(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric** – **2.6.2** 

## 2.6.2 Attainment of Programme Outcomes and Course Outcomes are evaluated by the Institution

2023-24

S.No	File Description
1	COs, POs and PSOs for all Programmes
2	CO - PO Mapping and Articulation Matrix
3	Direct Attainment of COs
4	Attainment Analysis of COs with POs and PSOs for PG- MBA Programme
5	Minutes of CDC and IQAC

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### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

**Metric – 2.6.1** 

**Criterion: II** 

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2.6.1

COURSE OUTCOMES FOR ALL PROGRAMMES



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#### **Course Outcomes of all Courses**

	English						
Seme ster	Course Code	Course Name		Course Outcomes			
			CO1	Apply grammatical rules and become proficient in the use of English			
			CO2	Outline and interpret the critical ideas, values and themes of different writers of different genres.			
		A Course in	CO3	Gain articulating the right sounds and intonation of English			
I	EHG1SK	Communication and Soft Skills	CO4	Demonstrate with the practical, emotional, intellectual and creative aspects of language by integrating knowledge and skill.			
			CO5	Functions on understanding ideas for yourself, applying knowledge to new situations and using novel examples to explain a concept.			
	ENG2SK	A Course in Communication and Soft Skills	CO1	Apply grammatical rules and become proficient in the use of English			
			CO2	Outline and interpret the critical ideas, values and themes of different writers of different genres.			
			CO3	Gain articulating the right sounds and intonation of English			
II			CO4	Demonstrate with the practical, emotional, intellectual and creative aspects of language by integrating knowledge and skill.			
			CO5	Functions on understanding ideas for yourself, applying knowledge to new situations and using novel examples to explain a concept.			
			CO1	Apply grammatical rules and become proficient in the use of English			
		A Course in Communication and Soft Skills	CO2	Outline and interpret the critical ideas, values and themes of different writers of different genres.			
III	ENG3S		CO3	Gain articulating the right sounds and intonation of English			
			CO4	Demonstrate with the practical, emotional, intellectual and creative aspects of language by integrating knowledge and skill.			
				meganing knowledge and skill.			



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			CO5	Functions on understanding ideas for yourself, applying knowledge to new situations and using novel examples to explain a concept.
			Sansl	crit
			CO1	इतिहासस्य प्रसस्त्यम् जानन्ति । नित्य नूतन धर्मानुसरणन्ति । नैतिका मूल्यान् अधिगचन्ति ।
•	1105.1	Poetry, Prose,	CO2	मानाव धर्मान्,  सामाजिका परिणामान् अधिगचन्ति ।
1	1105-1	Grammar Sanskrit-I	CO3	नीतिकथां द्वारा मानाव विचक्षणा ग्नानं अधिगम्यन्ते।
			CO4	भाषा परिग्नानम् अधिगचन्ति ।
			CO1	वामसगौरव रक्षणं, नायकत्वलक्षणं आध्यात्मिकमूल्यान् विद्यार्धिनाह अधिगम्यन्ते।
II	1105-2	Poetry, Prose, Grammar	CO2	इथिहासानं प्रआसस्त्यं, युवकानं परिणामक्रमे व्यक्तित्व विकासं विद्यार्धिनः अभिजानन्ति ।
		Sanskrit-II	CO3	धर्मिक मूल्यान्, राजाधर्मान्, धात्रुत्व भवान् विद्यार्द्थिना अवलम्बन्ति ।
			CO4	भाषा परिग्नानं अभिजानन्ति।
		Poetry, Prose, Grammar Sanskrit-III	CO1	नैतिका मूल्यान्, धर्मीक चिन्तनं गणनं लभते। प्राचीन नाटका विषाये ग्नान सम्पादनं।
			CO2	आत्मविश्वासं, व्याक्तिगतसमर्द्यं महत्वां ग्नायते ।
III	1105-3		CO3	आत्मविश्वासं, व्याक्तिगतसमर्द्यं महत्वां ग्नायते ।
			CO4	सातिविका भावान् ग्नान सम्पादनं ।
			CO5	प्राचीन सास्त्रकारणं परिचयः ग्नायते ।
			Telu	gu
		1-3m & X	COI	ప్రాచీన తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను గుర్తిస్తారు. తెలుగు సాహిత్యంలో ఆదికవి నన్నయ కాలంనాటి భాషా సంస్కృతులను, ఇతిహాసకాలం నాటి రాజనీతి విషయాల పట్ల పరిజ్ఞానాన్ని సంపాదించగలరు.
I	1103-1K	్రపాచీన 3-1K తెలుగు కవిత్వం	CO2	శివకవుల కాలంనాటి మతపరిస్థితులను, భాషా విశేషాలను గ్రహిస్తారు. తెలుగు నుడికారం, సామెతలు, లోకోక్తులు మొదలైన భాషాంశాల పట్ల పరిజ్ఞానాన్ని పొందగలరు.
			СОЗ	తిక్కన భారతంనాటి మత, ధార్మిక పరిస్థితులను, తిక్కన కవితాశిల్పాన్ని, నాటకీయతను అవగాహన చేసుకోగలరు.



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			CO4	ఎఱ్ఱన సూక్తివైచి(తిని, ఇతిహాస కవిత్వంలోని విభిన్న రీతులపట్ల అభిరుచిని పొందగలరు. శ్రీనాథుని కాలం నాటి కవితావిశేషాలను, మొల్ల కవితా విశిష్టతను గుర్తించగలరు. తెలుగు పద్యం స్వరూప స్వభావాలను, సాహిత్యాభిరుచిని పెంపొందించుకుంటారు. [పాచీన కావ్య భాషలోని వ్యాకరణాంశాలను
			601	అధ్యయనం చేయడం ద్వారా భాషా సామర్థ్యాన్ని రచనల మెళకువలను గ్రహించగలరు. ఆంగ్లభాష ప్రభావం కారణంగా తెలుగులో వచ్చిన
			CO1	ఆధునిక సాహిత్యాన్ని, దాని విశిష్టతను గుర్తిస్తారు. సమకాలీన ఆధునిక సాహిత్య [పక్రియలైన వచన కవిత్వం, కథ, నవల, నాటకం, విమర్శల పై
п	1103-2k	ఆధునిక తెలుగు సాహిత్యం	CO3	అవగాహన పొందుతారు. భావకవిత, అభ్యుదయ కవితాలక్ష్యాలను గూర్చిన జూనాన్ని పొందుతారు. అస్తిత్వవాద ఉద్యమాలపుట్టుకను, ఆవశ్యకతను గుర్తిస్తారు.
	ನ-ಏ-ಅೈರ		CO4	కథాసాహిత్యం ద్వారా సామాజిక చైతన్యాన్ని పొందుతారు. సిద్ధాంతాల ద్వారా కాకుండా, వాస్తవ పరిస్థితులను తెలుసుకోవడం ద్వారా సిద్ధాంతాన్ని సమీక్షించగలరు.
		CO5	ఆధునిక తెలుగు కల్పనాసాహిత్యం ద్వారా సామాజిక, సాంస్కృతిక, రాజకీయ చైతన్యాన్ని పొందుతారు.	
			CO1	తెలుగు సాహిత్య అభ్యసన ద్వారా నేర్చుకున్న నైపుణ్యాలను, సృజనాత్మక నైపుణ్యాలుగా మార్ఫుకోగలరు.
III	2103-3k	సృజనాత్మక రచన	CO2	విద్యార్థులు భాషాతత్వాన్ని, భాష యొక్క ఆవశ్యకతను, భాష యొక్క ప్రాధాన్యాన్ని గుర్తిస్తారు. మనిషి వ్యక్తిగత జీవనానికి, సామాజికవ్యవస్థ పటిష్టతకు భాష ప్రధానమని తెలుసుకుంటారు. తెలుగుభాషలోని కీలకాంశాలైన 'వర్థం - పదం - వాక్యా'ల ప్రాధాన్యాన్ని గుర్తిస్తూ, వాగ్రూప- లిఖితరూప వ్యక్తీకరణ ద్వారా భాషానైపుణ్యాలను మెరుగుపరచుకోగలరు.
			CO3	భాషానైపుణ్యాలను అలవరచుకోవడంతో పాటు వినియో గించడం నేర్చుకుంటారు. రచనా, భాషణానైపుణ్యాలను సృజనాత్మక రూపంలో వ్యక్తీకరించ గలరు.



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			CO4	ప్రాచీన పద్యరచనతో పాటు ఆధునిక కవిత, కథ, వ్యాసం, మొదలైన సాహిత్య ప్రక్రియల నిర్మాణాలకు సంబంధించిన సిధ్ధాంత విషయాలను నేర్పడంతో పాటు వారిలో రచనా నైపుణ్యాలను పెంపొందించుకోగలరు. సృజన రంగం, ప్రసారమాధ్యమ రంగాల్లో ఉపాధి అవకాశాలను అందిపుచ్చుకోగలరు. అనువాద రంగంలో నైపుణ్యం సంపాదించగలరు.
			Mathen	natics
			CO1	Students can develop a solid understanding of the fundamental concepts of differential equations, including the definitions of differential equations, order, linearity, and solutions.
			CO2	Students can be able to convert non exact homogeneous equations to exact differential equations by using integrating factors.
I	UG-102	Differential Equations	CO3	Students were capable to analyse the methods of finding solutions of differential equations of the first order but not of the first degree.
			CO4	Students can solve higher-order linear differential equations, both homogeneous and non-homogeneous, with constant coefficients.
			CO5	Students can understand on the concepts and apply appropriate methods for solving differential equations.
		Three-Dimensional Analytical Solid Geometry	CO1	Students can be able to understand and analyse the concepts on planes.
	UG-102		CO2	Students may be able to understand and analyze the concepts on lines.
II			CO3	Students may be able to understand and analyze the concepts on sphere and cone
			CO4	Students can be able to understand and analyze the properties of planes, lines, spheres and cones.
			CO5	Students can be able to analyze the concepts and express the problems geometrically and then to get the solution
***	HC 102	Aboteo et al caber	CO1	Students can able to Basic concepts from abstract algebra, especially the notion of a group. Acquire the basic knowledge and structure of groups, subgroups and cyclic groups.
III	UG-102	Abstract algebra	CO2	Students can Get the significance of the notation of normal subgroups. Get the behaviour of permutations and operations on them.



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			CO3	Students can Study the homomorphisms and
				isomorphisms with applications.
			CO4	Students can able to Understand the Group theory
				and to prove the theorems.
			CO5	Students can able to Understand the applications of
			003	Numerical Analysis in various fields.
			CO1	Students can Get a clear idea about the real
				numbers and real valued functions.
				Students may Obtain the skills of analyzing the
			CO2	concepts and applying appropriate methods for
				testing convergence of a sequence or series.
IV	UG-102	Real Analysis	CO3	Students may able to Test the continuity and
				differentiability of the function
			CO4	Students can able to Test the Riemann integration of
				a function.
			CO5	Students can learn and know the geometrical
				interpretation of mean value theorems.
			G . 1	Students must understand the concepts of vector
		Linear Algebra	CO1	spaces, subspaces, basises, dimension and their
				properties
	UG-102		CO2	Students must understand the concepts of linear
				transformations and their properties
			СОЗ	Students must understand the concepts of
V				Characteristic equations, Characteristic Values &
				Vectors of square matrix and their properties
				Students must analyze and apply Cayley- Hamilton
			CO4	theorem to problems for finding the inverse of a
				matrix and higher powers of matrices without using routine methods
				Students must analyze and apply tensor analysis in
			CO5	some of the physics Related Formulas
				Students can able to Understand the subject of
			CO1	various numerical methods that are used to obtain
				approximate solutions
				Students can able to learn various finite difference
			CO2	concepts and interpolation methods.
				Students can able to analyze and Work out
VI	UG-102	Numerical Methods	CO3	numerical differentiation and integration whenever
V 1	00-102		003	and wherever routine methods are not applicable.
				Students can able to Find numerical solutions of
			CO4	ordinary differential equations by using various
				numerical methods.
				Students can able to Analyze and evaluate the
			CO5	accuracy of numerical methods
		l .	I	accuracy of numerical memous



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VII	UG-102	Special Functions	CO1 CO2 CO3	Students must understand the Beta and Gamma functions, their properties and relation between these two functions, understand the orthogonal properties of Chebyshev polynomials and recurrence relations.  Students must find power series solutions of ordinary differential equations.  Students must be able to solve Hermite equations and write the Hermite Polynomial of order (degree) n, also find the generating function for Hermite Polynomials, study the orthogonal properties of Hermite Polynomials and recurrence relations  Students must be able to solve Legendre equation and write the Legendre equation of the first kind, also find the generating function for the Legendre
			CO4	also find the generating function for the Legendre polynomial, Understand the orthogonal properties of Legendre polynomials
		CO5	Students must be able to solve Bessel equation and write the Bessel equation of the first kind of order n, also find the generating function for Bessel function and understand the orthogonal properties of Bessel equation.	
	VIC 100		CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.
VIII	UG-102	Project	CO2	Use different Statistical packages for graphical interface, data analysis and interpretation
			CO3 Phys	Write a systematic Statistical project report.
			CO1	Explain Newton's laws of motion and motion of variable mass system and its application to rocket
				motion and the concepts of impact parameter, scattering cross section.
I	PHY1SK	Mechanics, waves and oscillations	CO2	Apply the rotational kinematic relations, the principle and working of gyroscope and it applications and the processional motion of a freely rotating symmetric top.
			СОЗ	Interpret the general characteristics of central forces and the application of Kepler's laws to describe the motion of planets and satellite in circular orbit through the study of law of Gravitation.
			CO4	Examine phenomena of simple harmonic motion and the distinction between un damped, damped and forced oscillations and the concepts of resonance and quality factor with reference to damped harmonic oscillator.



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			CO5	Discuss the coupled oscillations and solve them to obtain normal modes of oscillation and their frequencies in simple mechanical systems.  Acquire the knowledge on Ultrasonic waves, their production and detection and their applications in different fields.
			CO1	Outline the operations of basic measuring instruments.
			CO2	Measure viscosity of liquid by the flow method and surface tension by capillary rise method.
	PHY1SK	Mechanics, Waves and Oscillations (Lab)	CO3	Apply the knowledge of Elastic constants to measure young's modulus of material of a rod by uniform bending methods.
			CO4	Verify the concept of acceleration due to gravity using simple pendulum by method of errors.
			CO5	Determine the rigidity modulus of material of a wire using torsional pendulum
			CO1	Explain the phenomenon of interference of light and its formation in (i) Lloyd's single mirror due to division of wave front and (ii) Thin films, Newton's rings and Michelson interferometer due to division of amplitude.
			CO2	Distinguish between Fresnel's diffraction and Fraunhoffer diffraction and observe the diffraction patterns in the case of single slit and the diffraction grating.
II	PHY2SK	Wave Optics	CO3	Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.
			CO4	Explain the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.
			CO5	Comprehend the basic principle of laser, the working of He-Ne laser and Ruby lasers and their applications in different fields.
			CO6	Explain about the different aberrations in lenses and discuss the methods of minimizing them.
	PHY2SK	Wave Optics (Lab)	CO1	Gain hands-on experience of using various optical instruments like spectrometer, polarimeter and making finer measurements of wavelength of light using Newton Rings experiment, diffraction grating etc.



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			CO2	Know the techniques involved in measuring the resolving power of telescope and dispersive power of the material of the prism.
			CO3	Be familiar with the determination of refractive index of liquid by Boy's method and the determination of thickness of a thin wire by wedge method.
			CO4	Determine the wavelength of diffraction grating- Minimum deviation method
			CO1	Explain the basic aspects of kinetic theory of gases, Maxwell-Boltzmanndistribution law, equipartition of energies, mean free path of molecular collisions and the transport phenomenon in ideal gases
			CO2	Describe on the basic concepts of thermodynamics, the first and the second lawof thermodynamics, the basic principles of refrigeration, the concept of entropy, the thermodynamic potentials and their physical interpretations.
			CO3	Explain the working of Carnot's ideal heat engine, Carnot cycle and its efficiency
Ш	PHY3SK	Heat and Thermodynamics	CO4	Develop critical understanding of concept of Thermodynamic potentials, the formulation of Maxwell's equations and its applications.
			CO5	Differentiate between principles and methods to produce low temperature and liquefyair and also understand the practical applications of substances at low temperatures.
			CO6	Examine the nature of black body radiations and the basic theories.
	PHY3SK Heat and Thermodynamics (Lab)		CO1	Determination of Stefan's constant
		Thermodynamics	CO2	Determination of coefficient of thermal conductivity
			CO3	Variation of thermo-emf of a thermocouple with temperature difference at its two junctions
			CO4	Calibration of a thermocouple and Specific heat of a liquid.
			CO1	Apply Gauss's law to get relations connecting dielectric parameters and their applications.
IV	PHY4SKA	Electricity, Magnetism & Electronics	CO2	Derive expressions for the magnetic field at a point due to current carrying conductors using Biot-Savart Law.
			CO3	Distinguish self and mutual inductance phenomena and their real -time applications
			CO4	Compute Maxwell's electromagnetic wave equations and their role in communications



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			CO5	Summarize the basic concepts of semiconductors
			CO1	and digital electronics and their applications  Describe the resonance condition in LCR series and
			COI	parallel circuits.  Study the variation of magnetic field along the axis
			CO2	of a circular coil carrying current using Stewart and
		Electricity,		Gee's apparatus.
	PHY4SKA	Magnetism & Electronics (Lab)	СОЗ	Summarize the operation of PN junction diode, Zener diode and a transistor and their V -I
			CO4	characteristics.  Verify De Morgan's Theorems, Half and Full
				Adders.  Summarize the basic concepts of semiconductors,
			CO5	and digital electronics and their applications
			CO1	Develop an understanding on the concepts of Atomic and Modern Physics, basicelementary
				quantum mechanics and nuclear physics.  Develop critical understanding of concept of Matter
		Modern physics	CO2	waves and Uncertainty principle
	PHY4SKB		CO3	Get familiarized with the principles of quantum mechanics and the formulation of Schrodinger wave equation and its applications & Examine the basic properties of nuclei, characteristics of Nuclear forces, salient features of Nuclear models and different nuclear radiation detectors.
			CO4	Classify Elementary particles based on their mass, charge, spin, half life and interaction.
IV			CO5	Get familiarized with the nano materials, their unique properties and applications.
			CO6	Increase the awareness and appreciation of superconductors and their practical applications
		Modern physics (Lab)	CO1	Determine Planck's constant from photocell characteristics.
			CO2	Verify inverse square law of light using photovoltaic cell
	PHY4SKB		СОЗ	Determine energy gap of a semiconductor using junction diode.
			CO4	Determine energy gap of a semiconductor using thermistor.
			CO5	Measure charge of an electron and e/m value of an electron by Thomson method.
			CO1	Identify various methods and techniques used to produce low temperatures in the Laboratory.
			CO2	Explain refrigeration and air conditioning.



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	PHY5SKC	Low Temperature Physics & Refrigeration	CO3 CO4 CO5	Demonstrate skills through hands on experience about refrigeration components and their accessories in a Refrigerator.  Describe the classification, properties of refrigerants and their effects on environment.  Outline the applications of Low Temperature Physics and refrigeration  List out, identify and handle equipment used in low
V	PHY5SKC	Low Temperature Physics & Refrigeration	CO2	temperature lab.  Describe the procedures of preparation of Freezing Mixtures.  Demonstrate skills on developing various Freezing mixtures and materials.
		(Lab)	CO4	Explain the various methodologies of creating very low temperatures.  Outline the applications of low temperature physics in day to day life.
			CO1	in day-to-day life.  Explain the sun's structure, forms of energy coming from the sun and its measurement.
	PHY5SKD	Solar Energy and Applications	CO2	Acquire a critical knowledge on the working of thermal and photovoltaic collectors.
			CO3	Demonstrate skills related to on solar cells and its applications.
			CO4	Explain testing procedures and fault analysis of thermal collectors and PV modules.
			CO5	Comprehend applications of thermal collectors and PV modules.
		Solar Energy and Applications (Lab)	CO1	List out and identify various components of solar thermal collectors and systems, solar photovoltaic modules and systems.
V			CO2	Learn the procedures for measurement of direct, global and diffuse solar radiation. I-V characteristics and efficiency analysis of solar cells and modules.
	PHY5SKD		CO3	Demonstrate skills acquired in evaluating the performance of solar cell/ module in connecting them approximately to get required power output.
			CO4	Acquire skills in identification and elimination of the damaged panels without affecting the output power/array.
			CO5	Perform procedures and techniques related to general maintenance solar thermal and photovoltaic modules.



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VI		PROJECT	CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.  Use different Statistical packages for graphical interface, data analysis and interpretation
			CO3	Write a systematic Statistical project report.
			Statis	itics
			CO1	knowledge of Statistics and its scope and importance in various areas such as Medical, Engineering, Agricultural and Social Sciences etc.
			CO2	knowledge of various types of data, their organization and evaluation of summary measures such as measures of central tendency and dispersion etc.
	UG-102	Descriptive Statistics	СОЗ	knowledge of other types of data reflecting quality characteristics including concepts of independence and association between two attributes,
			CO4	Insights into preliminary exploration of different types of data.
			CO5	Knowledge of correlation, regression analysis, regression diagnostics, partial and multiple correlations.
I	UG-102	Descriptive Statistics - Practicals	CO1	Interpret Graphical and Diagrammatic data presentation which makes it easier for a common man to understand the given data.
			CO2	Determine Various measures of Central Tendency and Dispersion and interpret the results.
			CO3	Interpret problem solving skills using Moments
			CO4	Apply the Karl Pearson's coefficient of Skewness and Bowley's Coefficient of Skewness for the given data and compare the results.
			CO5	Apply the Curve fitting Methods to analyze the given Bivariate data.
			CO6	To Apply and Solve the given Bivariate data using Correlation and Regression methods.
			CO7	Apply association and Contingency Techniques for Qualitative data using Attributes and compare the results
			CO1	Ability to distinguish between random and non-random experiments,
II	UG-102	Probability Theory and Distributions	CO2	Knowledge to conceptualize the probabilities of events including frequentist and axiomatic approach. Simultaneously, they will learn the notion of conditional probability including the concept of Baye's Theorem.



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			CO5	Understand the basic terms used in design of experiments.
			CO6	Use appropriate experimental designs to analyze the experimental data.
		Sampling Tashniques	CO1	Design and Implement Surveys with the random sampling designs – Simple, Stratified and Systematic.
	UG-102	Sampling Techniques and Designs Of Experiments -	CO2	Compute and interpret the results of ANOVA and F-test.
		Practicals	СОЗ	Apply the Basic Designs of Experiments – CRD, RBD and LSD – to analyze real life situations.
			CO4	Demonstrate how to analyze and interpret the results of the full Factorial Designs.
			CO1	Time series data, its applications to various fields and components of time series.
		Applied Statistics	CO2	Fitting and plotting of various growth curves such as modified exponential, Gompertz and logistic curve and also Fitting of trend by Moving Average method.
	UG-102		СОЗ	Measurement of Seasonal Indices by Ratio-to- Trend, Ratio-to-Moving Average and Link Relative methods.
			CO4	Interpret and use a range of index numbers commonly used in the business sector.
V			CO5	Perform calculations involving simple and weighted index numbers.
			CO6	Measuring of consumer price index and perform calculations.
			CO7	Construction and implementation of life tables, Population growth curves, population estimates and projections.
		Applied Statistics -	CO1	Apply various Trend methods to solve the different Time Series data in real life situations.
	HC 102		CO2	Discuss and Analyze the economy and Standard of living in different countries using Index Numbers.
	UG-102	Practicals	СОЗ	Interpret the Methods of predicting Birth and Death Rates.
			CO4	Construct the Life Tables for living beings from different age groups.
			CO1	To know the scope of Operations Research.
* 7*	110 100	Operations Research - I	CO2	To link the OR techniques with business environment and life sciences.
VI	UG-102		СОЗ	To convert real life problems into mathematical models.
			CO4	To find a solution to the problem in different cases.



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				To inculcate logical thinking to find a solution to
			CO5	the problem.
			CO1	To construct a linear programming problems to the given data.
			CO2	Apply Graphical Method, Simplex Method, Big-M method and Two-Phase Simplex Methods to solve Optimization Problems.
	UG-102	Operations Research  – I - Practicals	СОЗ	To determine IBFS and OS to the given Linear Programming Problems.
			CO4	Demonstrate how to apply the Principle of Duality to solve the Operations Research Problems.
			CO5	Interpret the Problems based on Post-Optimal Analysis.
			CO1	To solve the problems in logistics.
			CO2	To find a solution for the problems having space constraints
	UG-102	Operations Research – II	СОЗ	To minimize the total elapsed time in an industry by efficient allocation of jobs to the suitable persons.
		21000000000	CO4	To find a solution for an adequate usage of human resources
	UG-102	Operations Research – II - Practicals	CO5	To find the most plausible solutions in industries and agriculture when a random environment exists.
VII			CO1	Apply and analyze various types of Deterministic Models – Transportation Problem and Assignment Problem.
			CO2	Maximize the Profits or Minimize the Cost of and Industry by efficient allocation of Jobs to the suitable Persons.
			СОЗ	Minimise the Total elapsed time of the projects by using CPM and PERT Models.
			CO4	Solve and interpret the simple models of Game Theory.
			CO5	Demonstrate how to apply the Linear Programming Method for Solving the Games.
			CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.
VIII	UG-102	Project	CO2	Use different Statistical packages for graphical interface, data analysis and interpretation
			CO3	Write a systematic Statistical project report.
		1	Microbi	iology
I	MCB1SK	Introduction to microbiology and microbial Diversity	CO1	Explain the evolution of the microbiology field and the scientific discoveries relating to each field.



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			CO2	Summarize the techniques used to stain and observe the microorganisms under microscope
			CO3	Discuss the History, milestones of Microbiology
			CO4	Demonstrate different isolation, preservation techniques
			CO5	Analyse the Ultrastructure of Prokaryotic cell
			CO1	Demonstrate the basic instruments & their operation
			CO2	Examine the process of staining techniques
	MCB1SK	Introduction to microbiology and	CO3	Preparation of different types of culture media.
	WEDISK	microbiology and microbial Diversity	CO4	Isolation of bacteria by using pure culture techniques.
			CO5	Examine the Gram positive and Gram-negative Bacteria.
			CO1	Evaluate the roles of different biomolecules in a microbial cell
	MCB2SK	Microbial physiology and Biochemistry	CO2	Analysis the Biomolecule separation techniques: chromatography, gel electrophoresis, spectrophotometry
			СОЗ	Illustrate, differentiate and contrast between the structures of DNA and also discuss the DNA replication process
			CO4	Explain the different metabolic pathways used by the microorganisms
II			CO5	Describe the properties, structure, function of enzymes
		Missalia Interial	CO1	Qualitative Analysis of Carbohydrates & amino acids
			CO2	Estimation of DNA & RNA by diphenyl & oricinol method
	MCB2SK	Microbial physiology and Biochemistry	CO3	Estimation of reducing sugar- anthrone method
			CO4	Determination of Pk & Pi activity of amino acids
			CO5	Demonstration of immobilization of enzyme activity
			CO1	Differentiate between different types pathogenic organisms, and explain in details pathogenicity, diagnosis of pathogenic organisms
III	MCB3SK	Medical Microbiology and immunology	CO2	Interpret the possible suggested preventive and treatment methods
			CO3	Explain various chemotherapeutic agents and their mode of actions and general account of various communicable diseases and their preventive methods



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			CO4	Illustrate the basic concepts of different types of immunity and different cells and organs involved in combating pathogens
			CO5	Demonstrate the different types of antigen-antibody interactions and their application in diagnosing different infections
			CO1	Identification of human blood groups
		Medical	CO2	Estimation of blood haemoglobin
	MCB3SK	Microbiology and immunology	CO3	Demonstration on separation on serum from blood sample
		63	CO4	Isolation and identify the bacterial floral by skin swab method
			CO5	Analyze the antibiotic resistance
			CO1	Summarize the importance of industrially used microbes and screening techniques used, various methods stain improvement for microbial products
		Industrial Microbiology	CO2	Demonstrate the various types of fermentation process design of fermenter
	MCB4SKA		CO3	Apply the industrial micro-organisms involved in various industries
			CO4	Analyze the given pharmaceutical products for its sterility, Microbiological determine the potency of the products like antibiotics and vitamins
IV			CO5	Explain the importance of sterilization in Fermentation process and deferent sterilization methods`
			CO1	Formulate the Production of ethanol
			CO2	Isolation of amylase producing microorganisms from soil
	MCB4SKAP	Industrial Microbiology	CO3	Estimation of ethanol
			CO4	Demonstration of Fermentor
			CO5	Analyze the growth curve of industrially microorganisms
			CO1	Design experiments to perform DNA & RNA as Genetic material
IV		Molecular Biology & Microbial Genetics	CO2	Summarize the chemical reactions leading to DNA damage
I V	MCB4SKB		СОЗ	Determine the modes of genetic recombination in bacteria
			CO4	Explain the Structure, regulation of Lacoperon with gene expression in bacteria



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			CO5	Discuss the concept of Molecular biology types of RNA & protein synthesis in prokaryotes & Eukaryotes
			CO1	Demonstrate the different types of DNA & RNA  Isolation & Identify the genomic DNA from E.coli
	MCD4CKD	Molecular Biology &	CO2	Estimation of DNA using UV spectrophotometer
	MCB4SKB	Microbial Genetics	CO3	Detect the Mutations in bacteria by UV light
			CO4	
			CO5	Analyse the proteins by Gel Electrophoresis
			CO1	Explain the parameters that induce spoilage and process of intoxication in food borne diseases
			CO2	Analysis the Methods of food preservation
	MCB5SKA	Food agricultural & environmental	СОЗ	Develop knowledge on Role of microorganisms in production of fermented foods and probiotics
		microbiology	CO4	Apply Skills in isolation of <i>Rhizobium</i> & other microflora from rhizosphere & rhizoplane
V			CO5	Outlines of Role of microorganisms in degradation of solid/liquid wastes
	MCB5SKAP	Food agricultural & environmental microbiology	CO1	Isolate & identify of bacteria and fungi from spoiled fruits & vegetables
			CO2	Determination of microbiological quality of milk sample by MBRT
			СОЗ	Identification of Rhizosphere microflora from the soil
			CO4	Analysis of potable water presumptive, confirmed, completed test by MPN method
			CO5	Study of air flora by Petri plate exposure method
		Management of human microbial disease and diagnosis	CO1	Illustrate the data obtained from biochemical analyses of samples such as whole blood, serum, urine etc. with clinical symptoms and possible pathologies
V	MCB5SKB		CO2	Apply the Methods & transport of clinical samples to Laboratory, storage
·	WEDSKD		СОЗ	Analyse the infected blood samples by using Gram Staining procedures
			CO4	Demonstrate different types of antigen-antibody interactions and their application in diagnosing different infections
			CO5	Determine the Drug Resistance in Bacteria



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			CO1	Examine the clinical samples of Urine, puss,
	Management of	CO2	Demonstration of permanent slides of different parasites	
	MCB5SKBP	human microbial	CO3	Estimation of Haemoglobin
		disease and diagnosis	CO4	Determination of ESR & PCV
			CO5	Isolate & identify the bacteria in pure culture
			CO1	Explore career alternative prior to graduation.
VI		Project	CO2	Develop work habits and attitudes necessary for job success.
			CO3	Assess interests and abilities in their field of study.
		I	Biotechi	ıology
			CO1	Explain the basics structure, properties and functions of bio molecules.
			CO2	Identify the properties of bio molecules using bio analytical techniques.
	BTY1SK	Bio molecules and analytical techniques	CO3	Demonstrate the working principals, and applications of different separation technique especially chromatographic, electrophoretic and centrifugation techniques.
I			CO4	Apply various analytical technique and using them in research area.
			CO5	Analyse the applications and limitations of different bio statistical methods
	BTY1SKP	Bio molecules and analytical techniques- Lab	CO1	Acquire knowledge in qualitative/quantitative estimation of Biomolecules
			CO2	Assay of protease activity
			СОЗ	Separation of molecules by chromatography/ electrophoresis
			CO4	Estimation of nucleic acids DNA, RNA
			CO5	Find values of mean, median mode
			CO1	Discuss the concepts of microbiology, cell and molecular biology
		Microbiology Cell & Molecular biology	CO2	Distinguish between different types of microbes, classification and their characterizations
II	BTY2SK		СОЗ	Explain structure and function of prokaryotic and eukaryotic cell organelles, cell Division.
			CO4	Summarize the basics of molecular biology including DNA replication, transcription, translation and regulation of gene expression
			CO5	Analyse the functional aspects of the cell at molecular level.



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	BTY4SKB	Environmental& Industrial biotechnology	CO1	Explain about environmental pollution- sources, effects and control Measures of environmental pollution
			CO2	Demonstrate the treatment of wastewater and solid waste management
			CO3	Find the basic concept and issues of environmental pollution biotechnological treatment to clean up polluted environments and to create valuable resources for the human society.
IV			CO4	Illustrate knowledge about applications of Vermicomposting
			CO5	Summarize The use of bio fertilizer and to train the students for self-Employment.
			CO1	Determine the purity of potable water
		Environmental&	CO2	Measure the hardness & alkalinity of water sample
	BTY4SKBP	Industrial	CO3	Identify microorganisms from soil
		biotechnology -Lab	CO4	Formulate the production of alcohol
			CO5	Estimate of citric acid
		Apiculture	CO1	Discuss the basic concepts of Apiculture
	BTY5SKE		CO2	Classify the different species and races of honey bees.
			CO3	Find the importance of health and hygiene in Bee keeping
			CO4	Find the importance of health and hygiene in Bee keeping
V			CO5	Determine prospects of Api culture as self- employment venture.
			CO1	Demonstrate the maintain the Bees hives
			CO2	Perform the maintain bee boxes
	BTY5SKEP	Apiculture-Lab	CO3	Find the tools required in Bee keeping
			CO4	Determine the methodology of extraction honey
			CO5	Prepare the extraction of honey & Bee wax
			CO1	Explain the basic concepts of Pearl culture
V		Pearl culture	CO2	Apply the knowledge regarding the Anatomical and Physiological aspects of fresh water oysters.
	BTY5SKF		CO3	Develop the various types of implantation methods and pearl culture surgery techniques
			CO4	Assume skill on production of pearl and its marketing for economic gain
			CO5	Choose self-employment, prospects, of pearl industry.



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			CO1	Execute pearl culture activities
			CO2	Explain the techniques of surgical operations
	BTY5SKFP	Pearl culture -lab	CO3	Designed pearl culture techniques
			CO4	Develop of pearls & marketing of pearls
			CO5	Perform pearl harvesting
			CO1	Explore career alternative prior to graduation
VI		PROJECT	CO2	Develop work habits and attitudes necessary for job success
			CO3	Assess interests and abilities in their field of study
			Bota	nny
			CO1	Explain origin of life on the earth
			CO2	Illustrate diversity among the viruses and prokaryotic organisms and categorize them.
	BOT 1 SK	Fundamentals of microbes & non vascular plants	СОЗ	Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles.
			CO4	Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi
I			CO5	Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat.
	BOT 1 SK	Fundamentals of microbes & non vascular plants	CO1	Demonstrate the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears
			CO2	Observe and identify microbes and lower groups of plants on their own.
			CO3	Demonstrate the techniques of inoculation, preparation of media etc.
			CO4	4. Identify the material in the permanent slides etc.
			CO1	Classify and compare Pteridophytes and Gymnosperms based on their morphology, reproduction and life cycles
		Davis of 1	CO2	Justify evolutionary trends in tracheophytes to adapt for land habitat
II	BOT 2 SK	Basics of vascular plants Phyto	CO3	Explain the process of fossilization and compare the characteristics of the extinct and extant plants.
		geography	CO4	Critically understand various taxonomical aids for identification of Angiosperms
			CO5	CO5- Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families.
				recognize their families.



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			CO6	Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare.
			CO7	Locate different Phyto geographical regions of the world and India and can analyze their floristic wealth.
			CO1	Demonstrate the techniques of Section cutting, preparing slides, identifying of the material and drawing exact figures
			CO2	Compare and contrast the morphological. and reproductive features of vascular plants
	BOT 2 SK	Basics of vascular plants Phyto geography	CO3	Identify the local angiosperms of the families prescribed to their genus and species level and prepare herbarium
		geography	CO4	Exhibit skills of preparing slides, the given twigs in the lab and drawing figures of plant twigs, flowers and floral diagrams as they are
			CO5	Prepare and preserve specimens of local wild plants using herbarium techniques
		Anatomy Embryology of Angiosperms plant ecology & biodiversity	CO1	Understand on the organization of tissues and tissue systems in plants
	BOT 3 SK		CO2	Illustrate and interpret various aspects of embryology
			CO3	Discuss the basic concept of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities
			CO4	Appraise various qualitative and quantative parameters to study the population and community ecology
III			CO5	Correlate the importance of Biodiversity and consequences due to its loss
			CO6	Enlist the endemic /endangered flora and fauna from two biodiversity hotspots in India and assess strategies for their conservation
		Anatomy Embryology of Angiosperms plant ecology & biodiversity	CO1	Get familiarized with techniques of Section making, staining and microscopic study of vegetative, anatomical and reproductive structures of plants
	BOT 3 SK		CO2	Observe externally and under microscope, identify and draw exact diagrams of the material in the lab
			CO3	Demonstrate application of methods in plant ecology and conservation of biodiversity and communities of plants.
IV	BOT 4 SKA	Plant physiology &	CO1	Comprise the importance of water in plant life and mechanism for transport of water and solutes in plants
		Metabolism	CO2	Evaluate the role of minerals in plant nutrition and their deficiency symptoms



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			CO3	Interpret the role of enzymes in plant metabolism
			CO4	Critically understand the light reaction and carbon assimilation processes responsible for synthesis of food in plant
			CO5	Analyze the biochemical reactions in relation to Nitrogen and lipid metabolism
			CO6	Evaluate the physiological factors that regulate growth and development in plants
			CO7	Examine the role of light on flowering and explain physiology of plants under stress condition
	BOT 4 SKA	Plant physiology &	CO1	Conduct lab and field experiments pertaining to plant physiology that is biophysical and biochemical processes using related glassware, equipment, chemical and plant material.
	DOT 4 SKA	Metabolism	CO2	Estimate the quantities and qualitative expressions using experimental results and calculations.
			СОЗ	Demonstrate the factors responsible for growth and development in plants.
			CO1	Distinguish prokaryotic and eukaryotic cells and design the model of a cell.
	BOT 4 SKB	Cell biology, Genetics Plant breeding	CO2	Explain the organization of a eukaryotic chromosome and the structure of genetic material.
			СОЗ	Demonstrate techniques to observe the cell and its components under microscope.
			CO4	Discuss the basics of -genetics, its variations and interpret inheritance of traits in living beings
			CO5	Elucidate the role of extra- chromosomal genetic material for inheritance of characters
			CO6	Evaluate the structure, function and regulation of genetic material
IVB			CO7	Understand the application of principles and modern techniques in plant breeding.
			CO8	Explain the procedures of selection and hybridization for improvement of crops L2
	BOT 4 SKB	Cell biology, Genetics&Plant breeding	CO1	Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division.
			CO2	Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models.
			CO3	Solve the problems related to crosses and gene interactions
			CO4	Demonstrate plant breeding techniques such as emasculation and bagging.



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		Plant Tissue culture	CO1	comprise the basic knowledge and applications of plant tissue culture.
			CO2	Identify various facilities required to set up a plant tissue culture laboratory
	BOT 5 SKE		СОЗ	Acquire a critical knowledge on sterilization techniques related to plant Tissue culture
			CO4	Demonstrate skills of callus culture through hands on experiment.
VA			CO5	Understand the biotransformation technique for production of secondary metabolites.
			CO1	List out, identify &handle various equipment in plant tissue culture
			CO2	Learn the procedures of preparation of media
	BOT 5 SKE	Plant Tissue culture	СОЗ	Demonstrate skills on inoculation, establishing callus culture and micro propagation
			CO4	Acquire skills in observing and measuring callus growth
			CO5	Perform some techniques related to plant transformation for secondary metabolite production
	BOT 5 SKF	Mushroom Cultivation	CO1	Understand the structure and life of a mushroom and discriminate edible and poisonous mushrooms.
			CO2	Identify the basic infrastructure to establish a mushroom culture unit.
			СОЗ	Demonstrate skills preparation of compost and spawn.
			CO4	Acquire a critical knowledge on cultivation of some edible mushrooms
VB			CO5	Explain the methods of storage, preparation of value-added products and marketing.
			CO1	Identify and discriminate different mushrooms based on morphology
	BOT 5 SKF	Mushroom	CO2	Understand facilities required for mushroom cultivation
	DOL 2 SIM	Cultivation	СОЗ	Demonstrate skills on preparation of spawn, compost and casing material
			CO4	Exhibit various skills on various cultivation practices for an edible mushroom.
			CO1	Explore career alternative prior to graduation
			CO2	Develop work habits and attitudes necessary for job success
VIII		PROJECT	CO3	Assess interests and abilities in their field of study



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			Chemi	istry
			CO1	Explain the evolution of the various definitions,
				concepts related to p-block elements.
			CO2	Summarize the insulators, conductors and semiconductors.
		Inorganic and	CO3	Discuss about applications of distribution law for
	CHE1S	physical chemistry	CO3	various ideal and true solutions.
		physical ellellistry	604	Demonstrate the experimental skills using common
			CO4	effect and solubility product principles in qualitative analysis.
I			607	Analyse the experimental methods for determining
			CO5	molar mass of non-volatile solute.
			601	Understand the basic concepts of qualitative
			CO1	analysis of inorganic mixtures like common ion effect & solubility products
	CHE1Sp &	Qualitative &	CO2	Use glassware, equipment & chemicals
	1312-1	Inorganic analysis		Follow experimental procedures in the laboratories
			CO3	
			CO4	Apply the concepts related to qualitative analysis of double salt mixture & report
			001	Recapitulate the conformations of alkane and
	CHE2SK	Organic and general chemistry	CO1	cycloalkanes
			CO2	Analyze the electrophilic and nucleophilic addition
				mechanism of alkenes and alkynes Illustrate aromaticity and huckells rule for
			CO3	benzenoid and non-benzenoid substance
			CO4	Discover projects on colloidal substance and use
				adsorption principles
II			CO5	Apply concepts of stereochemistry of carbon compounds
			CO1	Use glassware, equipment & chemicals
			CO2	Follow experimental procedures in the laboratories
	CHE2SP K		CO2	1
	& 1312-2K	Volumetric	CO3	Understand & explain volumetric analysis based on fundamental concept of ionic equllibria
	& 1312-2K	analysis	CO4	Identify & learn the concepts of primary &
			CO4	secondary standard solutions
			CO5	Falicatate the learner to make standard solution of various molar solutions & differentiate them
			C C :	Identification of alcohols, phenols and their
			CO1	reactivity
III	CHE3SK	Organic chemistry	CO2	Apply the synthetic application of carbonyl
		and Spectroscopy		compounds Illustrate reactions involving H, OH And COH
			CO3	groups in carboxylic acids and their derivatives
	<u> </u>	<u> </u>	1	6



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			CO4	Explain selection rules of vibrational and rotational spectroscopy for bond properties of organic compounds
			CO5	Apply IR spectral analysis of different functional groups.
			CO1	Use glassware, equipment & chemicals
			CO2	Follow experimental procedures in the laboratories
	CHE3SK	Organic preparation	СОЗ	Engage in safe laboratory practices by handling laboratory equipment & chemical reagents appropriately
	& 2312-3K	& IR spectral analysis	CO4	Eliminate chemicals in a safe & responsible manner
			CO5	Perform laboratory techniques including reflux, distillation, recrystallisation & vaccum filtrations
			CO6	Create & carry out workup & separation procedures
			CO7	Critically evaluate data collected & determine the purity & percent yield of products
			CO1	Explain the preparation &reactions of organometallic compounds and job opportunities in petroleum industries
			CO2	Classification of carbohydrates determination of structure of glucose and fructose
	CHE4SKA	Inorganic, organic and physical	СОЗ	Explain the synthesis of proteins and its employability in food corporation of India
	CHEASICI	chemistry	CO4	Distinguish nitro hydrocarbons and undertake project work in pharmaceutical companies and industries
IVA			CO5	Interpret concepts of thermodynamics and photochemistry & explore job opportunities in public &private sectors of energy resources & oceanography (aquaculture)
			CO1	Use glassware, equipment & chemicals
			CO2	Follow experimental procedures in the laboratories
	CHE4SP KA		СОЗ	Determine melting & boiling points of organic compounds
	& 2312-41K	Organic qualitative analysis	CO4	Understand concepts of different organic reactions
	2312-71IX	unarysis	CO5	Apply the concept of organic reactions In the given compound & identify & report given organic substances
		Inorganic & physical	CO1	Recall theories of coordination compounds
IVB	CHE4SKB	chemistry	CO2	Identify bioinorganic compounds & apply in study of macromolecules like haemoglobin & chlorophyll



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				Apply the concept of phase rule & develop problem
			CO3	solving skills for different component systems &
				freezing mixtures
			CO4	Explain effects of dilutions & conductances &
				relate applications of electrochemical sciences
				Critically understand the kinetics of chemical
			CO5	reactions and impact of environmental factors on
				concept of enzyme catalysis able for lifelong
				learning in diagnostic laboratories
			CO1	Use glassware, equipment & chemicals
		Conductometry &	CO2	Follow experimental procedures in the laboratories
	CHE4SPKB &	potentiometric tightremetry	CO3	Apply concept of electrochemistry in experiments
	2312-42K	ugnuemeny	CO4	Demonstrate electroanalytical methods & techniques
			CO5	Create the ability measuring the potential in electrochemical cell containing analyte
			CO1	Distinguish types of pollution, its causes & its preventive measures
			602	Explore factors for photochemical smog & ozone
			CO2	layer depletion
				Identify the hazards of water pollution & factors of
	CHE5SKG	Environmental	CO3	COD & BOD & Enrich with knowledge for career
	CHESSIC	chemistry		opportunities in water treatment plants
				Analyze the occurrence of Heavy metals &
			CO4	chemicals toxicology & treatment in living
				organisms
			CO5	Create An Awareness on Environment in Different
				Ecosystems & Sustainability of Biodiversity
V			CO1	Use glassware, equipment & chemicals
			CO2	Follow experimental procedures in the laboratories
			CO3	Understand & explain the volumetric analysis based
				on fundamental concepts learnt in ionic equilibria  Learn & identify the concepts of a standard
			CO4	solutions, primary & secondary standards
	CHE5SPKG			Facilitate the learner to make solutions of various
	&	Volumetric analysis		molar concentrations . this may include : the
	3312-57K	in a summer of the summer of t		concept of the mole; converting moles to grams;
			CO5	converting grams to moles; defining concentrations
				; dilution of solutions; making different molar
				concentrations
				Explain & apply theoretical knowledge of green
V	CHECOMA	Green chemistry	CO1	chemistry & interpret sonication method for green
	CHE5SKH			synthesis of organic reactions
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			CO2	Analyze supercritical CO2 & its applications, selection of solvents & create impact of green chemistry on environment & society  Undertake project work on green synthesis assisted
			СОЗ	by microwave & ultrasound techniques & explore jobs related to green chemistry in public & private sectors
			CO4	Explore the job opportunities by using green catalyse such as alumina, silica, enzymes etc
			CO5	Vertical mobility of concepts of nanotechnologies in green chemistry & application of nanomaterials and integrate this life long experience in jobs
			CO1	Use glassware, equipment & chemicals
			CO2	Follow experimental procedures in the laboratories
	CHE5SKH	Analysis of organic	CO3	Acquire knowledge on structural elucidation of
	& 3312-58K	compounds	CO4	organic compounds  Understand the various chromatography methods in separation & identification of organic compounds
			CO5	Demonstrare the knowledge gained in solvent extraction for seperatethe organic compounds
			CO1	Analyze & interpret and take appropriate decisions in solving real life problems using statistical tools
VI		Projects	CO2	Use different statistical packages for graphical interface, data analysis & interpretation
			CO3	Write a systematic project report.
		Co	mputer	Science
			CO1	Understand the basic terminology used in computer programming
		Problem solving in c	CO2	Write, compile and debug programs in Clanguage.
			CO3	Use different data types in a computer program
			CO4	Design programs involving decision structures, loops and functions
	C1		CO5	Understand the dynamics of memory by the use of pointers and Structures.
Ι			CO6	Apply different operations in File handling.
			CO1	Write, compile and debug programs in C language.
			CO1	The state of the s
			CO2	Implement different data types in a computer program
		Problem solving in c lab		Implement different data types in a computer program  Design programs involving decision structures, loops and functions
			CO2	Implement different data types in a computer program  Design programs involving decision structures,



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			CO1	Identify data structures suitable to solve problems
	C2		CO2	Developing algorithms
		Data Structures	CO3	Identifying the use of Time and Space Complexity.
II			CO4	Implementing different sorting & searching techniques.
			CO1	Implement data structures suitable for liner & non liner structures.
		Design a program on linear Data structures.		
			СОЗ	Write simple programs on different sorting & searching techniques.
			CO1	Gain knowledge of Database, DBMS and SQL
			CO2	Learn SQL as best analysis tool for extract data in different ways
		<b>D</b> . D	CO3	Create a small database using SQL.
	C2	Data Base Management System	CO4	Able to construct SQL queries to Store, Retrieve data in database
III	C3		CO5	Able to construct SQL queries to Store, Retrieve data in database  Model database using ER Diagrams and design database schemas based on the model  Create a small database using SQL.  Write commands on SQL queries to Store, Retrieve data in database  Draw the ER Diagrams and design database
		Data Base Management System lab	CO1	Create a small database using SQL.
			CO2	
			CO3	Draw the ER Diagrams and design database schemas based on the model
			CO1	Understand the concept and underlying principles of Object-Oriented Programming
			schemas based on the model Understand the concept and underlying principles of	
		Object Oriented Programming through	CO3	Develop problem-solving and programming skills using OOP concept
137	C4	Java	CO4	Understand the benefits of a well-structured program
IV			CO5	Develop the ability to solve real-world problems through software development in high-level programming language like Java
			CO6	Develop efficient Java applets and applications using OOP concept
		Object Oriented Programming	CO1	Develop problem-solving and programming skills using OOP concept
		Through Java lab	CO2	Design a well-structured program.



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			Develop the ability to solve real-world problems			
		CO3	through software development in high-level			
		003	programming language like Java			
		CO4	Develop efficient Java applets and applications using OOP concept			
		CO1	Understand the main components and Structure of Operating System& their functions			
		CO2	Analyze various ways of Process Management & CPU Scheduling Algorithms			
	Operating System	CO3	Evaluate various device and resources like Memory, Time and CPU Management techniques in distributed systems.  Apply different methods for Preventing Deadlocks in a Computer System.			
C5		CO4				
		CO1	Design Process Management & CPU Scheduling Techniques.			
	Operating System lab	CO2	Write CPU Management techniques in distributed systems.			
		СОЗ	Apply different techniques for Preventing Deadlocks in a Computer System.			
C6	Web Interface Designing Technologies	CO1	To understand the web architecture and web services.			
		CO2	To practice latest web technologies and tools by conducting experiments			
		СОЗ	To design interactive web pages using HTML and Style sheets.			
		CO4	To study the framework and building blocks of Integrated Development Environment			
- 0		CO5	Integrated Development Environment  To provide solutions by identifying and formulating IT related problems.			
	W. I. I	CO1	To Write latest web technologies and tools by conducting experiments			
	Web Interface Designing Technologies lab	CO2	To design interactive web pages using HTML and Style sheets.			
		СОЗ	To framework and building blocks of Integrated Development Environment			
		CO1	To understand the web architecture and web services.			
C7	Web Application	CO2	To practice latest web technologies and tools by conducting experiments			
C/	designing With PHP &MySQL	СОЗ	To design interactive web pages using HTML and Style sheets.			
		CO4	To study the framework and building blocks of Integrated Development Environment			
	C6	C5  Operating System lab  Web Interface Designing Technologies  C6  Web Interface Designing Technologies lab  Web Application designing With PHP	CO1			



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	T	1		1
			CO1	Write a simple program in PHP
		Web Application designing With PHP	CO2	Write simple programs on handle and validate data using PHP
		&MySQL lab	CO3	Write programs to create dynamic &interactive web-based applications using PHP & MYSQL.
			CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.
VI		PROJECTS	CO2	Use different Statistical packages for graphical interface, data analysis and interpretation
			CO3	Write a systematic Statistical project report.
		B. Com (General	l & Co	mputer Applications)
			COL	Identify transactions and events that need to be
	BCO1S-1K	FUNDAMENTALS OF ACCOUNTING	CO1	recorded in the books of accounts
			CO2	Equip with the knowledge of accounting process
			CO3	and preparation of final accounts of sole trader.  Develop the skill of recording financial transactions
			COS	and preparation of reports in accordance with
I				GAAP.
			CO4	Analyse the difference between cash book and pass book in terms of balance and make reconciliation.
			CO5	Critically examine the balance sheets of a sole
				trader for different accounting periods
			CO6	Design new accounting formulas & principles for business organizations.
				business organizations.
			CO1	Understand different forms of business
				organizations.
			CO2	Comprehend the nature of Joint Stock Company and formalities
				to promote a Company
		Business	CO3	Describe the Social Responsibility of Business
I	BCO1S-2K	Organization and		towards the society.
		Management	CO4	Critically examine the various organizations of the business firms
			004	And judge the best among them
				Design and plant register business firm. Prepare
			CO5	different
				Documents to register a company at his own
			CO6	Articulate new models of business organizations.
I	BCO1S-3K		CO1	Understand the concept of business environment



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		Business	CO2	Define Internal and External elements affecting
		Environment		business environment.  Explain the economic trends and its effect on
			CO3	Government policies
			CO4	Critically examine the recent developments in economic and Business policies of the Government
			CO5	Evaluate and judge the best business policies in Indian business environment
			CO6	Develop the new ideas for creating good business environment
			CO1	Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.
			CO2	Analyze the accounting process and preparation of accounts In consignment and joint venture.
II	BCO2S-1K	Financial Accounting	СОЗ	Distinguish Joint Venture and Partnership and to learn the Methods of maintaining records under Joint Venture
			CO4	Determine the use full life and value of the depreciable assets And maintenance of Reserves in business entities
			CO5	Design an accounting system for models of Businesses a this own using the principles of existing accounting system
			CO1	Describe the nature of economics in dealing with the issues of scarcity of resources.
			CO2	Analyze supply and demand analysis and its impact on Consumer behaviour.
II	BCO2S-2K	Business Economics	СОЗ	Evaluate the factors, such as production and costs affecting Firms behaviour.
			CO4	Use economic analysis to evaluate controversial issues and policies.
			CO5	Apply economic models for managerial problems, identify their relationships, and formulate the decision-making tools to be applied for business.
II	BCO2S-3K	Banking Theory and Practice	CO1	Understand the basic concepts of banks and functions of commercial banks.



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			CO2	Demonstrate an awareness of law and practice in a banking context.
			CO3	Engage in critical analysis of the practice of banking law
			CO4	Organize information as it relates to the regulation of banking Products and services
			CO5	Critically examine the current scenario of Indian Banking system.
			CO1	Understand the concept of Non-profit organizations and its accounting process
			CO2	Comprehend the concept of single-entry system and Preparation of statement of affairs
III	BCO3S-1K	AdvancedAccounting	CO3	Familiarize with the legal formalities at the time of Dissolution of the firm
			CO4	Prepare financial statements for partnership firm on Dissolution of the firm.
			CO5	Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership
			CO1	Understand the importance of Statistics in real life
	BCO3S-2K	Business Statistics	CO2	Formulate complete, concise, and correct mathematical proofs.
III			CO3	Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques
			CO4	Build and assess data-based models
			CO5	Learn and apply the statistical tools in day life.
			CO1	Develop an idea about marketing and marketing environment.
			CO2	Understand the consumer behavior and market Segmentation process
III	BCO3S-3K	SS-3K Marketing	CO3	Comprehend the product life cycle and product line decisions.
			CO4	Know the process of packaging and labeling to attract the customers.
			CO5	Formulate new marketing strategies for a specific new product.



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III		Programming with C	CO1	Develop programming skills
		& C++	CO2	Declaration of variables and constants use of
				operators and expressions  Learn the syntax and semantics of programming
			CO3	language
			CO4	Be familiar with programming environment of C and C++
			CO5	Ability to work with textual information (characters and strings) & arrays.
			CO1	Understand the Accounting treatment of Share Capital and aware of process of bookbuilding
			CO2	Demonstrate the procedure for issue of bonus shares and buy back of shares.
IV	BCO4S-1K	Corporate Accounting	СОЗ	Comprehend the important provisions of Companies Act,2013andprepare final accounts of accompany with Adjustments.
			CO4	Participate in the preparation of consolidated accounts for a Corporate group
			CO5	Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.
			CO1	Understand various costing methods and management techniques.
	B( (1)/1S_ / K	CostandManagement Accounting	CO2	Apply Cost and Management accounting methods for both Manufacturing and service industry
IV			СОЗ	Prepare cost sheet, quotations, and tenders to organization For different works
			CO4	Analyze cost-volume-profit techniques to determine optimal Managerial decisions
			CO5	Compare and contrast the financial statements of firms and Interpret the results.
			CO1	Acquire the complete knowledge of the tax evasion, tax avoidance and tax planning.
IV	BCO4S-3K	Income Tax	CO2	Understand the provisions and compute income tax for various sources.
			CO3	Grasp amendments made from time to time in Finance Act.
			CO4	Compute total income and define tax complicacies and



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				structure.
			CO5	Prepare and File IT returns of individual at his own. Compare and contrast the financial statements of firms and interpret the results.
			CO1	Understand the legal environment of business and laws of business.
			CO2	Highlight the security aspects in the present cybercrime scenario.
			CO3	Apply basic legal knowledge to business transactions.
IV	BCO4S-4K	Business Law	CO4	Understand the various provisions of Company Law
			CO5	.Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations And legal issues
			CO6	Integrate concept of business law with foreign trade.
		Auditing	CO1	Understanding the meaning and necessity of audit in modern era
	BCO4S-5K		CO2	Comprehend the role of auditor in avoiding the corporate frauds.
			CO3	Identify the steps involved in performing audit process
IV			CO4	Determine the appropriate audit report for a given audit situation
			CO5	Apply auditing practices to different types of business entities.
			CO6	Plan an audit by considering concepts of evidence, risk and materiality
IV			CO1	Understand the role of a database management system in an organization
			CO2	Understand basic database concepts, including the an organization.
	Database Management system	СОЗ	Understand and successfully apply logical database design principles, including E-R Diagrams and database normalization.	
		CO4	To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing and implementing a DBMS.	



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			CO5	Understand Functional Dependency and Functional Decompostion.
			CO1	Understand the basic principles underlying the Indirect Taxation Statutes.
			CO2	Examine the method of tax credit. Input and Output Tax credit and Cross Utilization of Input Tax Credit
IV	BCO4S-6K	Goods and Service Taxes	CO3	Identify and analyze the procedural aspects under different Applicable statutes related to GST.
				Compute the assessable value of
			CO4	transactions related to goods and services for levy and determination of duty liability.
			CO5	Develop various GST Returns and reports for business
				Transactions in Tally Understand the nature and scope of management
			CO1	accounting and differentiate management
		Management counting And Practice		accounting, financial
	BCO6S-18A			Accounting and cost accounting.
VI			CO2	Compute ratios and draw inferences
			CO3	Analyze the performance of the organization by preparing
			CO4	Funds flow statement and cash flow statements  Prepare cash budget, fixed budget and flexible
				budget.
			CO1	Differentiate cost control, cost reduction concepts and identify effective techniques.
			CO2	Allocate over heads on the basis of Activity Based Costing
VI	BCO6S-19A	Cos tcontrol techniques	CO3	Evaluate techniques of cost audit and rules for cost record.
		1	CO4	Appraise the application of marginal costing techniques to evaluate performances, fix selling price, make or buy decisions
			CO1	Understand the Features of Life Insurance, schemes and policies and insurance companies in India
		I ifo incurance with	CO2	Analyze various schemes and policies related to Life Insurance sector
VI	BCO6S-20B	Life insurance with practice	CO3	Choose suitable insurance policy for given situation and
				Respective persons
			CO4	Acquire Insurance Agency skills and other administrative skills



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			CO5	Acquire skill of settlement of claims under various
			CO1	Circumstances  Understand the Features of General Insurance and Insurance Companies in India
			CO2	Analyze various schemes and policies related to General Insurance sector
VI	BCO6S-21B	General insurance Procedure and	CO3	Choose suitable insurance policy under Health, Fire, Motor, And Marine Insurances
		practice	CO4	Acquire General Insurance Agency skills and administrative skills
			CO5	Apply skill for settlement of claims under various circumstances
			CO1	.Analyze online Micro and Macro Environment
3.71	DCO(5.1(C	DIGITALMARKETI	CO2	Design and create website
VI	BCO6S-16C	NG	СОЗ	Discuss search engine marketing
			CO4	Create blogs, videos, and share
			CO1 CO2	Discuss the reasons for growth of service sector  Examine the marketing strategies of Banking Services, insurance and education services.
VI	BCO6S-17C	Service Marketing	CO3	Review conflict handling and customer Responses in services marketing
			CO4	Describe segmentation strategies in service marketing
			BC	
I	C1	Computer Fundamentals and Office Tools	CO1	Describe the usage of computers and why computers are essential components in business and society.
			CO2	Identify categories of programs, system software and applications. Organize and work with files and folders.
			CO3	Compose, format and edit a word document and working with macros
			CO4	Create work sheets and using various functions.
			CO5	Make presentations and inserting multimedia in them



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	C4	Data Structures	CO1	Identify data structures suitable to solve problems
		2.10	СОЗ	Skill to execute programs of various Numerical Methods and Statistical techniques for solving mathematical problems.
	С3-Р	Numerical and Statistical Methods- LAB	CO2	Ability to apply various statistical techniques such as Measures of Central Tendency and Dispersion
		Numerical and Statistical Methods	CO1	Skill to choose and apply appropriate numerical methods to obtain appropriate solutions to difficult mathematical problems.
			СОЗ	Skill to execute programs of various Numerical Methods and Statistical techniques for solving mathematical problems.
	С3		CO2	Ability to apply various statistical techniques such as Measures of Central Tendency and Dispersion
	C2-P	Programming in C- LAB	CO1	Skill to choose and apply appropriate numerical methods to obtain appropriate solutions to difficult mathematical problems.
			CO5	Apply different operations in File handling.
			CO4	Understand the dynamics of memory by the use of pointers and Structures.
			CO3	Design programs involving decision structures, loops and functions
			CO2	Use different data types in a computer program
			CO1	Write, compile and debug programs in C language.
			CO6	Apply different operations in File handling.
			CO5	Understand the dynamics of memory by the use of pointers and Structures.
	C2	Programming in C	CO4	Design programs involving decision structures,
			CO3	Use different data types in a computer program
			CO2	Write, compile and debug programs in Clanguage.
			CO3	them Understand the basic terminology used in computer
		Office Tools-LAB	602	working with macros  Make presentations and inserting multimedia in
	C1-P	Computer Fundamentals and	CO2	Compose, format and edit a word document and
			CO1	Compose, format and edit a word document and working with macros



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		•		
			CO2	Developing algorithms
			CO3	Identifying the use of Time and Space Complexity.
			CO4	Implementing different sorting & searching techniques.
			CO1	understand a systematic approach to organizing, writing and debugging C programs
		Data Structures	CO2	Ability to implement linear and non-linear data structure operations using C programs
	C4-P	LAB	СОЗ	Ability to solve problems implementing appropriate data structure
			CO4	Ability to implement sorting and searching algorithms using relevant data structures
II			CO1	Have Knowledge in evolution and foundations of OO Model and its elements
			CO2	Identify relationship between classes and objects
	C5 Object Oriented Analysis and Design	CO3	Know importance of classification and can identify classes and objects	
		CO4	Have basic knowledge of UML.	
			CO5	Knowledge in syntax and semantics of UML.
		Object Oriented Analysis and Design LAB	CO1	Model the Use case and Class diagrams for the given application.
	C5-P		CO2	Develop the sequence and collaboration diagrams for the given application.
		LAD	СОЗ	Build Activity diagram and State Chart diagrams for the given application
			CO1	Gain knowledge of Database, DBMS and SQL
			CO2	Learn SQL as best analysis tool for extract data in different ways
	C6	Data Base	CO3	Create a small database using SQL.
	Management System	CO4	Able to construct SQL queries to Store, Retrieve data in database	
			CO5	Model database using ER Diagrams and design database schemas based on the model
			CO1	Create a small database using SQL.
		Data Base Management System	CO2	Able to construct SQL queries to Store, Retrieve data in database
	C6-P	LAB	СОЗ	Model database using ER Diagrams and design database schemas based on the model



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	T	1		
	C7 Accounting and Financial Management	Accounting and	CO1	Company Setup &Configurations.
		CO2	Recording Financial Transactions	
		CO3	Financial Reports	
		Accounting and	CO1	Company Setup & Configurations.
	С7-Р	Financial	CO2	Recording Financial Transactions
	Management-LAB	CO3	Financial Reports	
			CO1	Understand the concept and underlying principles of Object-Oriented Programming
			CO2	Understand how object-oriented concepts are incorporated into the Java programming language
	C8	Object Oriented Programming through	CO3	Develop problem-solving and programming skills using OOP concept
		Java	CO4	Understand the benefits of a well-structured program
			CO5	Develop the ability to solve real-world problems through software development in high-level programming language like Java
			CO6	Develop efficient Java applets and applications using OOP concept
	C8-P	Object Oriented Programming through Java LAB	CO1	Develop problem-solving and programming skills using OOP concept
			CO2	Understand the benefits of a well structured program
			CO3	Develop the ability to solve real-world problems through software development in high-level programming language like Java
Ш			CO4	Develop efficient Java applets and applications using OOP concept
			CO1	Understand the main components and Structure of Operating System& their functions
	C0	Operating Systems	CO2	Analyze various ways of Process Management & CPU Scheduling Algorithms
	С9		СОЗ	Evaluate various device and resources like Memory, Time and CPU Management techniques in distributed systems.
			CO4	Apply different methods for Preventing Deadlocks in a Computer System.
	С9-Р	Operating Systems LAB	CO1	Experiment with Unix commands and shell programming



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			CO2	Build 'C' program for process and file system management using system calls
			СОЗ	Choose the best CPU scheduling algorithm for a given problem instance
			CO4	Develop algorithm for deadlock avoidance, detection and file allocation strategies
			CO1	Critically evaluate ongoing developments in law relating to information technologies.
			CO2	Display an understanding of how these developments relate to one another
	C10	Cyber Laws	CO3	Examine areas of doctrinal and political debate surrounding rules and theories
			CO4	Evaluate those rules and theories in terms of internal
			CO5	Oraw on the analysis and evaluation contained in
			CO1	primary and secondary sources  Extensive knowledge regarding jurisdictional issues in IT Act
			CO2	Various important national and international cyber laws.
	C10-P	Cyber Laws-LAB	CO3	Understands the scope of Cyber Law
			CO4	The students is able to understand the basic concept of International Technology
	C11	Data Mining and Data Ware Housing	CO1	Examine the types of the data to be mined and present a general classification of tasks and primitives to integrate a data mining system
			CO2	Apply preprocessing statistical methods for any given raw data
IV			СОЗ	Discover interesting patterns from large amounts of data to analyze and extract patterns to solve problems, make predictions of outcomes
			CO4	Comprehend the roles that data mining plays in various fields and manipulate different data mining techniques
			CO5	Select and apply proper data mining algorithms to build analytical applications
			CO6	Evaluate and implement a wide range of emerging and newly-adopted methodologies and technologies to facilitate the knowledge discovery.
			CO1	How to select data and technique for the mining
	C11 D	Data Mining and	CO2	How to use Algorithms for data mining
	C11-P	Data Ware Housing- LAB	CO3	How to analyze data
			CO4	How to compare techniques based on result



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			CO1	To understand the web architecture and web services.
			CO2	To practice latest web technologies and tools by conducting experiments
	C12	Web Programming	CO3	To design interactive web pages using HTML and Style sheets.
			CO4	To study the framework and building blocks of Integrated Development Environment
			CO5	To provide solutions by identifying and formulating IT related problems.
			CO1	To practice latest web technologies and tools by conducting experiments
	C12-P	Web Programming-	CO2	To design interactive web pages using HTML and Style sheets.
		LAB	CO3	To study the framework and building blocks of Integrated Development Environment
			CO4	To provide solutions by identifying and formulating IT related problems.
1	C13	Design of Object- Oriented Applications	CO1	Have Knowledge in micro and macroprocess
			CO2	Have Knowledge in management planning, quality assurance and metrics along with documentation of object-oriented development
			CO3	Have Knowledge in system architecture.
			CO4	Basic knowledge in AI and Data Acquisition
			CO5	Knowledge in applications of Object-Oriented Design
	C13-P	Design of Object-	CO1	Construct various UML models (including use case diagrams, class diagrams, interaction diagrams, state chart diagrams, activity diagrams, and implementation diagrams) using the appropriate notation.
	C13-F	Oriented Applications-LAB	CO2	Recognize the difference between various object relationships: inheritance, association, whole-part, and dependency relationships.
			CO3	Show the role and function of each UML model in developing object-oriented software.
	C14	Data Analytics Using R	CO1	Data-Visualization tools and techniques offer executives and other knowledge workers new approaches



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			Data visualization is a general term that describes
		CO2	any effort to help people understand the significance
			of data by placing it in a visual context.
		CO3	Patterns, trends and correlations that might go undetected in text-based data can be exposed and
		CO3	recognized easier with data visualization software
			It isn't just the attraction of the huge range of
			statistical analyses afforded by R that attracts data
		CO4	people to R. The language has also developed a rich
			ecosystem of charts, plots and visualizations over the years
			Data-Visualization tools and techniques offer
		CO1	executives and other knowledge workers new
			approaches
			Data visualization is a general term that describes
	Data Analytics Using R-LAB	CO2	any effort to help people understand the significance
			of data by placing it in a visual context.
C14-P			Patterns, trends and correlations that might go
		CO3	undetected in text-based data can be exposed and
			recognized easier with data visualization software
			It isn't just the attraction of the huge range of statistical analyses afforded by R that attracts data
		CO4	people to R. The language has also developed a rich
			ecosystem of charts, plots and visualizations over the
		years	
		CO1	Explore the basic concepts of software engineering
		CO2	Choose appropriate life cycle model for a project
C15	Object Oriented Software Engineering	CO3	Implement the phases of the traditional software development process
		CO4	Design various test cases for a software product
	CO5	Analyze different architectural views	
		CO1	Explore the basic concepts of software engineering
Object Oriented	CO2	Choose appropriate life cycle model for a project	
C15-P	Software Engineering-LAB	CO3	Implement the phases of the traditional software
	Linginicolling-LAD	CO4	development process  Design various test cases for a software product
	CO4	Design various test cases for a software product	



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		~~-	A 1 1:00 / 1:
		CO5	Analyze different architectural views
		CO1	Identify the characteristics of machine learning
		CO2	Summarize the Model building and evaluation approaches
SEC1	Machine Learning Using Python	СОЗ	Apply Bayesian learning and regression algorithms for real-world Problems.
	oomg i yenen	CO4	Apply supervised learning algorithms to solve the real-world Problems
		CO5	Apply unsupervised learning algorithms for the realworld data
		CO1	Identify the characteristics of machine learning
		CO2	Summarize the Model building and evaluation approaches
SEC-1P	Machine Learning Using Python-LAB	СОЗ	Apply Bayesian learning and regression algorithms for real-world Problems.
		CO4	Apply supervised learning algorithms to solve the real-world Problems
		CO5	Apply unsupervised learning algorithms for the realworld data
SEC2	Digital Imaging	CO1	Gain knowledge about Types of Graphics, Types of Objects, Types of video editing tools
		CO2	Show their skills in editing and altering photographs for through a basic understanding of the tool box.
		CO3	. Gain knowledge in using the layers
		CO4	Gain knowledge in using the selection tools, repair tools
		CO5	Gain knowledge in using selection tools, applying filters and can show their skills
	Digital Imaging-LAB	CO1	Gain knowledge about Types of Graphics, Types of Objects, Types of video editing tools
SEC 2D		CO2	Show their skills in editing and altering photographs for through a basic understanding of the tool box.
		CO3	. Gain knowledge in using the layers
		CO4	Gain knowledge in using the selection tools, repair tools
		CO5	Gain knowledge in using selection tools, applying filters and can show their skills
	SEC-1P	SEC-1P Machine Learning Using Python-LAB  SEC2 Digital Imaging	SEC1   Machine Learning Using Python   CO3



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			CO1	Understand the computer networks, networking tools and cyber security
		Cybor Sooyrity and	CO2	Learn about NIST Cyber Security Framework
	SEC3	Cyber Security and Malware Analysis	CO3	Understand the OWASP Vulnerabilities
			CO4	Implement various Malware analysis tools
			CO5	Understand about Information Technology act 2000
			CO1	Understand the computer networks, networking tools and cyber security
		Cyber Security and	CO2	Learn about NIST Cyber Security Framework
	SEC-3P	Malware Analysis-	CO3	Understand the OWASP Vulnerabilities
		LAB	CO4	Implement various Malware analysis tools
			CO5	Understand about Information Technology act 2000
		Internet Of Things	CO1	Able to understand various applications of IOT in real world and industry domain
	SEC4		CO2	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
			СОЗ	Able to understand building blocks of Internet of Things and characteristics.
			CO4	Able to design and develop IOT devices
		INTERNET OF	CO1	Able to understand various applications of IOT in real world and industry domain
	SEC-4P		CO2	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
	SEC-41	THINGS-LAB	СОЗ	Able to understand building blocks of Internet of Things and characteristics.
			CO4	Able to design and develop IOT devices
			CO1	Identify basic terms, tools and software related to android systems
			CO2	Describe components of IDE, understand features of android development tools
	SEC5	Mobile Application Development	CO3	Describe the layouts and controls
			CO4	Explain the significance of displays using the given view
			CO5	Explain the features of services and able to publish android Application



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			CO6	Developing interesting Android applications using MIT App Inventor
			CO1	Identify basic terms, tools and software related to android systems
		Morry	CO2	Describe components of IDE, understand features of android development tools
	GEG (P	MOBILE APPLICATION	CO3	Describe the layouts and controls
	SEC-5P	DEVELOPMENT- LAB	CO4	Explain the significance of displays using the given view
			CO5	Explain the features of services and able to publish android Application
			CO6	Developing interesting Android applications using MIT App Inventor
		CO1	Identify the computer peripherals, software and hardware devices	
	SEC6	PC HARDWARE AND NETWORKING	CO2	Describe the basics of networks and networking tools
			CO3	Describe the Network Addressing and sub-netting
			CO4	Explains the Networks protocols and management
			CO5	Identifies Basic Network administrator roles
			CO1	Identify the computer peripherals, software and hardware devices
		PC HARDWARE AND	CO2	Describe the basics of networks and networking tools
	SEC-6P	NETWORKING-	CO3	Describe the Network Addressing and sub-netting
		LAB	CO4	Explains the Networks protocols and management
			CO5	Identifies Basic Network administrator roles
			CO1	Gain knowledge about Types of Graphics, Types of Objects, Types of video editing tools
VI		Semester Internship	CO2	Gain knowledge in using selection tools, applying filters and can show their skills
			СОЗ	Show their skills in editing and altering photographs for through a basic understanding of the tool box.
			MC	A
I	MCA	MCA-101 Data Structures	CO1	Illustrate the implementation of linked lists and Recursion
		with C++	CO2	Analyse search algorithms and hashing technique



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			CO3	Apply Stacks and Queues for real world tasks
			CO4	Make use of trees and Graphs in solving Complex problems
			CO1	Understand the concept of array storage and examine the concept of row-major and column-major order.
	MCA	MCA-106 Data Structures Lab	CO2	List and illustrate the implementation of basic data structure using an array.
	WICA	Data Structures Lao	CO3	Compare various searching techniques using arrays.
			CO4	Use linear and non-linear data structures like stacks, queues, linked list, tree, etc.
			CO5	Design and formulate different sorting algorithms
			CO1	Explain about database, different operations, queries performed for management system problems
	MCA	MCA -102Database	CO2	Demonstrate the significance of ER-diagram in DBMS
		Management Systems	CO3	Make use of different normalizations for database size reduction and removal of redundancy
			CO4	Apply PL/SQL, SQL injection, procedures etc
	MCA		CO1	Get practical knowledge on designing and creating relational database systems
			CO2	Implement basic SQL DDL Queries
		MCA-107 Database	CO3	Implement basic SQL DML Queries
		Management Systems Lab	CO4	Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, view and embedded SQL.
			CO5	To design and implement database applications on their own.
		MCA- 103ProbabilityandSta tistics	CO1	Show confidence in manipulating and drawing conclusions from data and provide them with a critical frame work for evaluating study designs and results
	MCA		CO2	Explain the basic notions of probability laws and develop them to the stage where one can begin to use
			CO3	Explain the basic notions of probability laws and develop them to the stage where one can begin to use



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			CO4	Summarize the study of stochastic processes
			CO1	Explain what is an operating system and the role it plays
	MCA	MCA-104	CO2	Infer high level understanding of the structure of operating systems, applications, and the relationship between t hem
		Operating Systems	СОЗ	How to gather knowledge of the services provided by operating systems
			CO4	Compare the exposure to some details majors concepts.
			CO1	Explain the key concepts that are likely to be included in the design of any modern computer system
		MCA 107	CO2	Make use of the basic metrics by which new and existing computer systems may be evaluated
	MCA-105  MCA Computer  Organization	CO3	Outline the impact that languages, their compilers and underlying operating systems have on the design of computer systems	
			CO4	How to evaluate the impact that peripherals, their interconnection and underlying data operations have on the design of computer systems
			CO1	Describe software engineering layered technology and process framework
			CO2	Evaluate the different process models and choose the best model for their project
	MCA	MCA- 201SoftwareEngineer ing	CO3	Understand the different development practices and its advantages
	ing	CO4	Explain software testing approaches, software tactics and metrics for process and project domains	
			CO5	Analyse estimation techniques, quality management and formal methods
			CO1	Demonstrate understanding of modern version control tools.
	MCA- 202Programmingand Problem Solving Using Python	CO2	Exhibit facility with a Linux command line environment.	
		СОЗ	Demonstrate understanding of the role of testing in scientific computing, and Write unit tests in Python.	
	MCA		CO4	Use command line tools to write and edit code.
II			CO5	Develop publication-ready graphics from a dataset.



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MCA-206 Python Programming Lab  MCA-203 Computer Networks  MCA-204 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 MCA-207 Web Technologies Lab  MCA-207 MCA-207 MCA-207 Web Technologies Lab  MCA-207 MCA					
MCA-206 Python Programming Lab  MCA-207 Web Technologies  MCA-207 Web Technologies Lab  MCA-207				CO1	Write, test, and debug simple Python programs
MCA Python Programming Lab  CO3  Develop the Python programs step-wise by defin functions and calling them.  Develop the programs in basic C constructs  Read and write data from/to files in Python.  Analyse basic taxonomy and terminology of computer networking area.  CO2  Describe the configuration and design of a sinetwork  Explain about research areas and future inter research fields  CO4  Learn components and rules of communications  CO5  CO6  MCA-204  Web Technologies  MCA-204  Web Technologies  Lab  MCA-207  Web Technologies  Lab  MCA-207  Web Technologies  Lab  MCA-207  CO3  DemonstrateHTML5, CSS, Java Script coding web applications  Design creative websites using object-by scripting concepts  Learn to access data base through Java programs step-wise and JSP concept and apply concepts and create XML documents and Schema.  CO3  CO3  CO4  MCA-207  CO5  CO6  CO6  CO7  CO7  CO7  CO8  CO8  CO8  CO9  CO9  CO9  CO9  CO9			Python Programming	CO2	
MCA-204 Web Technologies  MCA-207 Web Technologies Lab  MCA  MCA-207 Web Technologies Lab  MCA  MCA-207 MCA-208 MCA-20		MCA		СОЗ	Develop the Python programs step-wise by defining functions and calling them.
MCA-203 Computer Networks  MCA-204 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 Web Technologies Lab  MCA-207 MCA-2				CO4	Develop the programs in basic C constructs
MCA-203 Computer Networks  MCA-203 Computer Networks  MCA-204 Web Technologies Lab  MCA-207 Web Technologies Lab  MCA-207 MCA-				CO5	Read and write data from/to files in Python.
MCA-203 Computer Networks  CO3 Computer Networks  CO4 Explain about research areas and future inter research fields  CO4 Learn components and rules of communications  CO5 Construct and implement layer protocols within environment  CO1 Explain the technologies used in web application  DemonstrateHTML5, CSS, Java Script coding web applications  Design creative websites using object-by scripting concepts  CO4 Learn to access data base through Java progratusing Java Data Base Connectivity (JDBC)  CO5 Create dynamic webpages, using Servlets and JS  List various tags in and use these, apply Cascaded style set to create web page.  CO2 Design and explain the basic concept of X and create XML documents and Schema.  COMPare Servlet and JSP concepts and apply concepts to create dynamic webpages by reduct the code complexity and store data in database.				CO1	Analyse basic taxonomy and terminology of the computer networking area.
MCA  Computer Networks  CO3  CO4  Learn components and rules of communications  CO5  CO5  CO6  CO7  CO7  CO7  CO7  CO7  CO7  Explain about research fields  CO4  Learn components and rules of communications within environment  CO7  CO7  Explain the technologies used in web application web applications  CO7  DemonstrateHTML5, CSS, Java Script coding web applications  Design creative websites using object-by scripting concepts  CO7  Learn to access data base through Java progratusing Java Data Base Connectivity (JDBC)  CO7  CO7  CO7  CO7  CO7  CO7  CO7  C				CO2	Describe the configuration and design of a small network
MCA-204 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 Web Technologies  MCA-207 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 Web Technologi		MCA		СОЗ	Explain about research areas and future internets research fields
MCA-204 Web Technologies  MCA-207 Web Technologies Lab  MCA  MCA-207 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 Web Technologies  MCA-207 Web Technologies Lab				CO4	Learn components and rules of communications
MCA-204 Web Technologies  MCA-207 Web Technologies  MCA-207 Web Technologies Lab  MCA-207 Web Technologies Lab  Design creative websites using object-be scripting concepts  Learn to access data base through Java progratusing Java Data Base Connectivity (JDBC)  CO5 Create dynamic webpages, using Servlets and JS  List various tags in and use these, apply Cascaded style is to create web page.  Design and explain the basic concept of X and create XML documents and Schema.  CO3 Compare Servlet and JSP concepts and apply concepts to create dynamic webpages by reduct the code complexity and store data in database.				CO5	Construct and implement layer protocols within an environment
MCA-204 Web Technologies  MCA-204 Web Technologies  CO3 Design creative websites using object-by scripting concepts  Learn to access data base through Java progratusing Java Data Base Connectivity (JDBC)  CO5 Create dynamic webpages, using Servlets and JS  List various tags in and use these, apply Cascaded style is to create web page.  CO2 Design and explain the basic concept of X and create XML documents and Schema.  CO3 CO3 CO3 CO3 CO4 CO5 CO5 CO6 CO6 CO7				CO1	Explain the technologies used in web applications.
Web Technologies  CO3 Scripting concepts  Learn to access data base through Java progratusing Java Data Base Connectivity (JDBC)  CO5 Create dynamic webpages, using Servlets and JS  List various tags in and use these, apply Cascaded style sto create web page.  CO2 Design and explain the basic concept of X and create XML documents and Schema.  CO3 CO3 CO3 CO3 CO4 CO5 Create dynamic webpages, using Servlets and JSP concepts and apply concepts to create dynamic webpages by reduction to concepts to create dynamic webpages and concepts to create dynamic webpages are concepts and concepts to create dynamic webpages are concepts and concepts to create dynamic webpages are concepts and concept		MCA		CO2	DemonstrateHTML5, CSS, Java Script coding for web applications
Web Technologies Lab  MCA-207 Web Technologies CO2  MCA  MCA  MCA  MCA  MCA  MCA  MCA  MC				СОЗ	
MCA-207 Web Technologies Lab  MCA  CO2  Design and explain the basic concept of X and create XML documents and Schema.  CO3  CO3  CO3  CO4  CO5  List various tags in and use these, apply Cascaded style is to create web page.  CO5  CO6  CO7  CO8  CO8  CO8  CO9  CO9  CO9  CO9  CO9				CO4	Learn to access data base through Java programs, using Java Data Base Connectivity (JDBC)
MCA-207 Web Technologies Lab  MCA  CO2  and use these, apply Cascaded style sto create web page.  CO2  Design and explain the basic concept of X and create XML documents and Schema.  Compare Servlet and JSP concepts and apply concepts to create dynamic webpages by reduct the code complexity and store data in database.				CO5	Create dynamic webpages, using Servlets and JSP
Web Technologies Lab  CO2 Design and explain the basic concept of X and create XML documents and Schema.  Compare Servlet and JSP concepts and apply concepts to create dynamic webpages by reductive code complexity and store data in database.			MCA 207	CO1	and use these, apply Cascaded style sheet
MCA CO3 concepts to create dynamic webpages by reductive code complexity and store data in database.		MCA	Web Technologies	CO2	Design and explain the basic concept of XML and create XML documents and Schema.
Explain usage of web servers and use				СОЗ	Compare Servlet and JSP concepts and <b>apply</b> JSP concepts to create dynamic webpages by reducing the code complexity and store data in database.
				CO4	<b>Explain</b> usage of web servers and <b>use</b> this to <b>develop</b> webpage and store data in database in JSP on Web server.
				CO5	appropriate method, technologies, framework, web



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			CO1	Understand the history, development and various applications of artificial intelligence
			CO2	Illustrate knowledge base system
	MCA	MCA-205	CO3	Solve different problems using AI algorithm
	Artificial Intelligence	CO4	Analyse how uncertainty is being tackled in the knowledge representation and reasoning process	
			CO5	Classify the expert systems
			CO1	Explain Data Ware house fundamentals, Data Mining Principles
			CO2	Demonstrate appropriate data mining algorithms to solve real world problems
	MCA	MCA-301 Data Mining and Big Data	СОЗ	Compare different data mining techniques like classification, prediction, clustering and association rule mining.
			CO4	Construct big data associated applications in intelligent business and scientific computing
			CO5	Infer fundamental enabling techniques and scalable algorithms like Hadoop, Map Reduce in big dataanalytics
	MCA	MCA -306 Data Mining and Big Data Lab	CO1	Understand and implement the basics of data structures like Linked list, stack, queue, set and map in Java.
Ш			CO2	Demonstrate the knowledge of big data analytics and implement different file management task in Hadoop.
			СОЗ	Understand Map Reduce Paradigm and develop data applications using variety of systems.
			CO4	Analyze and perform different operations on data using Pig Latin scripts.
			CO1	Find the factors driving the need for network security,
			CO2	Identify and classify particular examples of attacks,
	MCA	MCA-302 Cryptography and Network Security	СОЗ	Compare symmetric and a symmetric encryption system and their vulnerability to attacks
			CO4	Summarize the use of hash functions and explain the characteristics of one-way and collision-free functions
			CO5	Illustratetheeffectivenessofpasswordsinaccesscontro landtheinfluenceofhuman behaviour.



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			CO1	Discuss the basics of network security and cryptography.
	MCA	MCA- 307 Cryptography	CO2	Explain the various standards Symmetric Encryption algorithms used to provide confidentiality.
		&Network Security Lab	СОЗ	Explain the various standards Asymmetric Encryption algorithms to achieve authentication.
			CO4	Demonstrate encryption techniques to secure data in transit across network.
			CO1	Distinguish different types of Distributed Computing models and identify different cloud computing models and services provided by cloud providers.
		MCA-303	CO2	Demonstrate virtualization of clusters and data centres
	MCA	Cloud Computing	СОЗ	Apply and design Cloud Resource Management and scheduling algorithms
			CO4	Explain Storage models and security aspects of Cloud
			CO5	Illustrate Cloud Applications and Paradigms
	MCA-304 MCA Machine Learning		CO1	How to make a computer program learn from experience
		CO2	Illustrate the significance of concept learning	
			CO3	Representation of decisions and decision making explicitly
			CO4	Construct finite and infinite Hypothesis spaces for computational learning
			CO5	Apply Inductive and Analytical learning in developing learning tasks
		MCA-305.2  MCA  Open source Technologies	CO1	To implement PHP script using Decisions and Loops.
	MCA		CO2	To develop PHP applications using Strings, Arrays and Functions
	Meri		СОЗ	To design object-oriented programming (OOP) principals for PHP and use HTML form elements that work with any server-side Language.
IV	MCA	MCA – 401 Project Work	CO1	To Prepare abstract for given project by identifying the requirements and prospective solution.
			CO2	To Develop latest information related to the project from various sources to analyze the project.
			СОЗ	To Choose the materials for the project as per specifications and efficient test for developing the project.



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			CO4	To Illustrate effective team work after efficient testing, elaborate the completed task and compile the project.  To Prepare a good report of the project as per the guidelines and present to the panel of experts.
			N. D.	
			MB.	
			CO1	By the end of the course, students will be able to understand the basic concepts in Management-Levels, Skills, Role, Functions & Principles of Management.
			CO2	By the end of the course, students will be able to analyse the theoretical concepts - Forecasting – Techniques of Forecasting. Decision making, MBO.
	Dug 1 1 (D 22)	Management process	СОЗ	By the end of the course, students will be able to investigate the Functions & Responsibilities of Managers
	Bus1.1 (R22)		CO4	By the end of the course, students will be able to evaluate the role of managers in Business Environment of the organization-, key elements in Organizational Behaviour, Challenges & Opportunities for OB.
I			CO5	By the end of the course, students will be able to explain the principles of human behaviour in an organization through Communication, Motivation, Group Dynamics, Leadership & Organizational Design.
		Quantitative Techniques for Managerial decisions	CO1	By the end of the course, students will be able to understand various statistical andmathematical techniques for business decisions.
			CO2	By the end of the course, students will be able to analyse the benefits as well as thelimits of quantitative analysis in a real-world context.
	Bus1.2 (R22)		СОЗ	By the end of the course, students will be able to investigate the probabilistic distributions in solving problems.
			CO4	By the end of the course, students will be able to evaluate the hypothesis testing for large and small samples.
			CO5	By the end of the course, students will be able to explain the linear programming problems by



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			graphical and simplex methods.
		CO1	By the end of the course, students will be able to understand the Role and Responsibilities of Managerial Economist in decision making.
		CO2	By the end of the course, students will be able to analyse the Consumer Equilibrium under Ordinal and Cardinal Utility Theories- Indifference Curve Analysis - Income Substitution and Price Effects - Demand Analysis - Law of Demand
Bus1.3.2 (R22)	Managerial Economics	CO3	By the end of the course, students will be able to investigate the Total Product, Marginal and Average Product Curves, their derivation and interrelationships - The law of Diminishing Marginal Returns in Production
		CO4	By the end of the course, students will be able to evaluate the Pricing and output decisions of firm under different market structures - Perfect Competitions pure monopoly, Oligopoly
		CO5	By the end of the course, students will be able to explain the Pricing Practices of Firms
Bus1.4	Environment	CO1	By the end of the course, students will be able to understand how the economy isaffected by internal and external factors and how this in turn affects the business.
(R22)	Management	CO2	By the end of the course, students will be able to analyze the consumption affects onbusiness and economy.
		СОЗ	By the end of the course, students will be able to investigate the factors of the Economic, Political, Legal and Global environment of business.
		CO4	By the end of the course, students will be able to evaluate the Political and LegalEnvironment of Business.
		CO5	By the end of the course, students will be able to explain the Global Environment ofBusiness-Foreign collaborations in the Indian business, International economic institutions.
		CO1	By the end of the course, students will be able to understand the Business communication- essential elements of effective communication –



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			communication barriers – overcoming
			communication barriers.
			By the end of the course, students will be able to
		CO2	analyse the Media of Communication-: Verbal &
			non-verbal. Oral communication: Forms
Bus1.5 (R22)	Managerial Skill Development	G02	By the end of the course, students will be able to investigate the Channels of Communication- steps to
		CO3	improve the effectiveness of formal and informal communication – 7C's of Communication
			By the end of the course, students will be able to
		CO4	evaluate the Listening process importance in
			business communication
			By the end of the course, students will be able to
		CO5	explain the Procedure and guidelines for effective
			report writing & essential skills of negotiation.
			By the end of the course, students will be able to
		CO1	understand the Introduction to Accounting.
	Accounting for Managers		By the end of the course, students will be able to
		G 0 2	analyse the Preparation of Financial statements-
		CO2	Income statement and Balance sheet – Bank
Bus1.6 (R22)			Reconciliation Statement.
,			By the end of the course, students will be able to
		CO2	investigate the Analysis of Financial Statements
		CO3	Financial Ratio analysis – Funds Flow and Cash
			Flow Analysis.
		CO4	By the end of the course, students will be able to
			evaluate the Management Accounting.
			By the end of the course, students will be able to
		CO5	explain the Contemporary Developments in
			fundamental of accounting.
			By the end of the course, students will be able to
			understand the Basic Computer Architecture-Input
		CO1	Output devices- Storage devices-Hardware and
			software-Networks.
			By the end of the course, students will be able to
			analyse the Creation of Document- format
		CO2	document-Text Editing and saving-Organising
Bus1.7 (R22)	IT for Managers		information with tables and outlines- Mail merge.
` '		~~-	By the end of the course, students will be able to
		CO3	investigate the Use of templates and slide designs,
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				Slide master, Animation Timings, Action buttons, Rehearse Narration, Slideshow.
			CO4	By the end of the course, students will be able to evaluate the Data Types, Variables, Constants, Input / Output, Operators (Arithmetic, relational, logical, bitwise.
			CO5	By the end of the course, students will be able to explain the Security Threats and Attacks, Malicious Software, Hacking & Security Mechanisms.
			CO1	By the end of the course, students will be able to understand the Entrepreneurship-Characteristics-Entrepreneur Vs Intrapreneur- Management Vs Entrepreneurship
		Entrepreneurship Development	CO2	By the end of the course, students will be able to analyse the Steps in assessing business potential of an idea- Opportunity Recognition
	Bus 2.1 (R22)		CO3	By the end of the course, students will be able to investigate the Project preparationand Financing Ventures
II			CO 4	By the end of the course, students will be able to evaluate the Institutions SupportingSmall Business Enterprises
			CO5	By the end of the course, students will be able to explain the Build a StartupManagement Team.
			CO1	By the end of the course, students will be able to understand the Nature and Scope of Research Methodology
		Research	CO2	By the end of the course, students will be able to analyse the Qualitative andQuantitative Research
		Methodology & Business Analytics	СОЗ	By the end of the course, students will be able to investigate the Characteristics of a good sample, Types of sampling- Probability Sampling Types, On-Probability



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		CO5	By the end of the course, students will be able to
		CO4	By the end of the course, students will be able to evaluate the training needs and design
Bus2.4(R22)	Human Resource management	CO3	By the end of the course, students will be able to investigate the internal and external factors that impact human resource planning and Effective Coaching and Mentoring Skills
		CO2	By the end of the course, students will be able to analyse the various functions of HRM, such as recruitment, selection, training and development, performance management, compensation and benefits, and employee relations
		CO1	By the end of the course, students will be able to understand the concept and importance of Human Resource Management in organizations
		CO5	By the end of the course, students will be able to explain the principles of human behaviour in an organization through Communication, Motivation, Group Dynamics, and Leadership & Organizational Design.
Bus2.3 (R22)	Behaviour	CO4	By the end of the course, students will be able to evaluate the role of managers in Business Environment of the organization-, key elements in Organizational Behaviour, Challenges & Opportunities for OB.
Duc2 2 (D22)	Organizational	СОЗ	By the end of the course, students will be able to investigate the Functions & Responsibilities of Managers
		CO2	By the end of the course, students will be able to analyse the theoretical concepts - Forecasting – Techniques of Forecasting. Decision making, MBO.
		CO1	By the end of the course, students will be able to understand the basic concepts in Management-Levels, Skills, Role, and Functions & Principles of Management.
		CO5	By the end of the course, students will be able to explain Automated Data AnalysisUsing SPSS.
		CO4	By the end of the course, students will be able to evaluate Multivariate Data analysis



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			explain the concepts of Quality of Work Life (QWL)
			and Grievance handling Procedure
		CO1	By the end of the course, students will be able to understand the Financial Management and the goals
		CO1	of the firm
			By the end of the course, students will be able
		CO2	to Analyse Investment Decisions Traditional
		CO2	Techniques and Discounted Cash Flow Methods
			By the end of the course, students will be able to
Bus2.5(R22)	Financial	CO3	investigate the Capital Structure Theories – Net
	Management		Income approach – Net operating income approach
			By the end of the course, students will be able
		CO4	to evaluate Dividend Theories –Traditional position
			By the end of the course, students will be able to
		CO5	explain Concepts of working capital –Determinants
		003	of working capital – Optimum level of current assets
		~~4	By the end of the course, students will be able to
		CO1	understand the Concepts of Marketing; Marketing
			Management Tasks; Marketing Environment
		CO2	By the end of the course, students will be able to analyse Marketing Information System and
Bus2.6 (R22)	Marketing	CO2	analyse Marketing Information System and Marketing Research
	Management		By the end of the course, students will be able to
		CO3	investigate the Development of Marketing Offerings
		003	Strategy
			By the end of the course, students will be able
		CO4	to evaluate Pricing Strategies and Programs
			Networks – Channels of Distribution.
			By the end of the course, students will be able to
		CO5	explain the Designing and Managing Marketing
			Communications.
		CO1	By the end of the course, students will be able to
			understand the Evolution of Operations Management
			By the end of the course, students will be able to
			analyse the Location Decision Factors and Planning
		CO2	methods (Numerical); Layout planning – Planning
			and Principles of Layout, Classification of Plant
Dug 2.7 (D 22)	Production &		Layout
Bus2.7 (R22)	Operations Management	CO3	By the end of the course, students will be able to
	TVIGITUE CITICITE		investigate the Supply Chain Management –



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				Framework, principles, electronic supply chain
			CO4	management.  By the end of the course, students will be able to evaluate Inventory Management and Work study
			CO5	By the end of the course, students will be able to explain the Quality, Maintenance and Project Management.
			CO1	By the end of the course, students will be able to understand the Strategic Management
			CO2	By the end of the course, students will be able to analyse corporate, business and functional level strategy; Intended, Deliberate, Realized, Unrealized and Emergent strategies
	Bus3.1 (R22)	Strategic Management & Business Policy	СОЗ	By the end of the course, students will be able to investigate the Strategic tools for analysis and appraisal of External Environment
			CO4	By the end of the course, students will be able to evaluate strengths and weakness of a firm - Resource Based Theory of the firm
			CO5	By the end of the course, students will be able to explain the strategies for competitiveadvantage
III	Bus3.2 (R22)	DSS & MIS	CO1	By the end of the course, students will be able to understand the MIS operating infunctional areas of an organization.
			CO2	By the end of the course, students will be able to analyse the Decision Making Process – Relationship between Decision- Making and MIS.
			CO3	By the end of the course, students will be able to investigate the System Life Cycle Design - Prototype Approach - Detailed Study on Life Cycle System.
			CO4	By the end of the course, students will be able to evaluate the Decision Support System: Definitions
			CO5	By the end of the course, students will be able to explain the Database ManagementSystem.
	Bus3.3 (R22)	Business Ethes & Corporate Governance	CO1	By the end of the course, students will be able to understand the Meaning and definition of Ethics – Ethical Theories



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			CO2	By the end of the course, students will be able to analyse the Ethical corporate behavior – Ethical decision making – Conflicts in decision making from the legal and moral points ofview.  By the end of the course, students will be able to
			СОЗ	investigate the Corporate Social Responsibility activities
			CO4	By the end of the course, students will be able to evaluate the Meaning and definition of corporate governance – Corporate management structure for corporate governance
			CO5	By the end of the course, students will be able to explain the Corporate governance requirements in the ever changing global scenario. Global practices.
	Bus3.4F (R22)	International Financial Management	CO1	By the end of the course, students will be able to understand the Finance function in anInternational Context. Additional dimensions in achieving the wealth maximization goal
			CO2	By the end of the course, students will be able to analyse the Foreign Exchange Markets
			СОЗ	By the end of the course, students will be able to investigate the International CapitalMarkets
			CO4	By the end of the course, students will be able to evaluate the International CapitalStructure and Cost of Capital.
			CO5	By the end of the course, students will be able to explain the International Cash Management, techniques
	3.4 HR Management of Industrial Relations	_	CO1	By the end of the course, students will be able to understand the, Evolution and growth of Industrial Relations in India
			CO2	By the end of the course, students will be able to analyse Evaluation of Worker's Participation in Management, and Conditions for success of Worker's Participation in Management
			CO3	By the end of the course, students will be able to



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	. ,	,	CO3	By the end of the course, students will be able to investigate the Business Applications of Big Data
IV	Bus4.1 (R22)	Business Analytics	CO2	By the end of the course, students will be able to analyse the Business Analytics Cycle Information and Database Architecture and Data Gathering Process
			CO1	By the end of the course, students will be able to understand the Introduction to Business Analytics
			CO5	By the end of the course, students will be able to explain the Designing HRD model- Global Restrictions on certain Countries by the hiring Country
	3.5HR	& Development	CO4	by the end of the course, students will be able to evaluate the HRD managers in MNC
		Management Training	CO3	By the end of the course, students will be able
			CO2	By the end of the course, students will be able to analyse the Observing and Assessing HRD needs, Planning and Designing HRD Needs
			CO1	By the end of the course, students will be able to understand the HRD objectives and philosophy
			CO5	By the end of the course, students will be able to explain the Portfolio Evaluation & Revision.
	(R22) Investm		CO4	By the end of the course, students will be able to evaluate the Portfolio Return and Portfolio Risk
		Security Analysis & Investment Management	CO3	investigate the Approaches to Security Analysis: Fundamental Analysis
			CO2	By the end of the course, students will be able to analyse the Valuation of fixed incomeSecurities  By the end of the course, students will be able to
			CO1	By the end of the course, students will be able to understand the Investment Process
			CO5	By the end of the course, students will be able to explain the Labour laws in Fundamental Rights.
			CO4	By the end of the course, students will be able to evaluate Prevention and settlement of Industrial Disputes in India, Industrial Disputes act
				investigate the Grievance procedure, Machinery available for redressal of Grievances



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			CO4	By the end of the course, students will be able to evaluate the Encourage an aptitude for business improvement, innovation and entrepreneurial action By the end of the course, students will be able to explain the Reading R data sets and creating variables
	Bus4.2 (R22)	Knowledge management	CO1	By the end of the course, students will be able to understand the concepts of Knowledge Economy
			CO2	By the end of the course, students will be able to analyse the Information Technology& Knowledge Management
			СОЗ	By the end of the course, students will be able to investigate the Future of Knowledge Management & Industry Perspective
			CO4	By the end of the course, students will be able to evaluate the Knowledge Management Process
			CO5	By the end of the course, students will be able to explain the Implementation of Knowledge Management and Study of Road Blocks to the implementation of knowledge management
	Bus4.3 (R22)	Global Business	CO1	By the end of the course, students will be able to understand the International business environment
			CO2	By the end of the course, students will be able to analyse the Evaluating and selecting the country for global business and modes of entry into global business
			СОЗ	By the end of the course, students will be able to investigate the Trends in international investments
			CO4	By the end of the course, students will be able to evaluate the Trade restrictions and economic development
			CO5	By the end of the course, students will be able to explain the Global Business Operations strategies
	Bus 4.4 HR (R22)	International Human Resource Management	CO1	By the end of the course, students will be able to understand the concepts of Human Resource Management
			CO2	By the end of the course, students will be able to analyse the International recruitmentand selection - Training and development of expatriates
			СОЗ	By the end of the course, students will be able to investigate the Repatriation -Processof repatriation,



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				job related adjustments, organisational development
			CO4	By the end of the course, students will be able to evaluate Employer-EmployeeRelation in MNCs
			CO5	By the end of the course, students will be able to explain Cross Cultural Management
	Bus4.5.F (R22)	Management of Financial Services	CO1	By the end of the course, students will be able to understand the Financial Services
			CO2	By the end of the course, students will be able to analyse the Merchant Bankingguidelines
			CO3	By the end of the course, students will be able to investigate the Mutual Funds policies and Forfeiting – Securitization.
			CO4	By the end of the course, students will be able to evaluate the Venture CapitalInstitutions in India
			CO5	By the end of the course, students will be able to explain the Lease Financing
	Bus4.5 H (R22)	Performance & Compensation Management	CO1	By the end of the course, students will be able to understand the Introduction to Performance Management
			CO2	By the end of the course, students will be able to analyse the Introduction toCompensation  Management
			СОЗ	By the end of the course, students will be able to investigate the Performance LinkedCompensation
			CO4	By the end of the course, students will be able to evaluate the InternationalCompensation  Management.
			CO5	By the end of the course, students will be able to explain the Compensation Administration
	Bus 4.6 F		CO1	By the end of the course, students will be able to understand the concepts of IncomeTax Act, 1961
			CO2	By the end of the course, students will be able to analyse the Computation of income of a company under Income from House Properties



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(R22)	Corporate Taxation	СОЗ	By the end of the course, students will be able to investigate the Set-off and set-off and carry forward of losses
		CO4	By the end of the course, students will be able to evaluate the Assessment of Company Assessed
		CO5	By the end of the course, students will be able to explain the Tax planning
		COI	By the end of the course, students will be able to understand the HRD objectives and philosophy
		CO2	By the end of the course, students will be able to analyse the Observing and Assessing HRD needs, Planning and Designing HRD Needs
Bus 4.6 H (R22)		CO3	By the end of the course, students will be able to investigate the Reviewing and Evaluating HRD
		CO4	By the end of the course, students will be able to evaluate the HRD managers in MNC
	HRD Strategy & Systems	CO5	By the end of the course, students will be able to explain the Designing HRD model-Global Restrictions on certain Countries by the hiring Country



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**Criterion: II** 

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2.6.1

PROGRAMME OUTCOMES FOR ALL PROGRAMMES



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# B. Sc- Bachelor of Science Programme Outcomes

# PO1: Essential Domain Knowledge

Comprehensive discipline knowledge and understanding, the ability to engage with different methods and to apply their knowledge in practice including in interdisciplinary contexts.

# PO2: Creative and critical thinking and Problem-solving abilities

Be effective problem solver, able to apply critical and evidence-based thinking to conceive innovative responses to future challenges.

# PO3: Communication skills and Teamwork

Be able to convey ideas and information effectively to contribute in a positive and collaborative manner to achieving common goals.

# **PO4: Digital Capabilities**

Demonstrate preparedness for living, learning and working in a digital society.

# PO5: Social Responsibilities, Ethical and Environmental Competency

Be responsible and effective Global environment whose ethical values and practices are consistent with their roles as responsible members of society.

# PO6: Employability and Research related Skills

Demonstrate entrepreneurial skills and explore opportunities of establishing enterprises in the field of science. Be able to develop and design research related skills.

### PO7: Life-long Learning

Exhibit life-long learning skills, self and field-based learning skills in the broad context of technological changes.

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# B. Com -Bachelor of Commerce Programme Outcomes

# PO1: Essential Domain Knowledge:

Comprehensive discipline knowledge and understanding, the ability to engage with different methods and to apply their knowledge in practice including in interdisciplinary contexts.

# PO2: Creative and critical thinking and Problem-solving abilities

Be effective problem solver, able to apply critical and evidence-based thinking to conceive innovative responses to future challenges.

### PO3: Communication skills and Teamwork

Be able to convey ideas and information effectively to contribute in a positive and collaborative manner to achieving common goals.

### **PO4: Digital Capabilities**

Demonstrate preparedness for living, learning and working in a digital society.

### PO5: Social Responsibilities, Ethical and Environmental Competency

Be responsible and effective Global environment whose ethical values and practices are consistent with their roles as responsible members of society.

### PO6: Employability and Research related Skills

Demonstrate entrepreneurial skills and explore opportunities of establishing enterprises in the field of science. Be able to develop and design research related skills.

# PO7: Life-long Learning:

Exhibit life-long learning skills, self and field-based learning skills in the broad context of technological changes.

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# BCA - Bachelor of Computer Applications Programme Outcomes

# PO1: Essential Domain Knowledge

Comprehensive discipline knowledge and understanding, the ability to engage with different methods and to apply their knowledge in practice including in interdisciplinary contexts.

# PO2: Creative and critical thinking and Problem-solving abilities

Be effective problem solver, able to apply critical and evidence-based thinking to conceive innovative responses to future challenges.

### PO3: Communication skills and Teamwork

Be able to convey ideas and information effectively to contribute in a positive and collaborative manner to achieving common goals.

### **PO4: Digital Capabilities**

Demonstrate preparedness for living, learning and working in a digital society.

# PO5: Social Responsibilities, Ethical and Environmental Competency

Be responsible and effective Global environment whose ethical values and practices are consistent with their roles as responsible members of society.

# PO6: Employability and Research related Skills:\

Demonstrate entrepreneurial skills and explore opportunities of establishing enterprises in the field of science. Be able to develop and design research related skills.

## PO7: Life-long Learning

Exhibit life-long learning skills, self and field-based learning skills in the broad context of technological changes.

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# MCA - Master of Computer Applications Programme Outcomes

- PO1: Apply the knowledge of mathematical foundations required for problem solving and the concerned analytical skills to analyze the problem at hand.
- PO2: Identify, analyze, design and investigate the complex problems from the programmer's perspective and formulate a solution using the technical skills obtained all through the programme.
- PO3: Design and conduct experiments, as well as analyze and interpret data, draw conclusions.
- PO4: Apply current and emerging technologies for the problems at hand to create models at different stages of software development process and convert that into code as well as testcases. This process gives a chance forgetting better exposure to the modern
- PO5: Communicate effectively, present technical information both verbally and written in the form of are porter mail.
- PO6: understand the context based professional, ethical, legal, security and social issues and responsibilities.
- **PO7:** Use research, experiment, contemporary issues to solve industrial problems.
- **PO8:** inculcate the habit of lifelong learning so as to match the cutting-edge needs of the industry from time to time.
- PO11: identify opportunities based on the society needs and convert that into an innovative idea so that the same can be converted into an enterprise.

PO12:Understand,management and computing principles with computing knowledge to manage projects in multi disciplinary environments. EGEF

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# MBA - Master of Business Administration

# Programme Outcomes

- PO1: Remember and illustrate domain knowledge of advanced concepts, principles, theories and models of Business Management and allied domains.
- **PO2:** Critically examine, interpret and analyse the implications of various Acts, Codes, laws, policies, procedures of business and takes judicious decisions.
- PO3: Identify and analyse complex real world problems of business management and provide effective solutions using appropriate theoretical tools and techniques.
- **PO4**: Demonstrate ability to undertake research and real-time projects relating to corporate business and management with the help of statistical tools/quantitative techniques and research methodology and draw valid inferences.
- **PO5:** Demonstrate ability to use various ICT tools in collecting, managing and using information and quantitative data in business related operations.
- **PO6:** Explore and create opportunities of business and entrepreneurship and avail of them to establish enterprises.
- **PO7:** Provide effective leadership and works with team spirit and dignity in the organisational activities.
- **PO8:** Positively responds to demands of social responsibility through willing participation in activities of social help with ethical behaviour, honesty and integrity.
- **PO9:** Appreciate cross cultural aspects of business and management and demonstrates global perspective in understanding and responding to the emerging issues/challenges in the field of business management.
- **PO10:** Evaluate the impact of business decisions and activities on the environment and works for sustainable development.
- **PO11:** Demonstrate appreciable level of effective communications skills of speaking to all stakeholders and reporting to appropriate authorities skills of maintaining cordial relations.

PO12: Show inclination to learn life-long by updating knowledge relevant to business management and related activities.

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(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

**Metric** – **2.6.1** 

**Criterion: II** 

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2.6.1

PROGRAMME SPECIFIC OUTCOMES FOR ALL PROGRAMMES



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### B. Sc - Mathematics, Physics, Computer Science (M.P. Cs) Programme Specific Outcomes

- **PSO 1:** Understand the concepts of vector spaces, group theory, quantum mechanics, optical, thermal, electrical, mechanical properties of a materials, probability, algorithm design, data base.
- **PSO 2:** Analyse the concepts of mathematics, physics and computers science able to relate them in numerical programming of models of physical systems
- **PSO 3:** Ability to interlink the skills developed and acquires an aptitude to address the problems in simulations of material properties, web and mobile app development

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### B. Sc - Mathematics, Statistics, Computer Science (M.S. Cs) Programme Specific Outcomes

- **PSO 1:** Understand the concepts of vector spaces, group theory, probability, distributions, sampling techniques, algorithm design, data base design and web design.
- **PSO 2:** Analyse the concepts of mathematics, statistics and computers science able to use them in algorithm design and data science.
- **PSO 3:** Acquire the skills to use various sampling techniques, statistical inference, data analysis in MS-Excel, implementation of numerical algorithms by using various programming languages.

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### B. Sc - Mathematics, Physics, Chemistry (M.P.C) Programme Specific Outcomes

**PSO1**: Understand the theoretical concepts of physical and chemical properties of materials and the role of mathematics in dealing with them in a quantitative way.

PSO2: Analyse the concepts of mathematics, physics and chemistry and understand the relation among them like physical chemistry, mathematical modelling of physics and chemistry problems. Skills needed to handle instruments and adopt lab procedures to study physical chemical properties of materials.

**PSO3**: Ability to interlink the skills and knowledge in mathematics, physics and chemistry and develop an aptitude to address the problems in biophysics, stock market analysis

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B. Sc – Microbiology, Botany, Chemistry (M.B.C)

Programme Specific Outcomes

- PSO 1: Developing deeper understanding of key concepts of Microbiology, Botany, Chemistry at biochemical, molecular and cellular level, physiology and reproduction at organismal level, and microbial word, useful and harmful microorganisms.
- **PSO 2:** Ability to develop theoretical and practical knowledge in handling the microbes with chemicals in labs and using them as model organism.
- **PSO 3:** Imparting knowledge regarding r-DNA technology, E-Coli bacteria and its uses in r-DNA chemicals using in different biological techniques

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### B. Sc - Botany, Biotechnology, Chemistry (B.B.C) Programme Specific Outcomes

- PSO 1: The program Biotechnology, Botany and chemistry has been introduced to prepare the students for a career which finds application and provides solution to some of the major contemporary problems on the earth i.e., providing food for growing population, designing advanced medical treatment options for increasing —evolving diseases, to find solution to deteriorating environment caused due to over exploitation / misuse of natural resources etc.,
- **PSO 2 :** In this program the knowledge about the subject chemistry comes in to play when structures of biomolecules and their interactive relations to the environment are to be understood.
- PSO 3: Finally the subject biotechnology amalgamates the various disciplines of sciences and offers ethically acceptable knowledge to bring about sustainable solutions for a variety of problems related to Agriculture, Environment, Quality of human life. These problems are solved with responsibility using appropriate tools while keeping in mind safety factor of Environment and society.

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#### B.COM (General)

#### Programme Specific Outcomes

- **PSO 1**: To understand the nature, scope and concepts of Accounting, Business Operations and Management.
- PSO 2: To analyse the relationship between Accounting, Auditing and Taxation.
- **PSO 3**: To understand the application of Corporate Accounting Principles and Practices in real time business situations.

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### B.COM (Computer Applications) Programme Specific Outcomes

**PSO1:** To understand the nature, scope and concepts of Accounting, Business Operations and Management.

**PSO2:** To enable the students to understand the concepts of computer software and its applications in business operations.

**PSO3:** To equip the students with business analytics and e-commerce skills.

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### BCA – Bachelor of Computer Applications Programme Specific Outcomes

**PSO1:** Apply the knowledge of fundamentals concepts, procedures in Problem Solving.

**PSO2:** Demonstrate develop programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT

**PSO3:** Work with latest computing technologies and pursue careers in IT industry / Teaching and allied areas

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## ENRICH FURTHER STATES

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### MCA –Master of Computer Applications Programme Specific Outcomes

**PSO1:** Design, develop, test and maintain web, mobile and cross-platform software applications using modern tools, technologies, skills and computing models. All these applications so developed may ultimately be moved on to the cloud.

PSO2: Apply security mechanisms for computer applications.

**PSO3:** Work with latest computing technologies and pursue careers in IT industry/consultancy/research and development, teaching and allied areas.

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### MBA – Master of Business Administration Programme Specific Outcomes

**PSO1:** Able to Identify, understand and analyse professional issues in contexts of HR /Market / Finance and operations.

**PSO2:** Apply decision-making techniques, using both quantitative and qualitative analysis to propose solutions for real life issues.

**PSO3:** Analyse and evaluate ethical problems that occur at all levels of business decision making.

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**Metric** – **2.6.2** 

**Criterion: II** 

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2.6.2

#### **CO – PO Mapping and Articulation Matrix for all Courses**



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#### **DEPARTMENT OF ENGLISH**

S.NO	SEMES TER	COURSE CODE	COURSE TITLE		COURSE OUTCOMES (COs)	PROGRAM OUTCOMES(POs)	PROGRAM SPECIFIC OUTCOMES (PSOs)
1	I	EHG1SK	1101-1K	CO1	Apply grammatical rules and become proficient	PO1, PO2, PO3,	PSO1, PSO2,
					in the use of English	PO4,PO7	PSO3
				CO2	Outline and interpret the critical ideas, values	PO1, PO2, PO3,	PSO1, PSO2,
					and themes of different writers of different	PO4,PO7	PSO3
					genres.		
				CO3	Gain articulating the right sounds and intonation	PO1, PO2, PO3,	PSO1, PSO2,
					of english	PO4,PO7	PSO3
				CO4	Demonstrate with the practical, emotional	PO1, PO2, PO3,	PSO1, PSO2,
					intellectual and creative aspects of language by	PO4,PO7	PSO3
					integrating knowledge and skill.	,	
				CO5	Functions on understanding ideas for yourself,	PO1, PO2, PO3, PO4,	PSO1, PSO2,
					applying knowledge to new situations and using		PSO3
					novel examples to explain a concept.	,	
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#### **COURSE -I:**

POs/ PSOs				Mapping(Cos & PSOs)						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	-	-	3	3	3	2
CO2	3	3	2	2	-	-	2	3	3	3
CO3	3	3	1	2	-	-	3	3	2	2
CO4	3	2	2	2	-	-	2	3	3	2
CO5	2	3	3	3	-	3	2	3	3	3
Average	2.8	2.8	2.2	2.4	-	3	2.4	3	2.8	2.4

OVER ALL AVERAGE BETWEEN COS & POS =2.22



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S.NO	SEMES TER	COURSE CODE	COURSE TITLE	COURSE OUTCOMES (COs)		PROGRAM OUTCOMES(POs)	PROGRAM SPECIFIC OUTCOMES (PSOs)
1	II	ENG2SK	1101-2K	CO1	Apply grammatical rules and become proficient in the use of English	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO2	Outline and interpret the critical ideas, values and themes of different writers of different genres.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO3	Gain articulating the right sounds and intonation of english	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO4	Demonstrate with the practical, emotional ,intellectual and creative aspects of language by integrating knowledge and skill.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
						PO1, PO2, PO3, PO4, PO6, PO7	PSO1, PSO2, PSO3



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#### **COURSE -I:**

POs/ PSOs				Mapping(Cos & PSOs)						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	-	-	3	3	3	2
CO2	3	3	2	2	-	-	2	3	3	3
CO3	3	3	1	2	-	-	3	3	2	2
CO4	3	2	2	2	-	-	2	3	3	2
CO5	2	3	3	3	-	3	2	3	3	3
Average	2.8	2.8	2.2	2.4	-	3	2.4	3	2.8	2.4

OVER ALL AVERAGE BETWEEN COS & POS =2.22



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S.NO	SEMES TER	COURSE CODE	COURSE TITLE		COURSE OUTCOMES (COs)	PROGRAM OUTCOMES(POs)	PROGRAM SPECIFIC OUTCOMES (PSOs)
1	III	ENG3S	2101-3	CO1	Apply grammatical rules and become proficient in the use of English	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
		C		CO2	Outline and interpret the critical ideas, values and themes of different writers of different genres.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO3	Gain articulating the right sounds and intonation of english	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO4	Demonstrate with the practical, emotional ,intellectual and creative aspects of language by integrating knowledge and skill.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO5	Functions on understanding ideas for yourself, applying knowledge to new situations and using novel examples to explain a concept.	PO1, PO2, PO3, PO4, PO6, PO7	PSO1, PSO2, PSO3



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#### **COURSE -I:**

POs/ PSOs			Mappi	ng(Cos & F	POs)			Mapping(Cos & PSOs)			
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
CO1	3	3	3	3	-	-	3	3	3	2	
CO2	3	3	2	2	-	-	2	3	3	3	
CO3	3	3	1	2	-	-	3	3	2	2	
CO4	3	2	2	2	-	-	2	3	3	2	
CO5	2	3	3	3	-	3	2	3	3	3	
Average	2.8	2.8	2.2	2.4	-	3	2.4	3	2.8	2.4	

OVER ALL AVERAGE BETWEEN COS & POS =2.22

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#### **DEPARTMENT OF TELUGU**

S. No.	Sem	Course	Course Title	Course Outcomes (COs)	Programne	Programme Specific					
		Code			Outcomes (POs)	Outcomes (PSOs)					
				పాచీన తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను (దిరిస్తారు. తెలుగు సాహిత్యంలో ఆదికవి నన్నయ కాలంనాటి భాషా సంస్కృతులను, ఇతిహాసకాలం నాటి రాజనీతి విషయాల పట్ల పరిజ్ఞానాన్ని సంపాదించగలరు.	PO1, PO2, PO3, PO5	PSO1, PSO2					
	1 I 1	1103-1K	్రపాచీన			్రపాచీన	_	ప్రాచీన	శివకవుల కాలంనాటి మతపరిస్థితులను, భాషా విశేషాలను co2 గ్రహిస్తారు. తెలుగు నుడికారం, సామెతలు, లోకోక్తులు మొదలైన భాషాంశాల పట్ల పరిజ్ఞానాన్ని పొందగలరు.	PO1, PO2, PO3, PO5	PSO1, PSO2,
1				CO3 తిక్కన భారతంనాటి మత, ధార్మిక పరిస్థితులను, తిక్కన కవితాశిల్పాన్ని, నాటకీయతను అవగాహన చేసుకోగలరు.	PO1, PO2, PO3, PO5, PO7	PSO1, PSO2, PSO3					
				ఎఱ్ఱన సూక్తివైచిట్రెని, ఇతిహాస కవిత్వంలోని విభిన్న co4 రీతులపట్ల అభిరుచిని పొందగలరు. శ్రీనాథుని కాలం నాటి కవితావిశేషాలను, మొల్ల కవితా విశిష్టతను గుర్తించగలరు.	PO1, PO2, PO3, PO5	PSO1, PSO2					
				తెలుగు పద్యం స్వరూప స్వభావాలను, సాహిత్యాభిరుచిని పెంపొందించుకుంటారు. ప్రాచీన కావ్య భాషలోని వ్యాకరణాంశాలను అధ్యయనం చేయడం ద్వారా భాషా సామర్థ్యాన్ని రచనల మెళకువలను గ్రహించగలరు.	PO1, PO2, PO3, PO6, PO7	PSO2, PSO3					



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				CO1	ఆంగ్లభాష ప్రభావం కారణంగా తెలుగులో వచ్చిన ఆధునిక సాహిత్యాన్ని, దాని విశిష్టతను గుర్తిస్తారు.	PO1, PO2, PO3, PO4, PO6	PSO2
			ఆధునిక తెలుగు సాహిత్యం		సమకాలీన ఆధునిక సాహిత్య ప్రక్రియలైన వచన కవిత్వం, కథ, నవల, నాటకం, విమర్శలపై అవగాహన పొందుతారు.	PO1, PO2, PO3, PO7	PSO2, PSO3,
2	II	1103-2k			భావకవిత, అభ్యుదయ కవితాలక్ష్యాలను గూర్చిన జ్ఞానాన్ని పొందుతారు. అస్తిత్వవాద ఉద్యమాలపుట్టుకను, ఆవశ్యకతను గుర్తిస్తారు.	PO1, PO3, PO5,	PSO1
				CO4	కథాసాహిత్యం ద్వారా సామాజిక చైతన్యాన్ని పొందుతారు. సిధ్ధాంతాల ద్వారా కాకుండా, వాస్తవ పరిస్థితులను తెలుసుకోవడం ద్వారా సిధ్ధాంతాన్ని సమీక్షించగలరు.	PO1, PO3, PO5	PSO1
				CO5	ఆధునిక తెలుగు కల్పనాసాహిత్యం ద్వారా సామాజిక, సాంస్కృతిక, రాజకీయ చైతన్యాన్ని పొందుతారు.	PO1, PO2, PO3	PSO2
				CO1	తెలుగు సాహిత్య అభ్యసన ద్వారా నేర్చుకున్న నైపుణ్యాలను, సృజనాత్మక నైపుణ్యాలుగా మార్చుకోగలరు.	PO1, PO2, PO3, PO5, PO7	PSO1, PSO2, PSO3
3	3 III 2103-31		సృజనాత్మక రచన	CO2	విద్యార్థులు భాషాతత్వాన్ని, భాష యొక్క ఆవశ్యకతను, భాష యొక్క ప్రాధాన్యాన్ని గుర్తిస్తారు. మనిషి వ్యక్తిగత జీవనానికి, సామాజికవ్యవస్థ పటిష్టతకు భాష ప్రధానమని తెలుసుకుంటారు. తెలుగుభాషలోని కీలకాంశాలైన 'వర్ణం - పదం - వాక్యా'ల ప్రాధాన్యాన్ని గుర్తిస్తూ, వాగూప- లిఖితరూప వ్యక్తీకరణ ద్వారా భాషానైపుణ్యాలను మెరుగుపరచుకోగలరు.	PO1, PO2, PO3, PO4, PO5, PO7	PSO1, PSO2, PSO3
					భాషానైపుణ్యాలను అలవరచుకోవడంతో పాటు వినియో గించడం నేర్చుకుంటారు. రచనా, భాషణానైపుణ్యాలను సృజనాత్మక రూపంలో వ్యక్తీకరించ గలరు.	PO1, PO2, PO3, PO7	PSO1, PSO2, PSO3
				CO4	్రపాచీన పద్యరచనతో పాటు ఆధునిక కవిత, కథ, వ్యాసం,	PO1, PO2, PO3,	PSO1, PSO2, PSO3



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మొదలైన సాహిత్య ప్రక్రియల నిర్మాణాలకు సంబంధించిన సిద్ధాంత విషయాలను నేర్పడంతో పాటు వారిలో రచనా నైపుణ్యాలను పెంపొందించుకోగలరు.		
సృజన రంగం, ప్రసారమాధ్యమ రంగాల్లో ఉపాధి <sup>CO5</sup> అవకాశాలను అందిపుచ్చుకోగలరు. అనువాద రంగంలో నైపుణ్యం సంపాదించగలరు.	PO2, PO3, PO4, PO6	PSO3



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YEAR & SEMESTER : 1-I Course Code : 1103-1K

Course Title : ప్రాచీన తెలుగు కవిత్వం

#### Mapping of Course Outcomes (COs) with POs& PSOs

COs			MAPPI	NG(COs & PO	Os)			MAPPING(COs & PSOs)			
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communication skills and Teamwork	PO4 <b>Digital Capabilities</b>	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Lifelong Learning	PSO1	PSO2	PSO3	
CO1	3	3	3	-	3	-	-	3	3	-	
CO2	3	3	3	-	3	-	-	3	2	-	
CO3	2	3	2	-	2	-	3	3	2	3	
CO4	2	2	2	-	3	-	-	2	2	-	
CO5	3	2	2	-	-	2	3	-	3	2	
Ave rage	2.6	2.6	2.4	-	2.75	2	3	2.75	2.4	2.5	

OVER ALL AVERAGE BETWEEN COS & POS = 2.56 OVER ALL ACERAGE BETWEEN COS &PSOS =2.55



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YEAR & SEMESTER : 1-II

Course Code : 1103-2K

Course Title : ఆధునిక తెలుగు సాహిత్యం

COs			MAPPI	NG(COs & PO	Os)			MAPPING(COs &		
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communication skills and Teamwork	PO4 <b>Digital Capabilities</b>	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Lifelong Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	-	3	-	-	3	-
CO2	3	3	3		-	-	2	-	3	2
CO3	3	-	3		3	-	-	3	-	-
CO4	3	-	2	-	2	-	-	3	-	-
CO5	3	-	2	-	-	-	-	-	2	-
Ave rage	3	3	2.6	3	2.5	3	2	3	2.67	2

OVER ALL AVERAGE BETWEEN COS & POS = 2.73 OVER ALL ACERAGE BETWEEN COS & PSOS = 2.56



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YEAR & SEMESTER : 2-III

Course Code :2103-3K

Course Title : సృజనాత్మక రచన

COs			MAPPI	ING(COs & Po	Os)			MAPPI	NG(COs	& PSOs)
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communication skills and Teamwork	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Lifelong Learning	PSO1	PSO2	PSO3
CO1	3	3	3	-	Competency 3	-	3	3	3	2
CO2	3	3	3	3	3	-	2	2	3	3
CO3	3	3	2	-	-	-	3	3	3	3
CO4	3	3	3	-	-	-	2	2	2	2
CO5	-	2	2	3	-	3	-	-	-	2
Ave rage	3	2.8	2.6	3	3	3	2.5	2.5	2.75	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.84 OVER ALL ACERAGE BETWEEN COS & PSOS =2.47



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COs				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communication skills and Teamwork	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Lifelong Learning	PSO1	PSO2	PSO3
COURSE-I	2.6	2.6	2.4	-	2.75	2	3	2.75	2.4	2.5
COURSE-II	3	3	2.6	3	2.5	3	2	3	2.67	2
COURSE-III	3	2.8	2.6	3	3	3	2.5	2.5	2.75	2.4
Average	2.87	2.8	2.53	3	2.75	2.67	2.5	2.75	2.61	2.3

OVERALL AVERAGE BETWEEN COs & POs=2.73

OVERALL AVERAGE BETWEEN COs & PSOs=2.55

Levels : = L1 – Remembering, 2= L2-Understanding & L3-Applying, 3 = L4-Analysing, L5- Evaluating & L6- Creating



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#### DEPARTMENT OF SANSKRIT

#### Course Outcomes(COs) with POs &PSOs

S.No	Semester	Course Code	Course Title	COs	POs	PSOs
		Code	,	CO1: इतिहासस्य प्रसस्त्यम् जानन्ति । नित्य नूतन धर्मानुसरणन्ति । नैतिका मूल्यान् अधिगचन्ति ।	PO1,PO2, PO4	PSO1,PSO2
		*	Poetry,Prose	CO2: मानाव धर्मान्,सामाजिका परिणामान् अधिगचन्ति ।	PO1,PO2, PO5	PSO1,PS02
1	I	1105-1	, Grammar Sanskrit-I	CO3: नीतिकथां द्वारा मानाव विचक्षणा ग्नानं अधिगम्यन्ते ।	PO1,PO2, PO8	PSO1,PSO2,PSO8
		-		CO4: भाषा परिग्नानम् अधिगचन्ति ।	PO1,PO2, PO3	PSO1,PSO2
				CO1: वामसगौरव रक्षणं,नायकत्वलक्षणं आध्यात्मिकमूल्यान् विद्यार्धिनाह अधिगम्यन्ते ।	PO1,PO2, PO3,PO4	PSO2,PSO4



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	1 75 211		Poetry,Prose	CO2: इथिहासानं प्रआसस्त्यं, युवकानं परिणामक्रमे व्यक्तित्व विकासं विद्यार्धिनः अभिजानन्ति ।	PO1,PO8	PSO1,PSO2
2	II	1105-2	Grammar Sanskrit-II	CO3: धर्मिक मूल्यान्, राजाधर्मान्, धात्रुत्व भवान् विद्यार्द्थिना अवलम्बन्ति ।	PO1,PO2	PSO3,PSO4
				CO4: भाषा परिग्नानं अभिजानन्ति।	PO1,PO3	PSO1,PSO2
				CO1: नैतिका मूल्यान् ,धर्मीक चिन्तनं गणनं लभते । प्राचीन नाटका विषाये ग्नान सम्पादनं ।	PO1,PO2, PO7	PSO1,PSO8
2			Poetry,Prose	CO2: आत्मविश्वासं, व्याक्तिगतसमर्द्यं महत्वां ग्नायते	PO2,PO4, PO8,PO9	PSO2,PS04
3	III	1105-3	, Grammar Sanskrit-III	CO3: आत्मविश्वासं, व्याक्तिगतसमर्द्यं महत्वां ग्नायते	PO1,PO2	PSO2,PSO3
				CO4: सातिविका भावान् ग्नान सम्पादनं ।	PO1,PO2, PO8	PSO2,PSO3
				CO5: प्राचीन सास्त्रकारणं परिचयः ग्नायते	PO1,PO7	PSO1,PSO2



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#### **SEMESTER-I:**

#### **COURSE-I:**

POs/ PSOs				Mappi	ng(Cos d	& POs)				Mapping(Cos & PSOs)				
1503	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO	
COs					-								4	
CO1	3	3	-	2	-	-	-	-	-	3	3	3	3	
CO2	3	3	-	-	3	-	-	-	-	2	3	-	3	
CO3	2	2	-	-	-	-	-	3	-	3	3	2	3	
CO4	2	2	3	-	-	-	-	-	-	-	3	3	3	
Average	2.5	2.5	3	2	3	-	-	3	-	2.6	3	2.6	3	

OVER ALL AVERAGE BETWEEN COS & POS =2.6



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#### **SEMESTER-II:**

#### **COURSE-II:**

POs/ PSOs				Mappi	ag(Cos &	& POs)				Mapping(Cos & PSOs)				
1505	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO	
COs		1.0					_						4	
CO1	3	3	3	3	-	2	2	-	-	3	3	3	3	
CO2	3		-	-	-	-	-	3	-	3	3	3	3	
CO3	3	3	3	2	-	-	-	3	3	3	2	3	3	
CO4	2	-	-	-	-	-	-	-	-	3	2	3	2	
Average	2.75	3	2.5	2.5	-	2	2	3	3	3	2.5	3	2.75	

OVER ALL AVERAGE BETWEEN COS & POS =2.6



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#### **SEMESTER-III:**

#### **COURSE-III:**

POs/ PSOs				Mappi	ng(Cos d	& POs)				Mapping(Cos & PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO 4
COs													4
CO1	3	3	-	-	-	-	3	-	-	3	3	3	3
CO2	-	3	-	3	-	-	-	3	3	3	2	3	3
CO3	3	3	-	-	-	-	-	-	-	3	-	3	3
CO4	3	3	-	-	-	-	-	2	-	3	-	2	-
CO5	3	-	-	-	-	-	2	-	-	3	2	-	-
Average	3	3	-	3	-	-	2.5	2.5	3	3	2.3	2.2	3

OVER ALL AVERAGE BETWEEN COS & POS =2.8



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#### **DEPARTMENT OF MATHEMATICS**

Sl. No	Seme ster	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)									
				CO1	Students can develop a solid understanding of the fundamental concepts of differential equations, including the definitions of differential equations, order, linearity, and solutions.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.									
			Diff.	CO2	Students can be able to convert non exact homogeneous equations to exact differential equations by using integrating factors.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.									
1	1 I UG- 102	Differential Equations	CO3	Students were capable to analyze the methods of finding solutions of differential equations of the first order but not of the first degree.	PO1, PO2, PO4, PO6, PO7.	PSO1, PSO2, PSO3.										
														CO4	Students can solve higher-order linear differential equations, both homogeneous and non-homogeneous, with constant coefficients.	PO1, PO2, PO3, PO4, PO6.
												CO5 Students can understanding on the concepts and apply appropriate methods for solving differential equations.		PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.	
			Three		Students can be able to understand and analyze the concepts on planes.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3									
2	II UG- 102		Dimensional Analytical	CO2	Students may be able to understand and analyze the concepts on lines.	PO1, PO2, PO4, PO6, PO7.	PSO1, PSO2, PSO3.									
	Solid Geometry		CO3	Students may be able to understand and analyze the concepts on sphere and cone	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.										



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				CO4	Students can be able to understand and analyze the properties of	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	planes, lines, spheres and cones.	PO4, PO5, PO6.	PSO3.
				CO5	Students can be able to analyze the concepts and express the problems	PO1, PO2, PO3,	PSO1, PSO2,
				CO3	geometrically and then to get the solution	PO6, PO7.	PSO3.
					Students can able to Basic concepts from abstract algebra, especially	PO1, PO2, PO3,	PSO1, PSO2,
				CO1	the notion of a group. Acquire the basic knowledge and structure of	PO4. PO7.	PSO3.
					groups, subgroups and cyclic groups.		
					Students can Get the significance of the notation of normal	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	subgroups.	PO4, PO7.	PSO3.
3	Ш	UG-	Abstract		Get the behaviour of permutations and operations on them.		
	111	102	algebra	CO3	Students can Study the homomorphisms and isomorphisms with	PO1, PO2, PO3,	PSO1, PSO2,
					applications.	PO4, PO6, PO7.	PSO3.
				CO4	Students can able to Understand the Group theory and to prove the	PO1, PO2, PO3,	PSO1, PSO2,
					theorems.	PO5, PO6, PO7.	PSO3.
			CO5	Students can able to Understand the applications of Numerical	PO1, PO2, PO3,	PSO1, PSO2,	
					Analysis in various fields.	PO4,PO7.	PSO3.
				CO1	Students can Get a clear idea about the real numbers and real valued	PO1, PO2, PO3,	PSO1, PSO2,
					functions.	PO4, PO6, PO7.	PSO3
				~~*	Students may Obtain the skills of analyzing the concepts and applying	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	appropriate methods for testing convergence of a sequence or series.	PO4, PO5, PO6,	PSO3.
						PO7.	
		UG-		GOA	Students may able to Test the continuity and differentiability of the	PO1, PO2, PO4,	PSO1, PSO2,
4	IV	102	Real Analysis	CO3	function	PO5, PO6,	PSO3.
		102				PO7.	Page 1 Page 2
			CO4	Students can able to Test the Riemann integration of a function.	PO1, PO2, PO3,	PSO1, PSO2,	
			CO4		PO4, PO5, PO6,	PSO3.	
						PO7.	DCO1 DCO2
				CO5	Students can learn and Know the geometrical interpretation of mean	PO1, PO2, PO3,	PSO1, PSO2,
					value theorems.	PO4, PO6.	PSO3.



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				CO1	Students must understand the concepts of vector spaces, subspaces, basises, dimension and their properties	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																							
				CO2	Students must understand the concepts of linear transformations and their properties	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.																							
5	V	UG- 102	Linear	CO3	Students must understand the concepts of Characteristic equations, Characteristic Values & Vectors of square matrix and their properties	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.																							
			Algebra	CO4	Students must analyze and apply Cayley- Hamilton theorem to problems for finding the inverse of a matrix and higher powers of matrices without using routine methods	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3																							
				CO5	Students must analyze and apply tensor analysis in some of the physics Related Formulas	PO1, PO2, PO3, PO4, PO5, PO6.	PSO1, PSO2, PSO3.																							
				CO1	Students can able to Understand the subject of various numerical methods that are used to obtain approximate solutions	PO1, PO2, PO3, PO4, PO5.	PSO1, PSO2, PSO3.																							
				CO2	Students can able to learn various finite difference concepts and interpolation methods.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																							
6	VI	UG- 102	Numerical Methods																					Methods			CO3	Students can able to analyze and Work out numerical differentiation and integration whenever and wherever routine methods are not applicable.	PO1, PO2, PO3, PO5, PO6.	PSO1, PSO2, PSO3.
				CO4	Students can able to Find numerical solutions of ordinary differential equations by using various numerical methods.	PO1, PO2, PO3, PO4, PO5, PO7.	PSO1, PSO2, PSO3.																							
				CO5	Students can able to Analyze and evaluate the accuracy of numerical methods	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.																							
7	VII	UG- 102	Special Functions	CO1	Students must understand the Beta and Gamma functions, their properties and relation between these two functions, understand the	PO1, PO2, PO3, PO4, PO5, PO6,	PSO1, PSO2, PSO3.																							



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					orthogonal properties of Chebyshev polynomials and recurrence relations.	PO7.	
				CO2	Students must find power series solutions of ordinary differential equations.	PO1, PO2, PO3, PO4, PO5.	PSO1, PSO2, PSO3.
				CO3	Students must be able to solve Hermite equations and write the Hermite Polynomial of order (degree) n, also find the generating function for Hermite Polynomials, study the orthogonal properties of Hermite Polynomials and recurrence relations	PO1,PO2,PO5, PO6,PO7.	PSO1, PSO2, PSO3.
				CO4	Students must be able to solve Legendre equation and write the Legendre equation of the first kind, also find the generating function for the Legendre polynomial, Understand the orthogonal properties of Legendre polynomials	PO1, PO2,PO4, PO5, PO6,PO7.	PSO1, PSO2, PSO3
				CO5	Students must be able to solve Bessel equation and write the Bessel equation of the first kind of order n, also find the generating function for Bessel function and understand the orthogonal properties of Bessel equation.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3
				CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.
8	VIII	UG- 102	PROJECT	CO2	Use different Statistical packages for graphical interface, data analysis and interpretation	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.
				СОЗ	Write a systematic Statistical project report.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.



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#### I YEAR - B.Sc - I SEMESTER - PAPER - I

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)			
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	2	2	3	Competency 2	3	3	3	2	2	
COI	3	2	2		2	3	3	3	2	2	
CO2	2	3	3	3	2	3	3	2	2	3	
CO3	3	2	3	3	2	2	3	2	2	3	
CO4	2	2	3	2	-	3	3	3	3	2	
CO5	3	3	3	3	-	2	3	3	2	3	
Ave Rage	2.6	2.4	2.8	2.8	1.2	2.6	3	2.6	2.2	2.6	

OVER ALL AVERAGE BETWEEN COS & POS = 2.48OVER ALL AVERAGE BETWEEN COS & PSOS = 2.46 Levels :



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#### I YEAR – B.Sc – I SEMESTER – PAPER – II

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)			
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	2	3	2	2	-	3	3	2	3	
CO2	2	3	2	2	3	-	2	2	3	3	
CO3	3	3	3	3	2	2	3	2	2	3	
CO4	2	3	2	3	-	2	3	3	3	2	
CO5	3	3	2	2	-	3	3	3	3	3	
Ave Rage	2.6	2.8	2.4	2.4	1.4	1.4	2.8	2.6	2.6	2.8	

OVER ALL AVERAGE BETWEEN COS & POS = 2.25 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66 Levels :



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#### II YEAR – B.Sc – III SEMESTER – PAPER – III

	MAPPING(COs & POs)							MAPPING(COs & PSOs)		
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	3	3	3	3	3
CO2	2	2	3	2	2	2	3	3	2	2
CO3	3	3	3	3	3	3	3	2	2	3
CO4	2	2	3	3	3	2	3	2	2	2
CO5	2	2	3	3	2	2	3	3	3	3
Ave Rage	2.8	2.2	3	2.6	2.4	2.4	3	2.6	2.4	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.62OVER ALL AVERAGE BETWEEN COS & PSOS = 2.53 Levels :



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# II YEAR – B.Sc – IV SEMESTER – PAPER – IV

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)		
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	3	3	3	3
CO2	2	3	3	3	-	-	2	3	3	3
CO3	3	3	3	3	-	2	2	2	2	2
CO4	2	2	3	3	2	3	3	3	2	2
CO5	3	3	3	3	3	3	3	2	2	3
Ave Rage	2.6	2.6	2.8	2.8	1.4	1.6	2.6	2.4	2.4	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.34OVER ALL AVERAGE BETWEEN COS & PSOS = 2.46 Levels :



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# II YEAR – B.Sc – IV SEMESTER – PAPER – V

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)			
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	2	3	2	2	3	3	2	2	2	
CO2	2	3	3	3	2	2	3	3	2	3	
CO3	3	2	2	2	3	3	3	2	2	3	
CO4	3	3	3	3	2	3	3	3	2	2	
CO5	2	2	3	3	3	3	3	2	3	3	
Ave Rage	2.6	2.4	2.8	2.6	2.4	2.8	3	2.4	2.2	2.6	

OVER ALL AVERAGE BETWEEN COS & POS = 2.65OVER ALL AVERAGE BETWEEN COS & PSOS = 2.4



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# III YEAR – B.Sc – V SEMESTER – PAPER – VI-A

				MAP	PPING(C PSOs)	COs &				
	PO1 Essential Domain Knowledge	Essential Domain Knowledge Creative and critical thinking and problem solving abilities		PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	3	3	3	3	3
CO2	2	3	3	3	3	2	3	3	2	2
CO3	2	2	3	3	2	3	2	3	2	3
CO4	2	2	3	3	-	2	3	3	3	2
CO5	2	2	3	3	-	3	2	2	3	3
Ave Rage	2.2	2.2	3	2.8	1.4	2.6	2.6	2.8	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.40VER ALL AVERAGE BETWEEN COS & PSOS = 2.66 Levels : 1



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# III YEAR – B.Sc – V SEMESTER – PAPER – VII-A

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)			
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	2	3	2	Competency 2	-	3	3	3	3	
CO2	2	2	3	3	2	-	3	3	2	3	
CO3	3	3	2	2	3	2	3	2	2	3	
CO4	3	2	3	3	-	3	3	3	2	2	
CO5	3	2	3	2	-	3	3	3	3	3	
Ave Rage	2.8	2.2	2.8	2.4	1.4	1.6	3	2.8	2.4	2.8	

OVER ALL AVERAGE BETWEEN COS & POS = 2.310VER ALL AVERAGE BETWEEN COS & PSOS = 2.66 Levels :



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# III YEAR – B.Sc – VISEMESTER –PAPER- VIII- PROJECT

		MAPPING(COs & PSOs)											
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3			
CO1	3	3	2	2	2	3	3	3	2	3			
CO2	3	3	3	2	2	3	3	3	2	3			
CO3	3	2	3	3	2	3	3	3	3	2			
Ave Rage	3	3	2.6	2.3	2	3	3	3	2.3	2.6			

OVER ALL AVERAGE BETWEEN COS & POS = 2.7 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.67



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# IIIYEAR – B.Sc – MATHEMATICS- THEORY

			MA	APPING (CO	s & POs)			MAPPING (COs & PSOs)			
COs	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communica tion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
PAPER -I	2.6	2.4	2.8	2.8	1.2	2.6	3	2.6	2.2	2.6	
PAPER -II	2.6	2.8	2.4	2.4	1.4	1.4	2.8	2.6	2.6	2.8	
PAPER -III	2.8	2.2	3	2.6	2.4	2.4	3	2.6	2.4	2.6	
PAPER -IV	2.6	2.6	2.8	2.8	1.4	1.6	2.6	2.4	2.4	2.6	
PAPER -V	2.6	2.4	2.8	2.6	2.4	2.8	3	2.4	2.2	2.6	
PAPER -VI	2.2	2.2	3	2.8	1.4	2.6	2.6	2.8	2.6	2.6	
PAPER -VII	2.8	2.2	2.8	2.4	1.4	1.6	3	2.8	2.4	2.8	
PAPER -VIII	3	3	2.6	2.3	2	3	3	3	2.3	2.6	
Average	2.65	2.47	2.77	2.58	1.7	2.25	2.87	2.65	2.38	2.65	



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# **DEPARTMENT OF PHYSICS**

**SUBJECT NAME:** Mechanics, waves and oscillations

Course-I, Semester -I

Course Outcomes: Upon the completion of the course, the student will be able to,

S. No	SEMESTER	COURSE CODE	COURSE TITLE		COURSE OUTCOMES (COs)	PROGRAM OUTCOMES	PROGRAM SPECIFIC OUTCOMES
1	I	PHY1SK	Mechanics, waves and oscillations	CO1	Explain Newton's laws of motion and motion of variable mass system and its application to rocket motion and the concepts of impact parameter, scattering cross section.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO2	Apply the rotational kinematic relations, the principle and working of gyroscope and it applications and the precessional motion of a freely rotating symmetric top.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO3	Interpret the general characteristics of central forces and the application of Kepler's laws to describe the motion of planets and satellite in circular orbit through the study of law of Gravitation.		PSO1, PSO2, PSO3
				CO4	Examine phenomena of simple harmonic motion and the distinction between un damped, damped and forced oscillations and the concepts of resonance and quality factor with reference to damped harmonic oscillator.		PSO1, PSO2, PSO3
				CO5	Discuss the coupled oscillations and solve them to obtain normal modes of oscillation and their frequencies in simple mechanical systems. Acquire the knowledge on Ultrasonic waves, their production and detection and their applications in different fields.	PO1, PO2, PO3, PO4, PO6, PO7	PSO1, PSO2, PSO3



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2	I	PHY1S	Mechanics,	CO1	Outline the operations of basic measuring	PO1, PO2, PO3,	PSO1, PSO2,
		K	Waves and		instruments.	PO4,PO6,PO7	PSO3
			Oscillations				
			(Lab)	CO2	Measure viscosity of liquid by the flow method	PO1, PO2, PO3,	PSO1, PSO2,
					and surface tension by capillary rise method.	PO4,PO6,PO7	PSO3
				CO3	Apply the knowledge of Elastic constants to	PO1, PO2, PO3,	PSO1, PSO2,
					measure young's modulus of material of a rod by	PO4,PO6,PO7	PSO3
					uniform bending methods.		
				CO4	Verify the concept of acceleration due to gravity	PO1, PO2, PO3,	PSO1, PSO2,
					using simple pendulum by method of errors.	PO4,PO6,PO7	PSO3
				CO5	Determine the rigidity modulus of material of a	PO1, PO2, PO3,	PSO1, PSO2,
					wire using torsional pendulum	PO4,PO6,PO7	PSO3



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# **COURSE -I:** (Theory)

PQs/			Mappir	ng(Cos & )	POs)			Mapping(Cos & PSOs)			
PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
COs											
CO1	3	3	3	3	-	-	3	3	3	2	
CO2	3	3	2	2	-	-	2	3	3	3	
CO3	3	3	1	2	-	-	3	3	2	2	
CO4	3	2	2	2	-	-	2	3	3	2	
CO5	2	3	3	3	-	3	2	3	3	3	
Average	2.8	2.8	2.2	2.4	-	3	2.4	3	2.8	2.4	

OVER ALL AVERAGE BETWEEN COS & POS =2.22



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# **COURSE -I: (Lab)**

POs/ PSOs			Mappin	g(Cos & l	POs)			Mapping(Cos & PSOs)			
1503	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
COs											
CO1	3	3	3	-	2	-	1	3	3	2	
CO2	3	2	3	-	3	-	2	3	2	3	
CO3	3	3	2	-	2	-	3	2	3	3	
CO4	3	3	3	-	3	-	2	2	3	3	
CO5	2	2	2	-	2	-	3	2	3	3	
Average	2.8	2.6	2.6	1	2.4	-	2.2	2.4	2.8	2.8	

OVER ALL AVERAGE BETWEEN COS & POS =2.52

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Course -II, Semester -II

Course Outcomes: Upon the completion of the course, the student will be able to,

**SUBJECT NAME:** Wave Optics

3	II	PHY2SK	Wave Optics	CO1	Explain the phenomenon of interference of light and its formation in (i) Lloyd's single mirror due to division of wave front and (ii) Thin films, Newton's rings and Michelson interferometer due to division of amplitude.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO2	Distinguish between Fresnel's diffraction and Fraunhoffer diffraction and observe the diffraction patterns in the case of single slit and the diffraction grating.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO3	Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO4	Explain the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3



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				CO5	Comprehend the basic principle of laser, the working of He- Ne laser and Ruby lasers and their applications in different fields.	PO1, PO2, PO3, PO4,PO5, PO6,PO7	PSO1, PSO2, PSO3
				CO6	Explain about the different aberrations in lenses and discuss the methods of minimizing them.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
4	II	PHY2SK	Wave Optics (Lab)	CO1	Gain hands-on experience of using various optical instruments like spectrometer, polarimeter and making finer measurements of wavelength of light using Newton Rings experiment, diffraction grating etc.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO2	Know the techniques involved in measuring the resolving power of telescope and dispersive power of the material of the prism.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO3	Be familiar with the determination of refractive index of liquid by Boy's method and the determination of thickness of a thin wire by wedge method.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO4	Determine the wavelength of diffraction grating-Minimum deviation method	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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# **COURSE -II: (Theory)**

PQs/		Mapping(Cos & POs)  Mapping(Cos & PSOs)													
PSOs COs	PO1 F		PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3					
CO1	3	3	3	3	-	-	2	3	3	2					
CO2	3	2	3	2	-	-	1	3	3	3					
CO3	3	3	1	3	-	-	3	3	2	2					
CO4	3	2	2	3	-	-	2	3	3	2					
CO5	2	3	3	1	3	3	2	3	3	2					
CO6	3	3	2	2	-	-	3	3	3	3					
Average	2.8	2.6	2.3	2.3	3	3	2.1	3	2.8	2.3					

OVER ALL AVERAGE BETWEEN COS & POS =2.58



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# **COURSE -II: (Lab)**

PQs/		Mapping(Cos & POs)  Mapping(Cos & PSOs)													
DCO3	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3					
PSOs COs															
CO1	3	3	3	2	-	3	1	3	3	2					
CO2	3	2	3	2	-	2	2	3	2	3					
CO3	3	3	2	2	-	3	3	2	3	3					
CO4	3	3	3	3	-	3	2	2	3	3					
Average	3	2.7	2.7	2.2	-	2.7	2	2.5	2.7	2.7					

OVER ALL AVERAGE BETWEEN COS & POS =2.55



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**SUBJECT NAME:** Heat and Thermodynamics

Course -III, Semester -III

Course Outcomes: Upon the completion of the course, the student will be able to,

5	III	PHY3SK	Heat and	CO1	Explain the basic aspects of kinetic theory of gases,	PO1, PO2, PO3,	PSO1, PSO2,
			Thermodyna		Maxwell-Boltzmann distribution law, equipartition of	PO4,PO7	PSO3
			mics		energies, mean free path of molecular collisions and the		
					transport phenomenon in ideal gases		
				CO2	Describe on the basic concepts of thermodynamics, the	PO1, PO2, PO3,	PSO1, PSO2,
					first and the second law of thermodynamics, the basic	PO4, PO5, PO7	PSO3
					principles of refrigeration, the concept of entropy, the		
					thermodynamic potentials and their physical		
					interpretations.		
				CO3	Explain the working of Carnot's ideal heat engine,	PO1, PO2, PO3,	PSO1, PSO2,
					Carnot cycle and its efficiency	PO4,PO7	PSO3
				CO4	Develop critical understanding of concept	PO1, PO2, PO3,	PSO1, PSO2,
					of Thermodynamic potentials, the	PO4,PO7	PSO3
					formulation of Maxwell's equations and its		
					applications.		
				CO5	Differentiate between principles and methods to	PO1, PO2, PO3,	PSO1, PSO2,
					produce low temperature and liquefy air and also	PO4, PO6, PO7	PSO3
					understand the practical applications of substances		
					at low temperatures.		
				CO6	•	PO1, PO2, PO3,	PSO1, PSO2,
					the basic theories.	PO4,PO7	PSO3



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6	III	PHY3SK	Heat and	CO1	Determination of Stefan's constant	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			Thermodyna mics (Lab)	CO2	Determination of coefficient of thermal conductivity	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO3	Variation of thermo-emf of a thermocouple with temperature difference at its two junctions	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO4	Calibration of a thermocouple and Specific heat of a liquid.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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# **COURSE -III: (Theory)**

PQs/		Mapping(Cos & POs)  Mapping(Cos & PSOs)													
PSOs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3					
CO1	3	3	2	3	-	-	3	3	3	3					
CO2	3	2	3	2	3	-	2	3	3	2					
CO3	3	3	3	2	-	-	3	3	2	3					
CO4	3	2	3	3	-	-	2	3	3	2					
CO5	2	3	3	3	-	3	2	3	3	2					
CO6	3	3	3	2	-	-	3	3	3	3					
Average	3	2.6	2.8	2.5	3	3	2.5	3	2.8	2.5					

OVER ALL AVERAGE BETWEEN COS & POS =2.77



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# **COURSE -III: (Lab)**

PQs/		Mapping(Cos & POs)												
PSOs	PO1	PO2	PO3	PO3 PO4		PO6	PO7	PSO1	PSOs) PSO2	PSO3				
COs														
CO1	3	3	3	2	-	3	1	3	3	3				
CO2	3	2	3	3	-	3	2	3	2	3				
CO3	3	3	2	3	-	3	3	2	3	2				
CO4	3	3	3	2	-	3	2	3	3	3				
Average	3	2.7	2.7	2.5	-	3	2	2.75	2.75	2.75				

OVER ALL AVERAGE BETWEEN COS & POS =2.65



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7	IV	PHY4SKA	Electricity, Magnetism & Electronics	CO1	Apply Gauss's law to get relations connecting dielectric parameters and their applications.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO2	Derive expressions for the magnetic field at a point due to current carrying conductors using Biot- Savart Law.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO3	Distinguish self and mutual inductance phenomena and their real -time applications	PO1, PO2, PO3, PO4, PO6,PO7	PSO1, PSO2, PSO3
				CO4	Compute Maxwell's electromagnetic wave equations and their role in communications	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO5	Summarize the basic concepts of semiconductors and digital electronics and their applications	PO1, PO2, PO3, PO4,PO5, PO6, PO7	PSO1, PSO2, PSO3
8	IV	PHY4SKA	Electricity, Magnetism & Electronics	CO1	Describe the resonance condition in LCR series and parallel circuits.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			(Lab)	CO2	Study the variation of magnetic field along the axis of a circular coil carrying current using Stewart and Gee's apparatus.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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	Summarize the operation of PN junction diode, Zener diode and a transistor and their V -I characteristics.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
CO4	Verify De Morgan's Theorems, Half and Full Adders.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
	Summarize the basic concepts of semiconductors, and digital electronics and their applications	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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# **COURSE -IV: (Theory)**

PQs/		Mapping(Cos & POs)													
PSOs COs	PO1	PO2	PO3	PO3 PO4 PO5		PO6	PO7	PSO1	PSO2	PSO3					
CO1	3	3	2	3	-	-	2	3	2	3					
CO2	3	3	2	3	-	-	2	3	2	3					
CO3	3	3	2	2	-	3	2	3	2	3					
CO4	3	3	3	2	-	-	3	3	3	3					
CO5	3	3	3	3	3	3	3	3	3	1					
Average	3	3	2.4	2.6	3	3	2.4	3	2.4	2.6					

OVER ALL AVERAGE BETWEEN COS & POS =2.77



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# **COURSE -IV: (Lab)**

PQs/		Mapping(Cos & POs)  Mapping(Cos & PSOs)													
PSOs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3					
CO1	3	3	3	3	-	3	1	3	3	2					
CO2	3	2	3	3	-	2	2	3	2	3					
CO3	3	3	2	2	-	3	3	2	3	3					
CO4	3	3	3	2	1	3	2	2	3	3					
CO5	2	2	2	3	-	3	3	2	3	3					
Average	2.8	2.6	2.6	2.6	-	2.8	2.2	2.4	2.8	2.8					

OVER ALL AVERAGE BETWEEN COS & POS =2.6



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**COURSE NAME:** Modern physics

Course -V, Semester -IV

Course Outcomes: Upon the completion of the course, the student will be able to,

9	IV	PHY4SK	Modern	CO1	Develop an understanding on the concepts of	PO1, PO2, PO3,	PSO1, PSO2,
		В	physics		Atomic and Modern Physics, basicelementary	PO4,PO7	PSO3
					quantum mechanics and nuclear physics.		
				CO2	Develop critical understanding of concept of Matter	PO1, PO2, PO3,	PSO1, PSO2,
					waves and Uncertainty principle	PO4,PO7	PSO3
				CO3	Get familiarized with the principles of quantum	PO1, PO2, PO3,	PSO1, PSO2,
					mechanics and the formulation of Schrodinger	PO4,PO5, PO6,PO7	PSO3
					wave equation and its applications & Examine the		
					basic properties of nuclei, characteristics of		
					Nuclear forces, salientfeatures of Nuclear models		
					and different nuclear radiation detectors.		
					Classify Elementary particles based on their mass,	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	charge, spin, half life and interaction.	PO4,PO7	PSO3
				CO5	Get familiarized with the nano materials, their	PO1, PO2, PO3,	PSO1, PSO2,
					unique properties and applications.	PO4,PO7	PSO3
				001		DO1 DO2 DO2	Dact Dace
				CO6	Increase the awareness and appreciation of	, , ,	PSO1, PSO2,
					superconductors and their practical applications	PO4,PO6, PO7	PSO3
10	13.7	DIIXAGIZ	N/L 1	GO1	D ( ) D1 12 ( ) C 1 ( )	DO1 DO2 DO2	DGO1 DGG2
10	IV	PHY4SK	Modern	CO1	Determine Planck's constant from photocell		PSO1, PSO2,
		В	physics		characteristics.	PO4,PO6,PO7	PSO3



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		(Lab)				
			CO2	Verify inverse square law of light using photovoltaic cell	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			CO3	Determine energy gap of a semiconductor using junction diode.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			CO4	Determine energy gap of a semiconductor using thermistor.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			CO5	Measure charge of an electron and e/m value of an electron by Thomson method.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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**COURSE-V:** (Theory)

POs/			Mapp	oing(Cos &	& POs)			Mappi &PSO	ing(Cos s)	
PSOs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO1	3	3	3	3	-	-	2	3	2	3
CO2	3	3	2	3	-	-	2	3	2	3
CO3	3	3	2	2	3	3	2	3	2	3
CO4	3	3	3	2	-	-	3	3	3	3
CO5	3	3	3	3	-	-	3	3	3	1
CO6	3	2	2	3		3	3	3	3	2
Average	3	2.8	2.5	2.6	3	3	2.5	3	2.5	2.5

OVER ALL AVERAGE BETWEEN COS & POS =2.77

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**COURSE-V: (Lab)** 

POs/			Mapp	ing(Cos &	k POs)			Mapping(Cos & PSOs)					
PSOs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3			
CO1	3	3	3	2	-	3	2	3	3	2			
CO2	3	2	3	1	-	2	2	3	2	3			
CO3	3	3	2	2	-	2	3	2	3	3			
CO4	3	3	3	2	-	3	2	2	3	3			
CO5	2	2	1	3	-	1	3	2	3	3			
Average	2.8	2.6	2.4	2	-	2.2	2.4	2.4	2.8	2.8			

### OVER ALL AVERAGE BETWEEN COS & POS =2.4

11	V	PHY5SKC	Low	CO1	Identify various methods and techniques used to produce	PO1, PO2, PO3,	PSO1,
			Temperature		low temperatures in the Laboratory.	PO4,PO7	PSO2, PSO3



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				CO2	Explain refrigeration and air conditioning.	PO1, PO2, PO3, PO4,PO5, PO7	PSO1, PSO2, PSO3
				CO3	Demonstrate skills through hands on experience about refrigeration components and their accessories in a Refrigerator.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO4	Describe the classification, properties of refrigerants and their effects on environment.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO5	Outline the applications of Low Temperature Physics and refrigeration	PO1, PO2, PO3, PO4,PO6, PO7	PSO1, PSO2, PSO3
12	V	PHY5SKC	Low Temperature	CO1	List out, identify and handle equipment used in low temperature lab.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			Physics & Refrigeration	CO2	Describe the procedures of preparation of Freezing Mixtures.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			(Lab)	CO3	Demonstrate skills on developing various Freezing mixtures and materials.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO4	Explain the various methodologies of creating very low temperatures.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO5	Outline the applications of low temperature physics in day to day life.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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**COURSE NAME:** Low Temperature Physics & Refrigeration

Course -VI, Semester -V

Course Outcomes: Upon the completion of the course, the student will be able to,

**COURSE -VI: (Theory)** 

PQs/				Mapping(Cos & PSOs)						
	PO1	PO2	PO7	PSO1	PSO2	PSO3				
<b>PSOs</b>										
COs										
CO1	3	3	3	3	-	-	2	3	2	3
CO2	3	3	2	3	3	-	2	3	2	3
CO3	3	3	2	2	-	-	2	3	2	3
CO4	3	3	3	2	-	-	3	3	3	3
CO5	3	3	3	3	-	3	3	3	3	1
Average	3	3	2.6	2.6	3	3	2.4	3	2.4	2.6

OVER ALL AVERAGE BETWEEN COS & POS =2.8



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# **COURSE VI: (Lab)**

POs/				Mapping(Cos & PSOs)						
PSOs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO1	3	3	3	3	-	2	2	3	3	2
CO2	3	2	3	2	-	1	2	3	2	3
CO3	3	3	2	3	-	2	3	2	3	3
CO4	3	3	3	3	-	2	2	2	3	3
CO5	2	2	1	3	-	3	3	2	3	3
Average	2.8	2.6	2.4	2.8	-	2	2.4	2.4	2.8	2.8

OVER ALL AVERAGE BETWEEN COS & POS =2.5



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**COURSE NAME:** Solar Energy and Applications

Course -VII,Semester -V

Course Outcomes: Upon the completion of the course, the student will be able to,

13	V	PHY5SKD	Solar Energy and Applications	CO1	Explain the sun's structure, forms of energy coming from the sun and its measurement.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO2	Acquire a critical knowledge on the working of thermal and photovoltaic collectors.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO3	Demonstrate skills related to on solar cells and its applications.	PO1, PO2, PO3, PO4,PO6, PO7	PSO1, PSO2, PSO3
				CO4	Explain testing procedures and fault analysis of thermal collectors and PV modules.	PO1, PO2, PO3, PO4,PO7	PSO1, PSO2, PSO3
				CO5	Comprehend applications of thermal collectors and PV modules.	PO1, PO2, PO3, PO4,PO6, PO7	PSO1, PSO2, PSO3
14	V	PHY5SKD	Solar Energy and Applications	CO1	List out and identify various components of solar thermal collectors and systems, solar photovoltaic modules and systems.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
			(Lab)	CO2	Learn the procedures for measurement of direct, global and diffuse solar radiation. I-V characteristics and efficiency analysis of solar cells and modules.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
				CO3	Demonstrate skills acquired in evaluating the performance of solar cell/ module in connecting them approximately to get required power output.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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		CO4	Acquire skills in identification and elimination of the damaged panels without affecting the output power/array.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3
		CO5	Perform procedures and techniques related to general maintenance solar thermal and photovoltaic modules.	PO1, PO2, PO3, PO4,PO6,PO7	PSO1, PSO2, PSO3



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# **COURSE VII: (Theory)**

PQs/			Mapp	ing(Cos &	k POs)			Mapping(Cos & PSOs)					
PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3			
COs													
CO1	3	3	2	3	-	-	3	3	2	2			
CO2	3	3	2	3	-	-	3	3	3	2			
CO3	3	2	2	2	-	3	2	3	3	2			
CO4	3	3	3	2	-	-	3	3	3	3			
CO5	2	3	3	3	-	3	3	3	3	3			
Average	2.8	2.8	2.4	2.6	-	3	2.8	3	2.8	2.4			

OVER ALL AVERAGE BETWEEN COS & POS =2.73



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# **COURSE -VII: (Lab)**

POs/				Mapping(Cos & PSOs)						
PSOs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO1	3	3	3	2	-	2	3	3	3	3
CO2	3	2	3	2	-	3	2	3	2	3
CO3	3	3	2	3	-	3	3	3	3	3
CO4	3	3	3	2	-	3	2	3	3	3
CO5	3	3	2	3	-	2	3	3	3	3
Average	3	2.8	2.6	2.4	-	2.6	2.6	3	2.8	3

OVER ALL AVERAGE BETWEEN COS & POS =2.66



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# **COURSE NAME:PROJECT**

**Course -VIII, Semester -VI** 

Course Outcomes: Upon the completion of the course, the student will be able to,

			CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.
8	VIII	PROJECT	CO2	Use different Statistical packages for graphical interface, data analysis and interpretation	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.
			CO3	Write a systematic Statistical project report.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.



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**COURSE: VIII - PROJECT** 

			N	Iapping(Co	os & POs)			Mapping(Cos & PSOs)				
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3		
CO1	3	3	2	2	2	3	3	3	2	3		
CO2	3	3	3	2	2	3	3	3	2	3		
CO3	3	2	3	3	2	3	3	3	3	2		
Ave rage	3	3	2.67	2.33	2	3	3	3	2.33	2.67		

OVER ALL AVERAGE BETWEEN COS & POS =2.7



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### **B. Sc THEORY**

	MAPPING (Cos & POs)							MAPPING (Cos & PSOs)		
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COURSE-I	2.8	2.8	2.2	2.4	-	3	2.4	3	2.8	2.4
COURSE-II	2.8	2.6	2.3	2.3	3	3	2.1	3	2.8	2.3
COURSE-	3	2.6	2.8	:2.5	3	3	2.5	3	2.8	2.5
III										
COURSE-	3	3	2.4	2.6	3	3	2.4	3	2.4	2.6
IV										
COURSE-V	3	2.8	2.5	2.6	3	3	2.5	3	2.5	2.5
COURSE-	3	3	2.6	2.6	3	3	2.4	3	2.4	2.6
VI										
COURSE-	2.8	2.8	2.4	2.6	-	3	2.8	3	2.8	2.4
VII										
Average	2.4	2.8	2.4	2.5	3	3	2.4	3	2.6	2.47

OVERALL AVERAGE BETWEEN COs & POs=2.64

OVERALL AVERAGE BETWEEN COs & PSOs=2.69

Levels : = L1 – Remembering 2= L2-Understanding & L3-Applying

3 = L4-Analysing, L5- Evaluating & L6- Creating

# STANDOLLEGE IN MARKET

## ST. ANN'S COLLEGE FOR WOMEN

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### **B. Sc Practical**

			MA	PPING (Cos	s & POs)			MAPPI	NG (Cos &	k PSOs)
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COURSE-I	2.8	2.6	2.6	-	2.4	-	2.2	2.4	2.8	2.8
COURSE-II	3	2.7	2.7	2.2	-	2.7	2	2.5	2.7	2.7
COURSE-	3	2.7	2.7	2.5	-	3	2	2.75	2.75	2.75
III										
COURSE-	2.8	2.6	2.6	2.6	-	2.8	2.2	2.4	2.8	2.8
IV										
<b>COURSE-V</b>	2.8	2.6	2.4	2	-	2.2	2.4	2.4	2.8	2.8
COURSE-	2.8	2.6	2.4	2.8	-	2	2.4	2.4	2.8	2.8
VI										
COURSE-	3	2.8	2.6	2.4	-	2.6	2.6	3	2.8	3
VII										
Average	2.88	2.65	2.57	2.41	2.4	2.55	2.25	2.54	2.77	2.8

### OVERALL AVERAGE BETWEEN COs & POs=2.53

OVERALL AVERAGE BETWEEN COs & PSOs=2.7

Levels : = L1 – Remembering 2= L2-Understanding & L3-Applying 3 = L4-Analysing, L5- Evaluating & L6- Creating



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## **DEPARTMENT OF STATISTICS**

## STATISTICS -THEORY

Sl. No	Semes ter	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)		
				CO1	knowledge of Statistics and its scope and importance in various areas such as Medical, Engineering, Agricultural and Social Sciences etc.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.		
		DESCRIPTI	DESCRIPTI	DESCRIPTI	CO2	knowledge of various types of data, their organization and evaluation of summary measures such as measures of central tendency and dispersion etc.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.	
1	I UG-	VE STATISTICS	CO3	knowledge of other types of data reflecting quality characteristics including concepts of independence and association between two attributes,	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.			
						CO4	Insights into preliminary exploration of different types of data.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Knowledge of correlation, regression analysis, regression diagnostics, partial and multiple correlations.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.		
			PROBABILI TY	CO1	Ability to distinguish between random and non-random experiments,	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3		
2	102   AND		AND DISTRIBUTI	CO2	Knowledge to conceptualize the probabilities of events including frequentist and axiomatic approach. Simultaneously, they will learn the notion of conditional probability including the concept of Baye's Theorem.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.		

				CO3	Knowledge related to concept of discrete and continuous random variables and their probability distributions including expectation and moments.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
				CO4	Knowledge of important discrete and continuous distributions such as Binomial, Poisson, Geometric, Negative Binomial and Hypergeometric, Normal, uniform, exponential, beta and gamma distributions.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Acumen to apply standard discrete and continuous probability distributions to different situations.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Concept of law large numbers and their uses	PO1, PO2, PO3, PO4. PO7.	PSO1, PSO2, PSO3.
				CO2	Concept of central limit theorem and its uses in statistics	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
3	m   UG-	STATISTIC AL	СОЗ	Concept of random sample from a distribution, sampling distribution of a statistic, standard error of important estimates such as mean and proportions.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.	
		102	INFERENCE	CO4	Knowledge about important inferential aspects such as point estimation, test of hypotheses and associated concepts.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Knowledge about inferences from Binomial, Poisson and Normal distributions as illustrations.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO6	Concept about non-parametric method and some important non-parametric tests.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Introduced to various statistical sampling schemes such as simple, stratified and systematic sampling.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3
		TECHNI	SAMPLING TECHNIQU ES AND	CO2	An idea of conducting the sample surveys and selecting appropriate sampling techniques.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
4	IV UG- 102	DESIGNS OF EXPERIME	СОЗ	Knowledge about comparing various sampling techniques.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.	
	NTS		CO4	Carry out one way and two way Analysis of Variance.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.	

				CO5	Understand the basic terms used in design of experiments.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.															
				CO6	Use appropriate experimental designs to analyze the experimental data.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.															
				CO1	Time series data, its applications to various fields and components of time series.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.															
				CO2	Fitting and plotting of various growth curves such as modified exponential, Gompertz and logistic curve and also Fitting of trend by Moving Average method.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.															
				СОЗ	Measurement of Seasonal Indices by Ratio-to-Trend, Ratio-to-Moving Average and Link Relative methods.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.															
5	v		APPLIED STATISTICS				APPLIED STATISTICS		CO4	Interpret and use a range of index numbers commonly used in the business sector.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3										
				CO5	Perform calculations involving simple and weighted index numbers.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3, PSO4.															
				_	CO6	Measuring of consumer price index and perform calculations.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.														
								CO7	Construction and implementation of life tables, Population growth curves, population estimates and projections.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.											
																			CO1	To know the scope of Operations Research.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
	VI UG- 102	OPERA TIONS	CO2	To link the OR techniques with business environment and life sciences.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																
6		RESEARCH	CO3	To convert real life problems into mathematical models.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																
			CC		To find a solution to the problem in different cases.	PO1, PO2, PO3, PO4, PO5, PO7.	PSO1, PSO2, PSO3.															

				CO5	To inculcate logical thinking to find a solution to the problem.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
				CO1	To solve the problems in logistics.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
		OPERA	OPERA	CO2	To find a solution for the problems having space constraints	PO1, PO2, PO3, PO4. PO7	PSO1, PSO2, PSO3.
7	X/11	UG-	TIONS	CO3	To minimize the total elapsed time in an industry by efficient	PO1, PO2, PO3,	PSO1, PSO2,
7	VII	102 RESEARCH		CO3	allocation of jobs to the suitable persons.	PO4, PO6, PO7.	PSO3.
			- II	CO4	To find a solution for an adequate usage of human resources	PO1, PO2, PO3,	PSO1, PSO2,
				To this woodwich for an aboquito usuge of human resources	PO4, PO6, PO7.	PSO3.	
				COS	To find the most plausible solutions in industries and agriculture	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	when a random environment exists.	PO4, PO5, PO6,	PSO3.
						PO7.	DCO1 DCO2
				CO1	Analyze and interpret and take appropriate decisions in solving real	PO1, PO2, PO3,	PSO1, PSO2, PSO3.
				COI	life problems using statistical tools.	PO4, PO5, PO6, PO7.	PSO3.
						PO1, PO2, PO3,	PSO1, PSO2,
8	VIII UG-		PROJECT	CO2	Use different Statistical packages for graphical interface, data analysis	PO4, PO5, PO6,	PSO3.
	102	11100201		and interpretation	PO7.	1505.	
					PO1, PO2, PO3,	PSO1, PSO2,	
			CO3	Write a systematic Statistical project report.	PO4, PO5, PO6,	PSO3.	
				PO7.			

# STATSITICS - PRACTICALS

Sl. No	Semes ter	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)		
				CO1	Interpret Graphical and Diagrammatic data presentation which makes it easier for a common man to understand the given data.	PO1,PO2,PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3		
			CO2	Determine Various measures of Central Tendency and Dispersion and interpret the results.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3			
			DESCRIPTIV E		CO3	Interpret problem solving skills using Moments	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3	
1	I	102 STATISTICS -	CO4	Apply the Karl Pearson's coefficient of Skewness and Bowley's Coefficient of Skewness for the given data and compare the results.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3			
			PRACTICALS	PRACTICALS	CO5	Apply the Curve fitting Methods to analyze the given Bivariate data.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3	
						CO6	To Apply and Solve the given Bivariate data using Correlation and Regression methods.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3
						CO7	Apply association and Contingency Techniques for Qualitative data using Attributes and compare the results	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3
			PROBABILIT	CO1	Identify different types of Real Life Problems	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3		
2	II	UG- 102	Y THEORY AND DISTRIBUTI	CO2	Apply and analyze the Discrete Probability distributions – Binomial, Poisson, Negative Binomial and Geometric – to the real life situations to draw valid conclusions.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3		
			ONS - PRACTICALS	CO3	Interpret Continuous Probability distributions – Normal and Exponential – in day to day life to draw valid inferences.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3		
3	III	UG- 102	STATISTICA L	CO1	Apply Large Sample Tests to solve different real life situations.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3		

			INFERENCE -	CO2	Apply Small Sample Tests to solve different real life situations.	PO1, PO2, PO3, PO4,	PSO1, PSO2,																
			PRACTICALS	CO2	Apply Sman Sample Tests to solve unferent fear me situations.	PO5, PO6, PO7.	PSO3																
				CO3	Distinguish between Parametric and Non-Parametric tests and apply	PO1, PO2, PO3, PO4,	, ,																
				CO3	them for the real life data problems.	PO5, PO6, PO7.	PSO3																
				GO 1	Design and Implement Surveys with the random sampling designs –	PO1, PO2, PO3, PO4,	PSO1, PSO2,																
			SAMPLING TECHNIQUE	CO1	Simple, Stratified and Systematic.	PO5, PO6, PO7.	PSO3																
		HC	S AND	CO2	Compute and Interpret the results of ANOVA and F-test.	PO1, PO2, PO3, PO4,	PSO1, PSO2,																
4	IV	UG- 102	DESIGNS OF		•	PO6, PO7.	PSO3																
		102	EXPERIMEN	CO3	Apply the Basic Designs of Experiments – CRD, RBD and LSD – to	PO1, PO2, PO3, PO4,	,																
			TS -		analyze real life situations.	PO6, PO7.	PSO3																
			PRACTICALS	CO4	Demonstrate how to analyze and interpret the results of the full	PO1, PO2, PO3, PO4,	,																
					Factorial Designs.	PO7.	PSO3																
				CO1	Apply various Trend methods to solve the different Time Series data	PO1, PO2, PO3, PO4,																	
				in real life situations.	PO6, PO7.	PSO3																	
		APPLIED	APPLIED STATISTICS - PRACTICALS									CO2	Discuss and Analyze the economy and Standard of living in different	PO1, PO2, PO3, PO4,									
5	$\mathbf{v}$	UG-		002	countries using Index Numbers.	PO6, PO7.	PSO3																
	•	102		PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	PRACTICALS	CO3	Interpret the Methods of predicting Birth and Death Rates.	PO1, PO2, PO3, PO4,	PSO1, PSO2,
												PO6, PO7.	PSO3										
				CO4	Construct the Life Tables for living beings from different age groups.	PO1, PO2, PO3, PO4,	· · ·																
						PO6, PO7.	PSO3																
				CO1	To construct a linear programming problems to the given data.	PO1, PO2, PO3, PO4,																	
			OPERA	OPERA			10 constitute a missia programming processing to the grant cumin	PO7.	PSO3														
							,								C	CO2	Apply Graphical Method, Simplex Method, Big-M method and Two-	PO1, PO2, PO3, PO4,	· · ·				
					CO2	Phase Simplex Methods to solve Optimization Problems.	PO6, PO7.	PSO3															
6	VI	UG- RESEARCH –	CO3	To determine IBFS and OS to the given Linear Programming	PO1, PO2, PO3, PO4,	PSO1, PSO2,																	
	102	I -	COS	Problems.	PO7.	PSO3																	
		PRACTICALS	CO4	Demonstrate how to apply the Principle of Duality to solve the	PO1, PO2, PO3, PO4,	PSO1, PSO2,																	
			CO4	Operations Research Problems.	PO7.	PSO3																	
				COS	Interpret the Dyahlams based on Doct Optimal Analysis	PO1, PO2, PO3, PO4,	PSO1, PSO2,																
				CO5	Interpret the Problems based on Post-Optimal Analysis.	PO7.	PSO3																

			CO1	Apply and Analyze various types of Deterministic Models –	PO1, PO2, PO3, PO4,	PSO1, PSO2,	
		OPERA TIONS UG- DESEARCH		COI	Transportation Problem and Assignment Problem.	PO6, PO7.	PSO3
			CO2	Maximize the Profits or Minimize the Cost of and Industry by	PO1, PO2, PO3, PO4,	PSO1, PSO2,	
			CO2	efficient allocation of Jobs to the suitable Persons.	PO6, PO7.	PSO3	
7	VII		RESEARCH –	CO3	Minimise the Total elapsed time of the projects by using CPM and	PO1, PO2, PO3, PO4,	PSO1, PSO2,
,	V 11	102	II -	л –   СОЗ	PERT Models.	PO7.	PSO3
			PRACTICALS	CO4	Solve and Interpret the simple models of Game Theory.	PO1, PO2, PO3, PO4,	PSO1, PSO2,
		TRACTICALS		CO4	Solve and interpret the simple models of Game Theory.	PO7.	PSO3
				CO5	Demonstrate how to apply the Linear Programming Method for	PO1, PO2, PO3, PO4,	PSO1, PSO2,
			CO3	Solving the Games.	PO7.	PSO3	

# I YEAR – B.Sc – I SEMESTER – PAPER – I

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)			
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	2	3	2	2	3	3	3	2	3	
CO2	2	3	3	3	2	2	3	3	3	3	
CO3	3	3	3	3	-	2	3	2	2	3	
CO4	2	2	3	3	-	2	3	3	2	2	
CO5	3	3	3	3	2	3	3	3	3	3	
Ave rage	2.6	2.6	3	2.8	2	2.4	3	2.8	2.4	2.8	

OVER ALL AVERAGE BETWEEN COS & POS = 2.63

# I YEAR – B.Sc – I SEMESTER – PAPER – I - PRACTICALS

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	-	2	2	3	3	3
CO2	3	3	3	3	-	2	3	3	3	3
CO3	2	3	2	2	-	1	2	3	2	2
CO4	3	3	3	3	-	2	2	2	3	3
CO5	3	3	3	2	-	2	3	3	2	2
CO6	3	3	3	2	2	3	3	3	2	2
CO7	2	3	2	2	-	-	2	2	2	2
Ave rage	2.71	3	2.71	2.43	2	2	2.43	2.71	2.43	2.43

OVER ALL AVERAGE BETWEEN COS & POS = 2.47

# I YEAR – B.Sc – II SEMESTER – PAPER – II

		MAPPING(COs & PSOs)												
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3				
CO1	3	3	3	2	-	-	3	3	2	2				
CO2	3	3	3	3	-	2	3	3	3	3				
CO3	3	3	3	3	-	-	2	2	2	3				
CO4	2	2	3	3	2	2	3	3	2	2				
CO5	3	3	3	3	-	3	3	3	3	3				
Ave rage	2.8	2.8	3	2.8	2	2.3	2.8	2.8	2.4	2.6				

OVER ALL AVERAGE BETWEEN COS & POS = 2.64

# I YEAR – B.Sc – II SEMESTER – PAPER – II – PRACTICALS

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	3	-	2	3	3	3	2
CO2	3	3	3	3	-	3	3	3	3	3
CO3	3	3	3	3	-	3	3	3	3	3
Ave rage	3	2.67	3	3	-	2.67	3	3	3	2.67

OVER ALL AVERAGE BETWEEN COS & POS = 2.89

# II YEAR – B.Sc – III SEMESTER – PAPER - III

				MAPP	PING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	2	-	-	2	3	2	2
CO2	3	2	3	3	-	-	3	2	3	3
CO3	3	3	3	3	-	2	2	3	3	2
CO4	3	3	3	3	-	3	3	3	3	3
CO5	3	3	3	3	-	3	3	3	3	3
CO6	3	3	3	3	-	3	2	3	2	3
Ave rage	3	2.83	3	2.83	-	2.75	2.5	2.8	2.67	2.67

OVER ALL AVERAGE BETWEEN COS & POS = 2.82

# II YEAR – B.Sc – III SEMESTER – PAPER - III - PRACTICALS

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	1	3	3	3	3	3
CO2	3	3	3	3	2	3	3	3	3	2
CO3	3	3	2	2	2	3	3	3	2	2
Ave rage	3	3	2.67	2.67	1.67	3	3	3	2.67	2.33

OVER ALL AVERAGE BETWEEN COS & POS = 2.72

# II YEAR – B.Sc – IV SEMESTER – PAPER – IV

				MAPP	PING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	-	2	3	3	3	2
CO2	3	2	3	3	3	3	3	3	3	3
CO3	3	2	3	3	2	3	3	2	3	3
CO4	3	3	3	2	2	2	3	3	2	3
CO5	3	2	3	2	-	-	3	2	2	2
CO6	3	3	2	2	1	2	3	3	3	3
Ave rage	3	2.5	2.83	2.5	2	2.4	3	2.67	2.67	2.67

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

## II YEAR – B.Sc – IV SEMESTER – PAPER – IV – PRACTICALS

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	3	3	3	3	2
CO2	3	3	2	2	-	3	3	3	2	3
CO3	3	3	3	2	-	3	3	3	3	3
CO4	3	2	3	3	-	-	3	3	2	2
Ave rage	3	2.75	2.75	2.5	2	3	3	3	2.5	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.71

# II YEAR – B.Sc – IV SEMESTER – PAPER – V

				MAPP	ING (COs & PS	(Os)				
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	2	3	3	2	2
CO2	3	3	3	3	1	3	3	3	3	3
CO3	3	2	3	3	2	2	3	3	2	3
CO4	3	3	3	2	1	3	3	3	2	2
CO5	3	3	3	3	1	2	3	3	3	2
CO6	3	3	3	3	2	2	3	3	3	2
CO7	3	3	3	3	1	2	3	3	3	2
Ave rage	3	2.71	2.86	2.71	1.43	2.29	3	3	2.57	2.29

OVER ALL AVERAGE BETWEEN COS & POS = 2.57

## II YEAR – B.Sc – IV SEMESTER – PAPER – V – PRACTICALS

				MAPP	ING(COs & PSO	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	-	2	3	3	3	3
CO2	3	3	3	2	-	3	3	3	2	3
CO3	3	2	2	2	-	2	3	3	3	2
CO4	3	3	2	2	-	2	3	3	2	2
Ave rage	3	2.75	2.50	2.25	-	2.25	3	3	2.5	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.625

# III YEAR – B.Sc – V SEMESTER – PAPER - VI

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	3	-	-	2	3	2	2
CO2	3	2	3	3	1	2	3	3	2	2
CO3	3	2	3	3	2	2	3	2	3	3
CO4	3	3	2	2	2	-	3	3	3	2
CO5	3	3	3	3	-	-	3	3	3	2
Ave rage	3	2.4	2.8	2.8	1.67	2	2.8	2.8	2.6	2.2

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

# III YEAR – B.Sc – V SEMESTER – PAPER - VI – PRACTICALS

				MAPP	ING(COs & PSC	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	2	-	-	3	3	2	2
CO2	3	3	3	3	-	2	3	3	3	3
CO3	3	3	2	2	-	-	2	3	2	3
CO4	3	3	2	3	-	-	2	3	3	2
CO5	3	3	2	2	-	-	2	3	2	2
Ave rage	3	2.8	2.4	2.4	-	2	2.4	3	2.4	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

# III YEAR – B.Sc – V SEMESTER – PAPER - VII

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2	2	-	-	3	3	2	3
CO2	2	3	3	2	-	1	3	3	2	3
CO3	3	3	3	3	1	3	3	3	2	2
CO4	3	3	3	3	2	2	3	3	3	2
CO5	3	3	3	3	2	2	3	3	3	2
Ave rage	2.8	2.8	2.8	2.6	1.67	2	3	3	2.4	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.52

# III YEAR – B.Sc – V SEMESTER – PAPER – VII- PRACTICALS

				MAPP	ING(COs & PSC	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	2	-	2	3	3	2	3
CO2	3	3	3	3	-	3	3	3	3	3
CO3	3	3	3	2	-	-	2	3	3	2
CO4	3	3	3	3	-	-	3	3	3	3
CO5	3	3	3	2	-	-	2	3	3	2
Ave rage	3	3	3	2.4	-	2.5	2.6	3	2.8	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.75

# III YEAR – B.Sc – VI SEMESTER – PAPER- VIII- PROJECT

				MAPP	ING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	3	3	2	3
CO2	3	3	3	2	2	3	3	3	2	3
CO3	3	2	3	3	2	3	3	3	3	2
Ave rage	3	3	2.67	2.33	2	3	3	3	2.33	2.67

OVER ALL AVERAGE BETWEEN COS & POS = 2.7

# III YEAR – B.Sc – STATISTICS- THEORY

			MA	APPING (COS	s & POs)				APPIN Os & PS	
COs	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communica tion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
PAPER -I	2.6	2.6	3	2.8	2	2.4	3	2.8	2.4	2.8
PAPER -II	2.8	2.8	3	2.8	2	2.3	2.8	2.8	2.4	2.6
PAPER - III	3	2.83	3	2.83	-	2.75	2.5	2.8	2.67	2.67
PAPER -IV	3	2.5	2.83	2.5	2	2.4	3	2.67	2.67	2.67
PAPER -V	3	2.71	2.86	2.71	1.43	2.29	3	3	2.57	2.29
PAPER -VI	3	2.4	2.8	2.8	1.67	2	2.8	2.8	2.6	2.2
PAPER - VII	2.8	2.8	2.8	2.6	1.67	2	3	3	2.4	2.4
PAPER - VIII	3	3	2.67	2.33	2	3	3	3	2.33	2.67

Ave	2.90	2.71	2.87	2.67	1 92	2.4	2.89	2.86	2.51	2.54
rage	2.90	2.71	2.07	2.07	1.02	2.4	2.09	2.00	2.51	2.34

# III YEAR – B.Sc – STATISTICS- PRACTICALS

			MA	PPING (COs	s & POs)			MAPPING (COs & PSOs)			
COs	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communica tion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
PAPER -I	2.71	3	2.71	2.43	2	2	2.43	2.71	2.43	2.43	
PAPER -II	3	2.67	3	3	-	2.67	3	3	3	2.67	
PAPER - III	3	3	2.67	2.67	1.67	3	3	3	2.67	2.33	
PAPER -IV	3	2.75	2.75	2.5	2	3	3	3	2.5	2.5	
PAPER -V	3	2.75	2.50	2.25	-	2.25	3	3	2.5	2.5	
PAPER -VI	3	2.8	2.4	2.4	-	2	2.4	3	2.4	2.4	
PAPER - VII	3	3	3	2.4	-	2.5	2.6	3	2.8	2.6	
Ave rage	2.96	2.85	2.72	2.52	1.89	2.49	2.78	2.96	2.61	2.49	

OVER ALL AVERAGE BETWEEN COS & POS =

OVER ALL AVERAGE BETWEEN COS & PSOS =

Levels : 1 = L1- Remembering

2 = L2- Understanding & L3- Applying

3 = L4-Analyzing, L5-Evaluating & L6- Creating



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## DEPARTMENT OF COMPUTER SCIENCE

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)				
				CO1	Understand the basic terminology used in computer programming	PO1, PO2, PO3, PO4, PO6,PO7	PSO1, PSO2, PSO3				
				CO2	Write, compile and debug programs in C language.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.				
				CO3	Use different data types in a computer program	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.				
1	I	C1	Problem solving in c			•	•	CO4	Design programs involving decision structures, loops and functions	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
		-		CO5	Understand the dynamics of memory by the use of pointers and Structures.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.				
				CO6	Apply different operations in File handling.	PO1, PO2, PO3, PO4, PO6,PO7	PSO1, PSO2, PSO3.				
					CO1	Identify data structures suitable to solve problems	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3			
2	'       (2)		DATA STRUCTURES	CO2	Developing algorithms	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.				
				CO3	Identifying the use of Time and Space Complexity.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.				



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				CO4	Implementing different sorting & searching techniques.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO1	Gain knowledge of Database, DBMS and SQL	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			DATA BASE MANAGEMEN	CO2	Learn SQL as best analysis tool for extract data in different ways	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
3	III	C3		СОЗ	Create a small database using SQL.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
		T SYSTEM		CO4	Able to construct SQL queries to Store, Retrieve data in database	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Model database using ER Diagrams and design database schemas based on the model	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			OBJECT	CO1	Understand the concept and underlying principles of Object-Oriented Programming	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				OBJECT	CO2	Understand how object-oriented concepts are incorporated into the Java programming language	PO1, PO2, PO3, PO4, PO6,PO7.
4	IV	C4	ORIENTED PROGRAMMI NG THROUGH	СОЗ	Develop problem-solving and programming skills using OOP concept	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			JAVA	CO4	Understand the benefits of a well structured program	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO5	Develop the ability to solve real-world problems through software development in high-level programming language like Java	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO6	Develop efficient Java applets and applications using OOP concept	PO1, PO2, PO3,	PSO1, PSO2,



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						PO4, PO6,PO7.	PSO3.
				CO1	Understand the main components and Structure of Operating	PO1, PO2, PO3,	PSO1, PSO2,
				001	System& their functions	PO4,PO6,PO7.	PSO3.
				CO2	Analyze various ways of Process Management & CPU Scheduling	PO1, PO2, PO3,	PSO1, PSO2,
				002	Algorithms	PO4, PO7.	PSO3.
5	IV	C5	OPERATING		Evaluate various device and resources like Memory, Time and CPU	PO1, PO2, PO3,	PSO1, PSO2,
			SYSTEM	CO3	Management techniques in distributed systems.	PO4, PO7.	PSO3.
					Apply different methods for Preventing Deadlocks in a Computer	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	System.	PO7.	PSO3.
				GO 1	To understand the web architecture and web services.	PO1, PO2, PO3,	PSO1, PSO2,
				CO1		PO4, PO6,PO7.	PSO3.
				CO2	To practice latest web technologies and tools by conducting	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	experiments	PO4, PO6,PO7.	PSO3.
			WEB INTERFACE DESIGNING		To design interactive web pages using HTML and Style sheets.	PO1, PO2, PO3,	PSO1, PSO2,
6				CO3	To design interactive web pages using TTTVIE and Style sneets.	PO4, PO5, PO6,	PSO3.
	$\mathbf{V}$	C6				PO7.	
			TECHNOLOGI		To study the framework and building blocks of Integrated	PO1, PO2, PO3,	PSO1, PSO2,
			ES	CO4	Development Environment	PO4, PO5, PO6,	PSO3.
					•	PO7.	DGG1 DGG2
				005	To provide solutions by identifying and formulating IT related	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	problems.	PO4, PO6,PO7.	PSO3.
				CO1	Write a simple program in PHP	PO1, PO2, PO3,	PSO1, PSO2,
			WEB	COI		PO4, PO6,PO7.	PSO3.
		APPLICATION	CO2	Understand how to use regular expressions, handle and validate data	PO1, PO2, PO3,	PSO1, PSO2,	
.7	$\mathbf{V}$	C7	DESIGNING	CO2	using PHP	PO4, PO6,PO7.	PSO3.
			WITH PHP	CO3 Apply In-Built functions and Create user defined functions in PHP programming		PO1, PO2, PO3,	PSO1, PSO2,
			&MYSQL (			PO4, PO5, PO6,	PSO3.
					L2	PO7.	



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			CO4	Write programs to create dynamic &interactive web based applications using PHP & MYSQL.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.
8	8 <b>V</b> I	LONG INTERI PROJEG	NSHIP CO2	Use different Statistical packages for graphical interface, data analysis and interpretation	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.
			CO3	Write a systematic Statistical project report.	PO1, PO2, PO3, PO4, PO5,PO6, PO7.	PSO1, PSO2, PSO3.



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## I YEAR - BSC - I SEMESTER - COURCE- C1 - THEORY

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		2	3	3	3	3
CO2	3	3	3	3		2	3	3	3	3
CO3	3	3	3	3		2	3	3	3	3
CO4	3	3	3	3		2	3	3	3	3
CO5	3	3	3	3		2	3	3	3	3
CO6	3	3	3	3		2	3	3	3	3
Ave rage	3	3	3	3		2	3	3	3	3

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# I YEAR – BSC – II SEMESTER – COURCE– C2 – THEORY

			MAPPING(COs & PSOs)							
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		3	3	3	3	3
CO2	3	3	3	3	1	3	3	3	3	3
CO3	3	3	3	3		3	3	3	3	3
CO4	3	3	3	3		3	3	3	3	3
Ave rage	3	3	3	3	1	3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.71



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## II YEAR – BSC – III SEMESTER – COURCE– C3 - THEORY

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	3		3	3	3	3	3
CO2	3	2	3	3	1	3	3	3	3	3
CO3	3	3	3	3		3	3	3	3	3
CO4	3	3	3	3		3	3	3	3	3
C05	3	3	3	3	1	2	3	3	3	3
Ave rage	3	2.6	3	3	1	2.8	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.62



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## II YEAR - BSC- IV SEMESTER - COURCE- C4 - THEORY

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	1	2	3	3	3	3
CO2	3	3	2	3		3	3	3	3	3
СОЗ	3	3	3	3	2	3	3	3	3	3
CO4	3	3	3	3		3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3		3	3	3	3	3
Ave rage	3	3	2.8	3	2	2.8	3	3	3	3



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## II YEAR - BSC - IV SEMESTER - COURCE- C5 - THEORY

		MAPPING(COs & POs)										
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3		
CO1	3	3	2	3		2	3	3	3	1		
CO2	3	3	3	2			3	3	3	2		
CO3	3	3	3	2			3	3	3	2		
CO4	3	3	3				3	3	3	1		
Ave rage	3	3	2.75	2.3		2	3	3	3	1.5		

OVER ALL AVERAGE BETWEEN COS & POS =2.67



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## III YEAR - BSC- VSEMESTER - COURCE- C6 - THEORY

	MAPPING(COs & POs)							MAPPING(COs & PSOs)		
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		1	2	3	2	3
CO2	3	3	3	3		3	3	3	3	3
СОЗ	3	3	3	3	1	2	3	3	3	3
CO4	3	3	3	3	1	2	3	3	3	3
CO5	3	3	3	3		3	3	3	3	3
Ave rage	3	3	3	3	1	2.2	2.8	3	2.8	3



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#### III YEAR - BSC - V SEMESTER - COURCE- C7 - THEORY

			MAPPING(COs & PSOs)							
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		1	2	3	2	3
CO2	3	3	3	3		3	3	3	3	3
CO3	3	3	3	3	1	2	3	3	3	3
CO4	3	3	3	3	1	2	3	3	3	3
Ave rage	3	3	3	3	1	2	2.75	3	2.75	3

OVER ALL AVERAGE BETWEEN COS & POS =2.6



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## III YEAR – BSC– THEORY

				MAPPING (CO. 6, PGO.)						
		Γ		APPING (CO	<u>,                                      </u>	1	T	(C	Os & PS	SOs)
Course Code	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communica tion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life- Long Learning	PSO1	PSO2	PSO3
C1	3	3	3	3		2	3	3	3	3
C2	3	3	3	1	3	3	3	3	3	3
С3	3	2.6	3	3	1	2.8	3	3	3	3
C4	2	3	2.8	3	2	2.8	3	3	3	3
C5	3	3	2.75	2.3		2	3	3	3	1.5
C6	3	3	3	3	1	2.2	2.8	3	2.8	3
C7	3	3	3	3	1	2	2.75	3	2.75	3
AVERAGE	2.9	2.98	2.82	2.83	1.6	2.35	2.99	2.89	2.69	2.87



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#### **PRACTICALS**

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	Write, compile and debug programs in C language.	PO1, PO2, PO3,	PSO1, PSO2,
						PO4, PO6,PO7. PO1, PO2, PO3,	PSO3. PSO1, PSO2,
				CO2	Implement different data types in a computer program	PO4, PO6,PO7.	PSO3.
				CO3	Design programs involving decision structures, loops and functions	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
1	I	C1	Problem solving			PO1, PO2, PO3,	PSO1, PSO2,
			in c	CO4	Write simple programs on pointers and Structures.	PO4, PO6,PO7.	PSO3.
				CO4 Write simple programs on pointers and seructures.			
				CO5	Write operations in File handling.	PO1, PO2, PO3, PO4, PO6,PO7	PSO1, PSO2, PSO3.
				CO1	Implement data structures suitable for liner & non liner structures.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3
2	П	C2	DATA STRUCTURES	CO2	Design a program on linear Data structures.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			STRUCTURES			PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
3	III	C3	DATA BASE MANAGEMEN	CO1 Create a small database using SQL.		PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			T SYSTEM	CO2	Write commands on SQL queries to Store, Retrieve data in database	PO1, PO2, PO3,	PSO1, PSO2,



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						PO4, PO6, PO7.	PSO3.
						PO1, PO2, PO3,	PSO1, PSO2,
				CO3	Draw the ER Diagrams and design database schemas based on the model	PO4, PO5, PO6,	PSO3.
						PO7.	
					Develop problem-solving and programming skills using OOP concept	PO1, PO2, PO3,	PSO1, PSO2,
				CO1		PO4, PO5, PO6,	PSO3.
			OD IE CIT			PO7.	
			OBJECT	CO2	Design a well structured program.	PO1, PO2, PO3,	PSO1, PSO2,
1	17.7	64	ORIENTED	CO2		PO4, PO6,PO7.	PSO3.
4	IV	C4	PROGRAMMI NG THROUGH		Develop the ability to solve real-world problems through software	PO1, PO2, PO3,	PSO1, PSO2,
			JAVA	CO3	development in high-level programming language like Java	PO4, PO5, PO6,	PSO3.
			JAVA			PO7.	
				GO 4	Develop efficient Java applets and applications using OOP concept	PO1, PO2, PO3,	PSO1, PSO2,
				CO4		PO4, PO6,PO7.	PSO3.
						PO1, PO2, PO3,	PSO1, PSO2,
				CO1	Design Process Management & CPU Scheduling Techniques.	PO4, PO7.	PSO3.
_	17.7	C.F.	OPERATING	CO2	Write CPU Management techniques in distributed systems.	PO1, PO2, PO3,	PSO1, PSO2,
5	IV	C5	SYSTEM	CO2		PO4, PO7.	PSO3.
					Apply different techniques for Preventing Deadlocks in a Computer	PO1, PO2, PO3,	PSO1, PSO2,
				CO3	System.	PO7.	PSO3.
			WED		To Write letest web to should size and to als has conducting	PO1, PO2, PO3,	PSO1, PSO2,
			WEB INTERFACE	CO1	To Write latest web technologies and tools by conducting	PO4, PO6,PO7.	PSO3.
6	$\mathbf{v}$	C6	DESIGNING		experiments		
	<b>v</b>	CO	TECHNOLOGI		To design interactive web pages using HTML and Style sheets.	PO1, PO2, PO3,	PSO1, PSO2,
			ES	CO2	10 design interactive web pages using 111 vil and style sheets.	PO4, PO5, PO6,	PSO3.
			LO			PO7.	



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				CO3	To framework and building blocks of Integrated Development Environment	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			WEB	CO1	Write a simple program in PHP	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
.7	V	C7	APPLICATION DESIGNING	CO2	Write simple programs on handle and validate data using PHP	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			WITH PHP &MYSQL		Write programs to create dynamic &interactive web based applications using PHP & MYSQL.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Analyze and interpret and take appropriate decisions in solving real life problems using statistical tools.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
8	VI	VI LONG TERM INTERNSHIP PROJECT		CO2	Use different Statistical packages for graphical interface, data analysis and interpretation	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO3	Write a systematic Statistical project report.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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#### I YEAR - BSC - I SEMESTER - COURCE- C1 - PRACTICAL

		MAPPING(COs & POs)									
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communication Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities , Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	3	3	3		2	3	3	3	3	
CO2	3	3	3	3		2	3	3	3	3	
CO3	3	3	3	3		2	3	3	3	3	
CO4	3	3	3	3		2	3	3	3	3	
CO5	3	3	3	3		2	3	3	3	3	
Ave rage	3	3	3	3		2	3	3	3	3	

OVER ALL AVERAGE BETWEEN COS & POS = 2.8

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#### I YEAR – BSC – II SEMESTER – COURCE– C2 - PRACTICAL

		MAPPING(COs & PSOs)								
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		3	3	3	3	3
CO2	3	3	3	3		3	3	3	3	3
CO3	3	3	3	3	-	3	3	3	3	3
Ave rage	3	3	3	3		3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.71

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## II YEAR - BSC - III SEMESTER - COURCE- C3 - PRACTICAL

		MAPPING(COs & PSOs)								
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		3	3	3	3	3
CO2	3	3	3	3		3	3	3	3	3
CO3	3	3	3	3	1	2	3	3	3	3
Ave rage	3	3	3	3	1	2.6	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.65

## STANISHER MUNICIPALITY

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## II YEAR - BSC- IV SEMESTER - COURCE- C4 - PRACTICAL

			MAPPING(COs & PSOs)							
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	3	3	3	3	3
CO2	3	3	3	3		3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3		3	3	3	3	3
Ave rage	3	3	3	3	2.5	3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.9



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#### II YEAR - BSC - IV SEMESTER - COURCE- C5 - PRACTICAL

		MAPPING(COs & PSOs)								
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	2			3	3	3	2
CO2	3	3	3	2			3	3	3	2
CO3	3	3	3				3	3	3	2
Ave rage	3	3	3	2			3	3	3	2

#### OVER ALL AVERAGE BETWEEN COS & POS = 2.8

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

Levels : 1 = L1- Remembering 2 = L2- Understanding & L3- Applying

3 = L4-Analyzing, L5-Evaluating & L6-

Creating

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#### III YEAR - BSC- V SEMESTER - COURCE- C6 - PRACTICAL

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	1	2	3	3	3	3
CO2	3	3	3	3	1	2	3	3	3	3
CO3	3	3	3	3		3	3	3	3	3
Ave rage	3	3	3	3	1	2.3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.61

## STANGFREE BUNNER

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## III YEAR - BSC - V SEMESTER - COURCE- C7 - PRACTICAL

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		3	3	3	3	3
CO2	3	3	3	3	1	2	3	3	3	3
CO3	3	3	3	3	1	2	3	3	3	3
Ave rage	3	3	3	3	1	2.3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.6



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## III YEAR – BSC– PRACTICALS

			MAPPIN	G (COs & I	POs)			MAPPING (COs & PSOs)		
Course Code	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities , Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life- Long Learning	PSO1	PSO2	PSO3
C1	3	3	3	3		2	3	3	3	3
C2	3	3	3	3		3	3	3	3	3
С3	3	3	3	3	1	2.6	3	3	3	3
C4	3	3	3	3	2.5	3	3	3	3	3
C5	3	3	3	2			3	3	3	2
C6	3	3	3	3	1	2.3	3	3	3	3
C7	3	3	3	3	1	2.3	3	3	3	3
AVERAGE	3	3	3	2.8	1.3	2.5	3	3	3	2.8



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## DEPARTMENT OF BIOTECHNOLOGY

## MICROBIOLOGY-THEORY

S.No	Semester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	Explain the evolution of the microbiology field and the scientific discoveries relating to each field.	PO1,PO2,PO3, PO4,PO6,PO7	PSO1, PSO2,PO3
1	I	MCB1SK	Introduction to microbiology and microbial	CO2	Summerize the techniques used to stain and observe the microorganisms under microscope	PO1,PO2,PO3, PO4,PO6	PSO1, PSO2,PO3
			Diversity	CO3	Discuss the History , milestones of Microbiology	PO1,PO3,PO4' PO6,PO7	PSO1,PSO3
				CO4	Demonstarte different isolation ,preservation techniques	PO2,PO3,PO4, PO6,PO7	PSO1,



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							PSO2,PO3
				CO5	Analyse the Ultrastructure of Prokaroyotic cell	PO1,PO2PO3, PO5PO2	PSO2 PSO3
				CO1	Evaluate the roles of different biomolecules in a microbial cell	PO1,PO2,PO3	PSO1, PSO2
2	II	MCB2SK	Microbial physiology and	CO2	Analysis the Biomolecule separation techniques: chromatography, gel electrophoresis, spectrophotometry	PO2, PO3, PO6	PSO2 PSO3
			Biochemisty	CO3	Illustrate, differentiate and contrast between the structures of DNA and also discuss the DNA replication process	PO1,PO2,PO3,	PSO1, PSO2
				CO4	Explain the different metabolic pathways used by the microorganisms	PO1, PO2	PSO1, PSO2
				CO5	Describe the properties ,structure,function of enzymes	PO1,PO3	PSO1, PSO3
3	III	MCB3SK	Medical Microbiology and immunology	CO1	Differentiate between different types pathogenic organisms, and explain in details pathogenicity, diagnosis of pathogenic organisms	PO1,PO2,PO3, PO4,PO5,PO6	PSO1, PSO2
				CO2	Interpret the possible suggested preventive and treatment methods	PO1,PO2,PO3, PO4,PO5,PO6, PO7	PSO1, PSO2



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				CO3	Explain various chemotherapeutic agents and	PO1,PO2,PO3,	PSO1,
					their mode of actions and general account of	PO4,PO5'PO6,	PSO2
					various communicable diseases and their	PO7	
					preventive methods		
				CO4	Illustrate the basic concepts of different types of	PO1,PO2,PO3,	PSO1,
					immunity and different cells and organs involved	PO4,PO5,PO7	PSO2
					in combating pathogens		
				CO5	Demonstrate the different types of antigen-	PO1,PO2,PO3,	PSO1,
					antibody interactions and their application in	PO4,PO5'PO6,	PSO2,
					diagnosing different infections	PO7	PSO3
				CO1	summarize the importance of industrially used	PO1,PO2,	PSO1,
					microbes and screening techniques used,	PO4,PO6,	PSO3
					various methods stain improvement for	PO7	
4	IV	MCB4SKA	Industrial	CO2	microbial products  Demonstrate the various types of fermentation	PO1,PO2,	PSO1,
			Microbiology	CO2	process design of fermentor	PO3'PO4,PO6,	PSO2,
			Wherobiology		process design of fermentor	PO7	PSO3
				CO2	Apply the industrial micro organisms involved in	PO2,PO4,PO6,	PSO3,
				CO3	various industries	PO2,PO4,PO6,	PSO3, PSO2
				CO 4			
				CO4	Analyze the given pharmaceutical products for its	PO1,PO3,PO5,	PSO3,
					sterility, Microbiological determine the potency	PO6,PO7	PSO2
				005	of the products like antibiotics and vitamins	DO1 DO2DO2	
				CO5	Explain the importance of sterilization in	PO1,PO2PO3,	DGG 1
					Fermentation process and deferent sterilization	PO6,PO7	PSO1,
					methods`		PSO2,PO3



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				CO1	Design experiments to perform DNA & RNA as	PO1,PO4,PO6,	PSO1,
					Genetic material	PO7	PSO2,PO3
				CO2	Summarize the chemical reactions leading to	PO1,PO3,PO4	PSO1,PSO2
					DNA damage	PO5,PO7	, PSO3
			Molecular	CO3	Determine the modes of genetic recombination in	PO1,PO2,PO4,	PSO1,PSO2
5	IV	MCB4SKB	Biology &		bacteria		, PSO3
3	1 4	IVICE-ISKE	Microbial				,1503
			Genetics	CO4	Explain the Structure, regulation of Lacoperon	PO1, PO4,	PSO2,PSO3
					with gene expression in bacteria		1502,1505
				CO5	Discuss the concept of Molecular biology types	PO1,PO3,PO2,	PSO1,PSO2
					of RNA & protein synthesis in prokaryotes &	PO4	, PSO3
					Eukaryotes		
				CO1	Explain the parameters that induce spoilage and	PO1,PO4,PO6,	PSO1,
					process of intoxication in food borne diseases	PO7	PSO2,PSO3
				CO2	Analysis the Methods of food preservation	PO1,PO2,PO3,	PSO1,PSO2
			Food agricultural &			PO7	, PSO3
6	V	MCB5SKA	environmental	CO3	Develop knowledge on Role of microorganisms	PO1,PO2,PO4,	PSO1,PSO2
			microbiology		in production of fermented foods and probiotics	PO6,PO7	, PSO3
				CO4	Apply Skills in isolation of <i>Rhizobium</i> & other	PO4PO5,PO6,	PSO2,
					microflora from rhizosphere & rhizoplane	701704704	PSO3
				CO5	Outlines of Role of microorganisms in	PO1,PO3,PO2,	PSO2,
					degradation of solid/liquid wastes	PO5,PO7	PSO3
7	V	MCB5SKB	Management of	CO1	Illustrate the data obtained from biochemical	PO1,PO2,PO3,	PSO1,PSO2
			human microbial		analyses of samples such as whole blood, serum,	PO4,PO6,	, PSO3
					urine etc. with clinical symptoms and possible		



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			disease and		pathologies		
			diagnsosis	CO2	Apply the Methods & transport of clinical	PO1,PO4,PO6,	PSO1,PSO2
					samples to Laboratory, storage		, PSO3
				CO3	Analyse the infected blood samples by using	PO1,PO2,PO3	PSO1,PSO2
					Gram Staining procedures	PO4,PO5,PO7	, PSO3
				CO4	Demonstrate different types of antigen-antibody	PO1,PO2,PO3,	PSO1,PSO2
					interactions and their application in diagnosing	PO4, PO6,PO7	, PSO3
					different infections		,1303
				CO5	Determine the Drug Resistance in Bacteria	PO6	PSO1,PSO2
							, PSO3
				CO1	Explore career alternative prior to graduation.	PO2, PO6	PSO3
				CO2	Develop work habits and attitudes necessary for	PO3,PO4, PO6	PSO2,
8	VIII	Project		CO2	job success.		PSO3
				CO3	Assess interests and abilities in their field of	PO2, PO6	PSO3
				003	study.		1303

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## I YEAR – MBC – I SEMESTER – PAPER – I - THEORY

				MAPPING(COs & PSOs)						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowled ge	Creative and critical thinking and problem solving abilities	Communi cation Skills and Team Work	Digital Capabilities	Social Responsibilit ies, Ethical and Environment al Competency	Employabi lity and Research related Skills	Life-Long Learning			
CO1	3	2	3	3	-	2	3	3	1	2
CO2	3	3	3	3	-	2	-	3	3	2
CO3	3	-	1	1	-	1	1	3	-	3
CO4	-	3	1	3	-	3	3	3	3	2
CO5	2	2	3	-	2	3	-		2	2
Average	2.75	2.5	2.75	2.5	2	2.25	2.33	3	2.5	2.75

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.75

## TANDELER THUMAN

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## I YEAR – MBC – II SEMESTER – PAPER – II– THEORY

		al Domain Creative and Communication Digital Social Employ Life-											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3			
	Essential Domain Knowledge	critical thinking and problem	Skills and	_	Responsibiliti es, Ethical and Environmenta	ability and Resear ch related	Long Learn						
CO1	-	3	2	-	-	3	-	2	3	-			
CO2	3	3	1	3	-	-	-		3	2			
CO3	3	2	2	-	-	-	2	3	2	3			
CO4	3	2	3	-	-		2	3	2	-			
CO5	3	-	1	-	-	-	-	3	-	2			
Average	3	2.5	2.25	3	-	3	2.51	2.75	2.5	2.33			

OVER ALL AVERAGE BETWEEN COS & POS = 2.71 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.52

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## II YEAR – MBC – III SEMESTER – PAPER-III – THEORY

				MAPPINO	G(COs & PSOs)					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowledge	Creative and critical thinking and problem solving abilities	Communication Skills and Team Work	Digital Capabilities	Social Responsibilities , Ethical and Environmental Competency	Employab ility and Research related Skills	Life- Long Learni ng			
CO1	3	3	1	3	-	3	-	2	3	-
CO2	3	2	3	2	-	3	3	3	3	-
CO3	3	3	3	3	2	3	3	3	3	-
CO4	3	3	2	1	2	-	2	3	2	-
CO5	2	2	2	3	3	3	2	2	3	3
Average	3	2.6	2.75	2.75	2.3	3	2.5	2.6	2.8	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.65 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.8

# TANDESCE THE MALE

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## II YEAR – MBC – IV SEMESTER – PAPER- IV- THEORY

				MAPI	PING(COs & PSC	Os)				
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem	PO3  Communi cation Skills and Team	PO4  Digital  Capabilitie  s	PO5 Social Responsibiliti es, Ethical and Environmenta	PO6  Employabil ity and Research related	PO7 Life- Long Learnin g	PSO 1	PSO2	PSO3
	ge	solving abilities	Work		1 Competency	Skills	5			
CO1	3	3	-	2	-	3	-	2	-	2
CO2	2	2	-	2	3	3	-	2	3	3
CO3	3	3	-	3	-	3	-	-	3	3
CO4	2	3	3	-	2	3	2	-	3	3
CO5	3	2	2	-	-	3	2	3	2	2
Average	2.6	2.6	2.5	2.33	2.5	3	2	2.33	2.75	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.50 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.44

# TANDESCE THE MALE

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## II YEAR – MBC – IV SEMESTER – PAPER- V- THEORY

				MAPP	PING(COs & PSo	Os)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowled ge	Creative and critical thinking and problem solving abilities	Communi cation Skills and Team Work	Digital Capabilitie s	Social Responsibiliti es, Ethical and Environment al Competency	Employabi lity and Research related Skills	Life- Long Learnin g		1502	1503
CO1	3	2	-	3	-	3	3	3	3	1
CO2	3	-	2	-	2	-	2	2	2	3
CO3	3	3	-	2	-	3	2	-	3	2
CO4	3	-	-	2	-	-	-	-	2	3
CO5	3	3	2	-	-	-	2	2	1	2
Average	3	3	2	2.33	2	3	2.25	2.5	2.75	2.75

OVER ALL AVERAGE BETWEEN COS & POS = 2.51

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.33

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## III YEAR – MBC– V SEMESTER – PAPER- VI– THEORY

				MAPPING(Cos	s & PSOs)					
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibil ities, Ethical and Environme ntal Competenc	PO6 Employ ability and Researc h related Skills	PO7 Life- Long Lear ning	PSO1	PSO2	PSO3
CO1	3	_	_	2	<b>y</b> 2	3	2	3	3	1
		-			2	3				
CO2	2	-	3	2	-	-	3	2	3	2
CO3	3	3	-	2	2	3	3	2	2	3
CO4	-	2	-	3	3	3	-	-	3	3
CO5	3	2	3	-	3	2	2	3	2	2
Average	2.75	2.33	3	2.25	2.5	2.75	2.5	2.5	2.6	2.75

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

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## III YEAR – MBC – V SEMESTER – PAPER- VII- THEORY

		MAPPING(Cos & PSOs)											
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities , Ethical and Environmental Competency	PO6 Employa bility and Research related Skills	PO7 Life-Long Learning	PS O1	PSO2	PSO3			
CO1	3	3	2	3	-	3	2	2	3	3			
CO2	3	2	2	3	2	3	2	2	3	3			
CO3	2	3	2	3	1	-	2	2	3	3			
CO4	3	3	3	3	2	3	2	2	3	3			
CO5	-	2	2	3	-	3	2	2	3	2			
Average	2.75	2.6	2.75	3	1.66	3	2	2	3	2.8			

OVER ALL AVERAGE BETWEEN COS & POS = 2.53 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.61

# THE PRICE IN LINE

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## III YEAR – MBC – VI SEMESTER – PAPER- VIII- PROJECT

	MAPPING(Cos & PSOs)													
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6 Employabi lity and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3				
CO1	-	3	-	-	-	3	-	-	3	3				
CO2	-	-	3	3	-	3	-	-	3	3				
CO3	-	3	-	-	-	3	-	-	3	3				
Average	-	3	3	3	-	3	-	-	3	3				

OVER ALL AVERAGE BETWEEN COS & POS = 3
OVER ALL AVERAGE BETWEEN COS & PSOS = 3

## TANDELEE THE HOUSE

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## III YEAR – MBC – MICROBIOLOGY- THEORY

			MAPPING (Cos & PSOs)							
Cos	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Commun ication Skills and Team Work	PO4 Digital Capabiliti es	PO5 Social Responsibilit ies, Ethical and Environment al Competency	PO6 Employa bility and Research related Skills	PO7 Life- Long Learni ng	PSO 1	PSO 2	PSO 3
MCB1SK	2.75	2.5	2.75	2.5	2	2.25	2.33	3	2.5	2.75
MCB2SK	3	2.5	2.25	3	-	3	2.51	2.75	2.5	2.33
MCB3SK	3	2.6	2.75	2.75	2.3	3	2.5	2.6	2.8	3
MCB4SKA	2.6	2.6	2.5	2.33	2.5	3	2	2.33	2.75	2.6
MCB4SKB	3	3	2	2.33	2	3	2.25	2.5	2.75	2.75
MCB5SKA	2.75	2.33	3	2.25	2.5	2.75	2.5	2.5	2.6	2.75
MCB5SKB	2.75	2.6	2.75	3	1.66	3	2	2	3	2.8
PROJECT	-	3	3	3	-	3	-	-	3	3
Average	2.83	2.64	2.62	2.64	2.16	2.87	2.29	2.52	2.73	2.74

OVER ALL AVERAGE BETWEEN COS & POS = 2.57 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66



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#### MICROBIOLOGY-PRACTICAL

S.No	Semester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	Demonstrate the basic instruments & their operation	PO1,PO4,PO6 PO7	PSO1,PSO2,PSO3
			Lutur da ati a u ta	CO2	Examine the process of staining techniques	PO1,PO2,PO3 PO4,PO6,PO7	PSO1,PSO2,PSO3
1	I	MCB1SK	Introduction to microbiology and	CO3 Preparation of different types of culture me	Preparation of different types of culture media.	PO1,PO2,PO4, PO6,PO7	PSO1,PSO2,PSO3
		microbial Dive		CO4	, 01	PO1,PO2,PO3, PO4,PO6,PO7	PSO1,PSO2,PSO3
				CO5	Examine the Gram positive and Gram negative Bacteria.	PO1,PO2,PO3, PO4,PO6,PO7	PSO1,PSO2,PSO3
				CO1	Qualitative Analysis of Carbohydrates & aminoacids	PO1,PO2,PO3, PO6,PO7	PSO1,PSO2,PSO3
2	11	MCDACK	Microbial	CO2	Estimation of DNA & RNA by diphenyl & oricinol method	PO1,PO2,PO3, PO6,PO7	PSO1,PSO2,PSO3
2	II MCB2		physiology and Biochemisty	CO3	Estimation of reducing sugar- anthrone method	PO1,PO2,PO3, PO6,PO7	PSO1,PSO2,PSO3
				CO4	Detrermination of Pk & Pi activity of aminoacids	PO1,PO2,PO4, PO6,PO7	PSO1,PSO2,PSO3
				CO5	Demonstration of immobilization of enzyme	PO1,PO2,PO4,	PSO1,PSO2,PSO3



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					activity	PO6,PO7	
				CO1	Identification of human blood groups	PO1,PO2,PO3,	PSO1,PSO2,PSO3
		MCB3SK	Medical			PO4,PO6,PO7	
		WCB35K	Microbiology and	CO2	Estimation of blood hemoglobin	PO1,PO2,PO3,	PSO1,PSO2,PSO3
			immunology			PO4,PO6,PO7	
			mmunology	CO3	Demonstration on separation on serum from	PO1,PO2,PO4,	PSO1,PSO2,PSO3
3	III				blood sample	PO6,PO7	
				CO4	Isolation and identify the bacterial floral by	PO1,PO2,PO3,	PSO1,PSO2,PSO3
					skin swab method	PO6,PO7	
				G0.5		DO1 DO2 DO1	DGC1 DGC2 DGC2
				CO5	Analyze the antibiotic resistance	PO1,PO2,PO4	PSO1,PSO2,PSO3
				GO1		PO6,PO7	DGG1 DGG2 DGG2
				CO1	Formulate the Production of ethanol	PO1,PO2,PO4,	PSO1, PSO2,PSO3
						PO6,PO7	
				CO2	Isolation of amylase producing	PO1,PO2,PO4	PSO1, PSO2,PSO3
					microorganisms from soil	PO5,PO6,PO7	
4	IV	MCB4SKA	Industrial	CO3	Estimation of ethanol	PO2,PO4,PO6,	PSO1, PSO2,PSO3
	1 V	P	Microbiology			PO7	
				CO4	Demonstration of Fermentor	PO1,PO2,PO3,	PSO1, PSO2,PSO3
						PO4,PO6 ,PO7	
				CO5	Analyze the growth curve of industrially	,PO2,PO3,PO5,	PSO1, PSO2,PSO3
					microorganisms	PO6,PO7	
5	IV	MCB4SKB	Molecular Biology	CO1	Demonstrate the different types of DNA &	PO1,PO2,PO4,	DCO1 DCO2
3	1 V	WICD43KB	& Microbial		RNA	PO6,PO7	PSO1, PSO2



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			Genetics	CO2	Isolation & Identify the genomic DNA from	PO1,PO2,PO3,	PSO1,PSO2, PSO3
					E.coli	PO4,PO6,PO7	F3O1,F3O2, F3O3
				CO3	Estimation of DNA using UV	PO1,PO2,PO3,	PSO1,PSO2, PSO3
					spectrophotometer	PO4,PO6,PO7,	1301,1302,1303
				CO4	Detect the Mutations in bacteria by UV light	PO2,PO3,PO4,	PSO1,PSO2, PSO3
						PO6,PO7,	1501,1502,1503
				CO5	Analyse the proteins by Gel Electrophoresis	PO2,PO3,PO4,	PSO1,PSO2, PSO3
						PO6,PO7,,	1501,1502,1503
				CO1	Isolate & identify of bacteria and fungi from	PO1,PO2,PO3,	PSO1,PSO2, PSO3
					spoiled fruits & vegetables	PO6,PO7	1501,1502,1503
				CO2	Determination of microbiological quality of	PO1,PO2,PO3,	PSO1,PSO2, PSO3
6	V	MCB5SKA	Food agricultural &		milk sample by MBRT	PO4,PO7	1501,1502,1503
	•	P	environmental	CO3	Identification of Rhizosphere microflora from	PO1,PO2,PO4,	PSO1,PSO2, PSO3
			microbiology		the soil	PO5,PO6,PO7	1501,1502,1503
				CO4	Analysis of potable water	PO1,PO2,PO4,	
					presumptive,confirmed,completed test by	PO5,PO6,PO7,	PSO1,PSO2, PSO3
					MPN method		
				CO5		PO1,PO2,PO4,	
					Study of airflora by petriplate exposure	PO5,PO6,PO7	PSO1,PSO2, PSO3
					method		
			Management of	CO1	Examine the clinical samples of	PO1,PO2,PO3,	PSO1,PSO2, PSO3
		MCB5SKB	human microbial		Urine,puss,sputum	PO4,PO6,PO7	1231,1232,1233
7	P disease and	CO2	Demonsration of permanent slides of different parasitis	PO1,PO2,PO4, PO6,PO7,	PSO1,PSO2, PSO3		
			diagnsosis	CO3	Estimation of Haemoglobin	PO1,PO2,PO3,	PSO1,PSO2, PSO3



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				PO5, PO6,PO7	
		CO4	Determination of ESR & PCV	PO1,PO2,PO4,	DCO1 DCO2 DCO2
				PO6,PO7	PSO1,PSO2, PSO3
		CO5	Isolate & Identify the bacteria in pure culture	PO1,PO2,PO3,	PSO1,PSO2, PSO3
				PO6,PO7	

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## I YEAR – MBC – I SEMESTER – PAPER – I - PRACTICAL

			MAPPI	ING(COs &	POs)			MAPPING(COs & PSOs)			
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilitie s, Ethical and Environmenta l Competency	PO6  Employabil ity and Research related Skills	PO7 Life- Long Learning	PSO1	PSO2	PSO3	
CO1	3	-	-	3	-	3	3	3	3	3	
CO2	3	3	2	1	-	3	2	3	2	2	
CO3	3	2	-	2	-	3	2	3	2	3	
CO4	2	3	2	2	2	3	3	3	2	2	
CO5	2	3	2	2	-	3	3	3	2	2	
Average	2.6	2.75	2	2	2	3	2.6	3	2.2	2.3	

OVER ALL AVERAGE BETWEEN COS & POS = 2.42

# STANGENER THUMEN

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## I YEAR – MBC – II SEMESTER – PAPER – II– PRACTICAL

				MAI	PPING(COs & P	PSOs)		T		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO2	PSO3
	Essentia l Domain Knowle dge	Creative and critical thinking and problem solving abilities	Communi cation Skills and Team Work	Digital Capabilitie s	Social Responsibiliti es, Ethical and Environment al Competency	Employabi lity and Research related Skills	Life- Long Learnin g			
CO1	2	3	2	-	-	3	3	2	3	3
CO2	3	3	2	-	-	3	3	3	3	2
CO3	3	2	2	-	-	3	3	3	2	3
CO4	3	3	-	2	-	2	2	3	2	2
CO5	3	3	-	3	-	3	2	3	2	2
Average	3	2.4	2	2.5	-	3	2.6	3	2.4	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.58 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6



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## II YEAR - MBC - III SEMESTER - PAPER-III - PRACTICAL

				MAPP	ING(COs & PS	Os)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO	PSO2	PSO3
	Essentia l Domain Knowle dge	Creative and critical thinking and problem solving	Communi cation Skills and Team Work	Digital Capabilitie s	Social Responsibiliti es, Ethical and Environment al	Employab ility and Research related Skills	Life- Long Learnin g	1	1302	1303
		abilities			Competency					
CO1	3	3	2	1	2	3	3	2	3	3
CO2	2	3	2	1	2	3	2	2	3	3
CO3	3	3	2	-	2	3	2	3	3	2
CO4	2	3	2	2	3	3	3	3	3	3
CO5	2	3	2	2	-	3	2	2	3	3
Average	2.4	3	2	1.5	2.25	3	2.4	2.4	3	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.36



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## II YEAR – MBC – IV SEMESTER – PAPER- IV- PRACTICAL

				MAPI	PING(COs & PSO	Os)				
	PO1  Essential  Domain  Knowled  ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communi cation Skills and Team Work	PO4  Digital  Capabilitie  s	PO5  Social Responsibiliti es, Ethical and Environmenta l Competency	PO6  Employabil ity and Research related Skills	PO7 Life- Long Learnin g	PSO 1	PSO2	PSO3
CO1	3	3	2	2	-	3	3	3	3	2
CO2	2	3	-	2	3	3	3	3	3	3
CO3	-	3	2	3	-	3	3	2	3	2
CO4	3	3	2	-	2	3	2	3	3	2
CO5	2	3	2	2	-	3	2	2	3	3
Average	2.5	3	2	2.25	2.5	3	2.6	2.6	3	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.55



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## II YEAR – MBC – IV SEMESTER – PAPER- V- PRACTICAL

				MAPPIN	G(COs & PSOs)					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowledge	Creative and critical thinking and problem solving abilities	Communi cation Skills and Team Work	Digital Capabilitie s	Social Responsibiliti es, Ethical and Environment al Competency	Employabi lity and Research related Skills	Life- Long Learnin g			
CO1	3	2	-	2	-	3	2	3	3	2
CO2	2	3	-	2	3	3	3	3	3	3
CO3	2	3	2	-	-	3	2	3	3	2
CO4	-	3	1	2	-	2	3	3	3	3
CO5	-	2	2	-	-	3	3	2	3	2
Average	2.33	2.6	1.66	2	3	3	2.6	2.8	3	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.45 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.73

# STANDONER BUNDER

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## III YEAR – MBC– V SEMESTER – PAPER- VI– PRACTICAL

				MAPP	PING(COs & PSO	Os)				
	PO1 Essential Domain Knowledg e	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilitie s	PO5 Social Responsibiliti es, Ethical and Environment al Competency	PO6 Employabi lity and Research related Skills	PO7 Life- Long Learnin g	PSO1	PSO2	PSO3
CO1	3	3	1	-	-	3	3	3	3	2
CO2	2	3	2	2	-	3	3	2	3	3
CO3	3	3	2	2	3	3	3	3	3	3
CO4	2	2	-	3	2	3	3	2	3	3
CO5	2	2	-	3	2	3	3	3	3	3
Average	2.4	2.6	1.66	2.25	2.33	3	3	2.6	3	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.46 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.8

# STANGENER THUMEN

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## III YEAR – MBC – V SEMESTER – PAPER- VII- PRACTICAL

				MAPPI	NG(COs & PSOs	s)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilitie s	PO5 Social Responsibiliti es, Ethical and Environmenta l Competency	PO6 Employabi lity and Research related Skills	PO7 Life- Long Learnin g	PSO1	PSO2	PSO3
CO1	3	3	2	3	-	3	3	3	3	3
CO2	3	3	2	3	-	3	3	2	-	3
CO3	2	3	1	2	-	3	3	2	3	3
CO4	3	3	-	1	-	3	2	2	3	3
CO5	3	3	2	-	-	3	3	3	3	3
Average	2.8	3	1.75	2.25	-	3	2.8	2.4	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.6 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.8

# ENRICH EN

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## III YEAR – MBC – MICROBIOLOGY- PRACTICAL

			MAPI	PING (Cos & P	os)			MAPPING (Cos & PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
	<b>Essential</b>	Creative	Commun	Digital	Social	Employab	Life-				
Cos	Domain	and critical	ication	Capabilities	Responsibilit	ility and	Long	<b>PSO</b>	<b>PSO</b>	PSO	
Cos	Knowledge	thinking	Skills		ies, Ethical	Research	Lear	1	2	3	
		and	and		and	related	ning				
		problem	Team		Environmen	Skills					
		solving	Work		tal						
		abilities			Competency						
MCB1SKP	2.75	2.5	2.75	2.5	2	2.25	2.33	3	2.5	2.75	
MCB2SKP	3	2.4	2	2.5	-	3	2.6	3	2.4	2.4	
MCB3SKP	2.4	3	2	1.5	2.25	3	2.4	2.4	3	2.8	
MCB4SKAP	2.5	3	2	2.25	2.5	3	2.6	2.6	3	2.4	
MCB4SKBP	2.33	2.6	1.66	2	3	3	2.6	2.8	3	2.4	
MCB5SKAP	2.4	2.6	1.66	2.25	2.33	3	3	2.6	3	2.8	
MCB5SKBP	2.8	3	1.75	2.25	-	3	2.8	2.4	3	3	
Average	2.59	2.72	1.97	2.17	2.41	2.89	2.61	2.68	2.84	2.65	

OVER ALL AVERAGE BETWEEN COS & POS = 2.48 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.72



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#### **DEPARTMENT OF BIOTECHNOLOGY**

#### **BIOTECHNOLOGY-THEORY**

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)													
				CO1	Explain the basics structure, properties and functions of bio	PO1, PO2, PO4,	PSO1, PSO2,													
				COI	molecules.	PO6, PO7	PSO3													
				CO2	Identify the properties of bio molecules using bio analytical	PO1, PO2, PO3,	PSO1, PSO2,													
			Bio	CO2	techniques.	PO5, PO6, PO7	PSO3													
			Y1SK and analytical techniques	and analytical	and analytical	and analytical	and analytical	and analytical	and analytical				Demonstrate the working principals, and applications of different	PO1, PO2, PO3,	PSO1, PSO2,					
1	I	BTY1SK										and	and	and	CO3	separation technique especially chromatographic, electrophoretic and	PO4, PO5, PO7	PSO3		
											centrifugation techniques.									
				CO4	Apply various analytical technique and using them in research area.	PO1, PO 3,	PSO1, PSO2,													
						-	·						_				201			PO4, PO5, PO6
				CO5	Analyse the applications and limitations of different bio statistical	PO2, PO3, PO4,	PSO1, PSO2,													
				CO3	methods	PO5, PO6, PO7	PSO3													
			Microbiolo	CO1	Discuss the concepts of microbiology, cell and molecular biology	PO1, PO4, PO5	PSO1, PSO2,													
2	2 II BTY2SK	2SK gy Cell & G	CO1		PO6	PSO3														
			CO2	Distinguish between different types of microbes, classification and	PO2, PO3, PO5,	PSO1, PSO2,														
			their characterizations		PO7	PSO3														



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				СОЗ	Explain structure and function of prokaryotic and eukaryotic cell organelles, cell Division.	PO1, PO2, PO3 PO4, PO5, PO6 PO7	PSO1, PSO2, PSO3						
				CO4	Summarize the basics of molecular biology including DNA replication, transcription, translation and regulation of gene expression	PO1, PO2, PO3 PO4, PO6, PO7	PSO1, PSO2, PSO3						
				CO5	Analyse the functional aspects of the cell at molecular level.	PO1, PO2, PO3 PO4, PO5, PO6 PO7	PSO1, PSO2, PSO3						
				CO1	Explain the concepts of immunology and recombinant DNA technology	PO1, PO2, PO4, PO5, PO6, PO7	PSO1, PSO2, PSO3						
		Immunol	T	Immunolog	<b>T</b> 1			Immunolog	Immunolog	CO2	Outline the basics of immunology dealing cells and organs of the immune system, types of immune responses, antigen antibodyinteractions	PO2, PO3, PO4, PO5, PO6, PO7	PSO1, PSO2, PSO3
3	III BTY3SK	Immunolog y&rDNA	CO3	Apply the steps involved in recombinant DNA technology.	PO1, PO2, PO3 PO4, PO6	PSO1, PSO2, PSO3							
		DIIJSK	technology	CO4	Determine the isolation of plasmids, cloning of gene and transformation into Suitable bacteria for selection of recombinant clones	PO1, PO3, PO5 PO7	PSO1, PSO2, PSO3						
				CO5	Demonstrate knowledge of various biological databases and computational tools.	PO1, PO2, PO4, PO5, PO6, PO7	PSO1, PSO2, PSO3						
										CO1	Demonstrate the basic knowledge about plant tissue culture and animal tissue culture.	PO1, PO2, PO4, PO6	PSO1, PSO2, PSO3
	IV BTY4SK A	Plant& Animal	CO2	Describe the safety issues of GM crops and products in the society.	PO2, PO3, PO4, PO5,PO7	PSO1, PSO2, PSO3							
4		Biotechnolo	СОЗ	Explain Animal cell culture and different type of cell culture and application of cell Culture.	PO1, PO2, PO4, PO5, PO6, PO7	PSO1, PSO2, PSO3							
			CO4	Assume artificial embryo transfer and nuclear transfer methods and applications.	PO1, PO2, PO3 PO4, PO6	PSO1, PSO2, PSO3							



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				CO5	Influence the intellectual property rights, biosafety of genetically engineered products.	PO1, PO3, PO5, PO6, PO7	PSO1, PSO2, PSO3																	
				CO1	Explain about environmental pollution- sources, effects and control Measures of environmental pollution	PO1, PO2, PO3 PO4, PO6, PO7	PSO1, PSO2, PSO3																	
			Environmen	CO2	Demonstrate the treatment of wastewater and solid waste management	PO1, PO2, PO3 PO4, PO5, PO6 PO7	PSO1, PSO2, PSO3																	
5	5 IV BTY4SK B	tal& Industrial biotechnolo	4SK Industrial	CO3	Find the basic concept and issues of environmental pollution biotechnological treatment to clean up polluted environments and to create valuable resources for the human society.	PO1, PO2, PO3 PO4, PO5, PO6 PO7	PSO1, PSO2, PSO3																	
				87	87	<i>8</i> 7	5)	83	CO4	Illustrate knowledge about applications of Vermicomposting	PO1, PO3, PO4, PO5	PSO1, PSO2, PSO3												
							CO5	Summarize The use of bio fertilizer and to train the students for self- Employment.	PO2, PO5, PO6, PO7	PSO1, PSO2, PSO3														
			Apiculture	CO1	Discuss the basic concepts of Apiculture	PO1, PO2, PO4, PO5, PO6, PO7	PSO1, PSO2, PSO3																	
				Apiculture	Apiculture	CO2	Classify the different species and races of honey bees.	PO1, PO3, PO4, PO5, PO6, PO7	PSO1, PSO2, PSO3															
6	V	BTY5SKE				Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	CO3	Find the importance of health and hygiene in Bee keeping	PO1, PO2, PO3 PO4, PO5, PO6 PO7	PSO1, PSO2, PSO3						
			CO5	Determine prospects of Api culture as self-employment venture.	PO1, PO2, PO3 PO6	PSO1, PSO2, PSO3																		
	7 V BTY5SKF	Doorl	CO1	Explain the basic concepts of Pearl culture	PO1, PO3, PO4, PO5	PSO1, PSO2, PSO3																		
7		BTY5SKF	KF Pearl culture	CO2	Apply the knowledge regarding the Anatomical and Physiological aspects of fresh water oysters.	PO1, PO2, PO3 PO4, PO5, PO6 PO7	PSO1, PSO2, PSO3																	



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			CO3	Develop the various types of implantation methods and pearl culture	PO1, PO2, PO5,	PSO1, PSO2,
				surgery techniques	PO6, PO7	PSO3
			CO4	Assume skill on production of pearl and its marketing for economic	PO1, PO2, PO3	PSO1, PSO2,
			CO4	gain	PO4, PO6, PO7	PSO3
			CO5	Choose self-employment, prospects, of pearl industry.	PO2, PO3, PO4,	PSO1, PSO2,
			003		PO5, PO6, PO7	PSO3
			CO1	Explore career alternative prior to graduation	PO2, PO3, PO4,	PSO1, PSO2,
				Explore cureer diteritative prior to graduation	PO5, PO6	PSO3
8	VIII	PROJECT	CO2	Develop work habits and attitudes necessary for job success	PO1, PO2, PO5,	PSO1, PSO2,
	V 111	TROJECT	CO2	Develop work habits and attitudes necessary for job success	PO7	PSO3
			CO3	Assess interests and abilities in their field of study	PO1, PO3, PO4,	PSO1, PSO2,
				735655 interests and dometes in their field of study	PO6, PO7	PSO3



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## **BIOTECHNOLOGY - PRACTICALS**

							Program
Sl.	Semes	Course	Course Title		Course Outcomes(Cos)	Program	Specific
No	ter	Code	Course Thie		Course Outcomes(Cos)	Outcomes (POs)	Outcomes
							(PSOs)
				CO1	Acquire knowledge in qualitative/quantitative estimation of	, , , , , ,	PSO1,
				CO1	Biomolecules	PO6	PSO2, PSO3
				GOA	Assay of protease activity	PO1, PO2, PO3	PSO1,
			Die melecules	CO2		PO4, PO5, PO6 PO7	PSO2, PSO3
1	т	BTY1S	Bio molecules	CO3	Separation of molecules by chromatography/ electrophoresis	PO1, PO3, PO4,	PSO1,
1	1	KP	and analytical techniques-Lab	COS		PO5, PO6, PO7	PSO2, PSO3
				CO4	Estimation of nucleic acids DNA, RNA	PO2, PO3, PO4,	PSO1,
				CO4		PO5, PO6, PO7	PSO2, PSO3
						Find values of mean, median mode	PO1, PO2, PO3
				CO5		PO4, PO5, PO6	PSO2, PSO3
						PO7	
				CO1	Identify the bacteria from soil	PO1, PO2, PO4,	PSO1,
						PO6, PO7	PSO2, PSO3
			Microbiology	~~~	Examine the process of staining techniques	PO1, PO2, PO3	PSO1,
		BTY2S	Cell &	CO2		PO4, PO5, PO6 PO7	PSO2, PSO3
24	II	KP	Molecular				DGO1
	KP	131	biology -Lab	CO3	Demonstrate the basic instruments and their operations	PO1, PO2, PO3 PO4, PO5, PO6	PSO1, PSO2, PSO3
			blology Lub	CO3		PO7	1302,1303
				004	Identify the phases mitotic/meiotic cell divisions	PO1, PO2, PO3	PSO1,
				CO4	1	PO4, PO5, PO6	PSO2, PSO3



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						PO7							
				CO5	Isolation of DNA from bacteria	PO1, PO3, PO5,	PSO1,						
				CO3			PSO2, PSO3						
				CO1	Determination of Blood groups	PO1, PO3, PO4,	PSO1,						
				COI		PO7	PSO2, PSO3						
					Perform the different serological tests	PO1, PO2, PO3	PSO1,						
			Immunology&	CO2		PO4, PO5, PO6	PSO2, PSO3						
						PO7							
3	III	BTY3S	rDNA	CO3	Isolation of plasmid DNA	PO2, PO3, PO4,	PSO1,						
		KP	technology -			PO5, PO6, PO7	PSO2, PSO3						
			Lab		Determination of process of Blotting	PO1, PO2, PO3	PSO1,						
				CO4		PO4, PO5, PO6	PSO2, PSO3						
								PO7					
				CO5	Determination of process of PCR	PO1, PO2,	PSO1,						
				003		PO5, PO6	PSO2, PSO3						
				CO1	Formulate the plant tissue culture media	PO1, PO3, PO4	PSO1,						
								PO5, PO7	PSO2, PSO3				
													CO2
			D1 . 0 . 4 . 1	CO2		PO4, PO6	PSO2, PSO3						
1	13.7	BTY4S	Plant& Animal	CO3	Demonstration of Animal tissue culture	PO1, PO2, PO4	PSO1,						
4	IV	KAP	Biotechnology			PO6, PO7	PSO2, PSO3						
			-Lab	CO4	Find out cell count by hemocytometer	PO1,PO2, PO3,	PSO1,						
						PO4, PO5	PSO2, PSO3						
				CO5	Measure ELISA	PO2, PO3, PO5	PSO1,						
				003		PO6, PO7	PSO2, PSO3						
			Environmental	CO1	Determine the purity of potable water	PO1, PO3, PO5,	PSO1,						
5	5 BTY	BTY4S	& Industrial	COI		PO7	PSO2, PSO3						
	IV	KBP	biotechnology	CO2	Measure the hardness & alkalinity of water sample	PO1, PO2, PO4,	PSO1,						
			-Lab	CO2		PO5, PO6	PSO2, PSO3						



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				CO3	Identify microorganisms from soil	PO1, PO2, PO3	PSO1,																						
				CO3		PO6, PO7	PSO2, PSO3																						
				CO4	Formulate the production of alcohol	PO2, PO4, PO5,	PSO1,																						
						PO6	PSO2, PSO3																						
				CO5	Estimate of citric acid	PO1, PO2, PO3	PSO1,																						
						PO4, PO6, PO7	PSO2, PSO3																						
				CO1	Demonstrate the maintain the Bees hives	PO1, PO2, PO4,	PSO1,																						
				COI		PO5, PO6	PSO2, PSO3																						
				CO2	Perform the maintain bee boxes	PO1, PO2, PO3	PSO1,																						
				CO2		PO4, PO5, PO7	PSO2, PSO3																						
	**	BTY5S		CO2	Find the tools required in Bee keeping	PO1, PO2, PO3	PSO1,																						
6	V	KEP	Apiculture-Lab	Apiculture-Lab	Apiculture-Lab	Apiculture-Lab	CO3		PO6	PSO2, PSO3																			
						GO 4	Determine the methodology of extraction honey	PO2, PO3, PO4,	PSO1,																				
													CO4		PO5, PO7	PSO2, PSO3													
				G0.5	Prepare the extraction of honey & Bee wax	PO1, PO3, PO4,	PSO1,																						
				CO5		PO5, PO6, PO7	PSO2, PSO3																						
				GO1	Execute pearl culture activities	PO1, PO5, PO6	PSO1,																						
			_	-				-	Doord oulture		-						(			CO1		PO7	PSO2, PSO3						
																					-		<u>                                     </u>	-	-	~~	Explain the techniques of surgical operations	PO1, PO2, PO4,	PSO1,
																							CO2		PO5	PSO2, PSO3			
		DTMC																			Designed pearl culture techniques	PO1, PO3, PO4,	PSO1,						
7	V	BTY5S		CO3		PO6, PO7	PSO2, PSO3																						
		KFP	lab		Develop of pearls & marketing of pearls	PO2, PO3, PO5,	PSO1,																						
				CO4	S r	_ , , ,	PSO2, PSO3																						
				Perform pearl harvesting	PO1, PO2, PO3	PSO1,																							
				CO5	2 - 2-2-2	PO4, PO5, PO6	PSO2, PSO3																						
						PO7	1502,1503																						



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## I YEAR - BBC - I SEMESTER - COURSE - I - THEORY

Bio			MAF	PPING (COs	& POs)			MAPPING (COs & PSOs)			
molecul es and analytica l techniqu es	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problemsolving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	3		3		2	2	3	3	3	
CO2	3	3	3		3	3	1	2	3	3	
CO3	3	3	3	2	2		3	3	2	3	
CO4	2		2	1	1	3		2	3	2	
CO5		3	3	3	3	3	2	1	3	3	
Average	2.75	3	2.75	2.25	2.25	2.75	2	2.2	2.8	2.8	

OVER ALL AVERAGE BETWEEN COS & POS = 2.53OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6



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## I YEAR – BBC – II SEMESTER – COURSE – II– THEORY

Microbi		MAPPING (COs & PSOs)											
ology Cell & Molecul ar biology	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problemsolving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3			
CO1	3			3	2	3		3	3	3			
CO2		3	3		3		2	2	3	2			
CO3	3	3	3	3	3	3	3	3	3	3			
CO4	1	3	2	1		3	1	3	1	2			
CO5	3	3	3	2	3	2	2	3	3	3			
Average	2.5	3	2.75	2.25	2.75	2.75	2	2.8	2.6	2.6			

OVER ALL AVERAGE BETWEEN COS & POS = 2.57



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## II YEAR – BBC – III SEMESTER –COURSE-III – THEORY

				MAPP	ING (COs & PS	Os)				
Immunolo gy&rDN A technolog y	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problemsolving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3		3	3	2	1	3	3	3
CO2		3	2	2	2	3	2	2	3	3
CO3	2	3	3	3		3		3	2	3
CO4	3		3		3		2	3	3	1
CO5	3	3		3	2	3	3	3	3	2
Average	2.75	3	2	2.75	2.5	2.75	2	2.8	2.8	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.53



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## II YEAR – BBC – IVSEMESTER –COURSE- IV- THEORY

				MAPP	ING (COs & PS	Os)				
Plant& Animal Biotechnol ogy	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3		3		2		3	3	3
CO2		2	3	2	3		2	3	2	3
CO3	3	1		3	2	3	3	3	2	3
CO4	2	3	2	3		2		2	3	3
CO5	3		3		3	3	3	3	3	1
Average	2.75	2.25	2	2.75	2	2.5	2	2.8	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.32



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#### II YEAR - BBC - IV SEMESTER -COURSE- V- THEORY

				MAPP	ING (COs & PS	(Os)				
Environ mental& Industria l biotechn ology	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	2	3	Competency	3	1	3	3	3
CO2	2	3	3	3	2	3	2	3	3	3
CO3	3	3		3	3	2	3	3	2	3
CO4	3		3	3	3			2	3	3
CO5		3	3		3	3	2	3	3	2
Average	2.75	3	2.5	3	2.75	2.75	2	2.8	2.8	2.8

OVER ALL AVERAGE BETWEEN COS & POS =2.67



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## III YEAR – BBC– VSEMESTER –COURSE - VI– THEORY

				MAPP	ING (COs & PS	Os)				
Apicultu re	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3		3	3	3	2	3	2	3
CO2	3		3	2	3	3	3	2	3	2
CO3		1	2	3	3	2	1	3	2	3
CO4	2	3	3	3	3		3	2	3	3
CO5	3	3	3			3		3	3	3
Average	2.75	2.5	2.75	2.75	3	2.75	2.25	2.6	2.6	2.8

OVER ALL AVERAGE BETWEEN COS & POS =2.67 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66



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#### III YEAR - BBC - VSEMESTER -COURSE- VII- THEORY

				MAPP	ING (COs & PS	Os)				
Pearl culture	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3		3	3	3			3	3	3
CO2	2	3	2	1	2	3	3	2	3	3
CO3	3	3			3	3	2	3	1	3
CO4	3	2	3	2		2	1	3	2	3
CO5		3	2	3	2	3	3	3	3	2
Average	2.75	2.75	2.5	2.25	2.5	2.75	2.25	2.8	2.4	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.53



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## III YEAR – BBC – VISEMESTER –PAPER- VIII- PROJECT

				MAPP	ING (COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1		3	2	3	2	3		3	3	3
CO2	3	3			3		2	3	3	3
CO3	2		3	2		3	3	3	3	3
Average	2.5	3	2.5	2.5	2.5	3	2.5	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.64OVER ALL AVERAGE BETWEEN COS & PSOS = 3

## STANDOUGH BUMBE

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#### III YEAR - BBC - BIOTECHNOLOGY- THEORY

			MAI	PPING (COs	& POs)				APPIN Os & PS	
COs	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
BTY1SK	2.75	3	2.75	2.25	2.25	2.75	2	2.2	2.8	2.8
BTY2SK	2.5	3	2.75	2.25	2.75	2.75	2	2.8	2.6	2.6
BTY3SK	2.75	3	2	2.75	2.5	2.75	2	2.8	2.8	2.4
BTY4SKA	2.75	2.25	2	2.75	2	2.5	2	2.8	2.6	2.6
BTY4SKB	2.75	3	2.5	3	2.75	2.75	2	2.8	2.8	2.8
BTY5SKE	2.75	2.5	2.75	2.75	3	2.75	2.25	2.6	2.6	2.8
BTY5SKF	2.75	2.75	2.5	2.25	2.5	2.75	2.25	2.8	2.4	2.6
PROJECT	2.5	3	2	2.5	2.5	3	2.5	3	3	3
Average	2.68	2.81	2.40	2.56	2.53	2.75	2.12	2.72	2.7	2.7

OVER ALL AVERAGE BETWEEN COS & POS =2.55



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#### I YEAR - BBC - I SEMESTER - PAPER - I - PRACTICALS

			MAP	PING(COS &	& POs)			MAPP	ING (COs	& PSOs)
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3
CO1	3	3			3	2	3	3	2	2
CO2	3	3	2	1	1	2	2	2	3	2
CO3	3		2	3	2	3	3	3	3	2
CO4		3	3	2	3	3	2	3	3	3
CO5	2	2	2	3		3		3	3	3
Average	2.75	2.75	2.25	2.25	2.25	2.6	2.5	2.8	2.8	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.47OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66



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#### I YEAR - BBC - II SEMESTER - PAPER - II -- PRACTICALS

			MAP	PING(COS &	& POs)			MAPP	ING (COs	& PSOs)
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3
CO1	3	3		3		2	3	3	3	3
CO2	3	3	3	2	3	3	2	3	3	3
CO3		2	2	1	1	1	1	3	3	3
CO4	3	3	3	2	3	3	2	3	3	3
CO5	2		2		2			2	2	3
Average	2.75	2.75	2.5	2	2.25	2.25	2	2.8	2.8	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.35



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#### II YEAR - BBC - III SEMESTER -PAPER- III - PRACTICALS

			MAP	PING(COS &	& POs)			MAPP	ING (COs	& PSOs)
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3
CO1	3		3	3			3	3	3	3
CO2	3	3	2	3	3	3	1	3	3	3
CO3		3	3	1	2	3	2	3	2	2
CO4	3	2	2	2	2	3	1	3	3	3
CO5	3	3			1	3		3	3	3
Average	3	2.75	2.5	2.25	2	3	1.75	3	2.8	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.46



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## II YEAR - BBC - IVSEMESTER -PAPER- IV- PRACTICALS

			MAP	PING(COS &	& POs)			MAPP	ING (COs	& PSOs)
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3
CO1	3		3	2	2		2	3	3	3
CO2	2	3	2	3		3		3	2	3
CO3	2	3		2		2	3	2	3	3
CO4	3	3	3	3	2			3	2	2
CO5		2	3		3	3	3	2	3	3
Average	2.5	2.75	2.75	2.5	1.75	2	2	2.6	2.6	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.32



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## II YEAR - BBC - IVSEMESTER -PAPER- V- PRACTICALS

			MAP	PING(COS &	& POs)			MAPP	ING (COs	& PSOs)
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3
CO1	3		3		3		3	3	2	3
CO2	2	3		3	3	3		3	3	3
CO3		1	3		2	2	2	2	3	2
CO4	3	3		3		3		3	2	3
CO5	3	2	2	2		3	2	3	3	3
Average	2.75	2.25	2	2	2	2.75	1.75	2.8	2.6	2.8

OVER ALL AVERAGE BETWEEN COS & POS =2.21



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## III YEAR - BBC- VSEMESTER -PAPER- VI - PRACTICALS

			MAP	PING(COS &	& POs)			MAPPING (COs & PSOs)			
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3	
CO1	3	2		2	2	3		3	3	3	
CO2	3	3	3	2	1		3	2	2	3	
CO3	3	2	3		3	3		3	3	3	
CO4		3	2	1	3		2	3	2	3	
CO5	2		3	3		3	3	3	3	3	
Average	2.25	2.5	2.75	2	2.25	3	2	2.8	2.6	3	

OVER ALL AVERAGE BETWEEN COS & POS = 2.39



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#### III YEAR – BBC – VSEMESTER –PAPER–VII- PRACTICALS

			MAP	PING(COS &	& POs)			MAPPING (COs & PSOs)				
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem-solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employa bility and Research related Skills	PO7 Life-long Learning	PSO1	PSO2	PSO3		
CO1	3				2	3	3	3	3	3		
CO2	3	3		2	3			3	3	3		
CO3	2		3	3		2	3	3	3	3		
CO4		3	3		3			2	2	2		
CO5	3	3	3	3	2	3	3	3	3	3		
Average	2.75	3	3	2	2.5	2	3	2.8	2.8	2.8		

OVER ALL AVERAGE BETWEEN COS & POS =2.60



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## III YEAR – BBC – BIOTECHNOLOGY-PRACTICALS

			MAF	PPING (COs	& POs)			MAPPING (COs & PSOs)			
COs	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem- solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
BTY1SKP	2.75	2.75	2.25	2.25	2.25	2.6	2.5	2.8	2.8	2.4	
BTY2SKP	2.75	2.75	2.5	2	2.25	2.25	2	2.8	2.8	3	
BTY3SKP	3	2.75	2.5	2.25	2	3	1.75	3	2.8	2.8	
BTY4SKAP	2.5	2.75	2.75	2.5	1.75	2	2	2.6	2.6	2.8	
BTY4SKBP	2.75	2.25	2	2	2	2.75	1.75	2.8	2.6	2.8	
BTY5SKEP	2.25	2.5	2.75	2	2.25	3	2	2.8	2.6	3	
BTY5SKFP	2.75	3	3	2	2.5	2	3	2.8	2.8	2.8	
Average	2.67	2.67	2.53	2.14	2.14	2.51	2.14	2.8	2.71	2.8	

OVER ALL AVERAGE BETWEEN COS & POS = 2.55



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#### **DEPARTMENT OF BOTANY**

S. No	Sem	Course	Course		Course Outcomes(Cos)	Program	Program Specific
3. 10	ester	Code	Title		Course Outcomes(Cos)	Outcomes (POs)	Outcomes (PSOs)
				CO1	Explain origin of life on the earth	PO1,PO2,PO7	PSO1,PSO2
			Funda	CO2	Illustrate diversity among the viruses and prokaryotic organisms and categorize them.	PO1,PO2,PO3PO 4,PO7	PSO2,PSO3
			mentals of	CO3	Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles.	PO1,PO2,PO5	PSO2.
1	I	BOT 1 SK	microb es & Non	CO4	Analyze and ascertain the plant disease symptoms due to viruses ,bacteria and fungi	PO2,PO3,PO6	PSO1,PSO2
			vascula r plants	CO5	Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat.	PO1,PO2,PO4.	PSO1,PSO3
				CO6	Evaluate the ecological and economic value of microbes,thallophytes and bryophytes.	PO2,PO5,PO6,PO 7	PSO1,PSO3
			Basics of	CO1	Classify and compare Pteridophytes and Gymnosperms based on their morphology,reproduction and life cycles	PO1,PO2,PO3,PO 7	PSO1,PSO2
2	II	BOT 2 SK	vascula r plants	CO2	Justify evolutionary trends in tracheophytes to adapt for land habitat	PO1,PO5,PO6	PSO2,PSO3
			Phyto	CO3	Explain the process of fossilization and compare the characteristics of the extinct and extant plants.	PO1,PO2	PSO1,PSO3



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			geograp hy	CO4	Critically understand various taxonomical aids for identification of Angiosperms	PO1,PO2,PO4	PSO1,PSO2
				CO5	CO5- Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families.	PO1,PO3	PSO1,PSO2
				CO6	Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare.	PO2'PO3,PO4PO 5,PO6,PO7	PSO2,PSO3
				CO7	CO7- Locate different phyto geographical regions of the world and India and can analyze their floristic wealth.	PO1,PO2,PO6,	PSO2,PSO3
3	III	BOT 3 SK	Anatom	CO1	Understand on the organization of tissues and tissue systems in plants	PO1,PO2,PO5,PO 7	PSO1,PSO2
			y Embryo	CO2	Illustrate and interpret various aspects of embryology	PO2,PO4,PO5,PO 6	PSO2,PSO3
	logy of Angios C		CO3	Discuss the basic concept of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities	PO1,PO3,PO5,	PSO2	
			perms plant ecology	CO4	appraise various qualitative and quantative parameters to study the population and community ecology	PO3,PO4,PO5,PO 6,PO7	PSO2
			& biodive	CO5	Correlate the importance of Biodiversity and consequences due to its loss	PO1,PO2,PO4,PO 5,PO6,PO7	PSO2,PSO3
			rsity	CO6	Enlist the endemic /endangered flora and fauna from two biodiversity hotspots in India and assess strategies for their conservation	PO1,PO2,PO3,PO 4,PO5,PO6,PO7	PSO1,PSO2
		BOT 4 SKA	Plant physiol	CO1	Comprise the importance of water in plant life and mechanism for transport of water and solutes in plants	PO1,PO2,PO3,PO 4,PO5,PO6	PSO1,PSO2,PSO3
4	IV		ogy & Metabo	CO2	Evaluate the role of minerals in plant nutrition and their deficiency symptoms	PO1,PO2,PO4,	PSO2'PSO3
			lism	CO3	Interpret the role of enzymes in plant metabolism	PO2,PO6	PSO2
				CO4	Critically understand the light reaction and carbon assimilation	PO1,PO2,PO4,PO	PSO1,PSO2



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					processes responsible for synthesis of food in plant	5,PO6,PO7	
			-	CO5	Analyze the biochemical reactions in relation to Nitrogen and lipid metabolism	PO1,PO4	PSO1,PSO2,PSO3
			-	CO6	Evaluate the physiological factors that regulate growth and development in plants	PO1,PO2,PO3,PO 6	PSO1,PSO2
			-	CO7	Examine the role of light on flowering and explain physiology of plants under stress condition	PO1,PO2,PO4,PO 5,PO6,PO7	PSO2,PSO3
		BOT 4 SKB	Cell biology	CO1	Distinguish prokaryotic and eukaryotic cells and design the model of a cell.	PO1,PO2,PO3,PO 4,PO5,PO6	PSO1,PSO2
			, Genetic s&Plant	CO2	Explain the organization of a eukaryotic chromosome and the structure of genetic material .	PO2,PO3	PSO2,PSO3
			breedin g	CO3	Demonstrate techniques to observe the cell and its components under microscope.	PO1,PO2,PO3,PO 4,PO5,PO6,PO7	PSO1,PSO2
				CO4	Discuss the basics of -genetics, its variations and interpret inheritance of traits in living beings	PO1,PO2,PO3,PO 4,,PO7	PSO3,PSO1,PSO2
5	IVB			CO5	Elucidate the role of extra- chromosomal genetic material for inheritance of characters	PO1,PO2,PO3,PO 4,PO7	PSO2,PSO3
				CO6	Evaluate the structure, function and regulation of genetic material	PO1,PO2,PO3,PO 4,PO5,PO6	PSO1,PSO2
				CO7	Understand the application of principles and modern techniques in plant breeding.	PO1,PO2	PSO1,PSO3
				CO8	Explain the procedures of selection and hybridization for improvement of crops L2	PO1,PO2,PO3,PO 4,PO5,PO7	PSO2
6	VA		Plant	CO1	comprise the basic knowledge and applications of plant tissue	PO1,PO2,PO3	PSO1,PSO2,PSO3



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		DOT C	Tissue		culture.		
		BOT 5 SKE	culture	CO2	Identify various facilities required to set up a plant tissue culture laboratory	PO1,PO2,PO3,PO 4,PO6	PSO2'PSO3
				CO3	Acquire a critical knowledge on sterilization techniques related to plant Tissue culture	PO2,PO4,PO5,PO 6'PO7	PSO1,PSO2
				CO4	Demonstrate skills of callus culture through hands on experiment.	PO2,PO4,PO7	PSO2,PSO3
				CO5	Understand the biotransformation technique for production of secondary metabolites.	PO1,PO2PO3PO5 ,PO6,PO7	PSO1,PSO2,PSO3
				CO1	Understand the structure and life of a mushroom and discriminate edible and poisonous mushrooms.	PO1,PO2,PO3,PO 5	PSO1,PSO2,PSO3
	Mushro		CO2	Identify the basic infrastructure to establish a mushroom culture unit.	PO1,PO2,PO3,PO 4,PO6	PSO2,PSO3	
7	VB	BOT 5 SKF	om Cultivat	CO3	Demonstrate skills preparation of compost and spawn.	PO2,PO4,PO5,PO 6,PO7	PSO1,PSO2
			ion	CO4	Acquire a critical knowledge on cultivation of some edible mushrooms	PO2,PO4,PO7	PSO2,PSO3
				CO5	Explain the methods of storage, preparation of value-added products and marketing.	PO1,PO2,PO3,PO 5,PO6,PO7	PSO2,PSO2,PSO3
8	CT		CO1	Explore career alternative prior to graduation	PO2,PO6	PSO3	
				CO2	Develop work habits and attitudes necessary for job success	PO2,PO6	PSO2,PSO3
	CO3	Assess interests and abilities in their field of study	PO3,PO4,PO6	PSO3			

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#### I YEAR - BBC - I SEMESTER - PAPER - I - THEORY

			MAPPING	(COs & POs	s)			MAPI	PING(COs	& PSOs)
	PO1 Essential Domain Knowledg e	PO2 Creative and critical thinking and problem solving abilities	PO3  Communica tion Skills and Team Work	PO4  Digital Capabilit ies	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6 Employ ability and Researc h related Skills	PO7 Life- Long Lear ning	PSO1	PSO2	PSO3
CO1	2	3	_	3	1	_	_	1	3	_
CO2	3	3	2	2	_	_	2	_	3	2
CO3	2	3	_	_	3	3	_	_	3	_
CO4	3	3	2	_	_	2	_	3	1	_
CO5	2	3	_	3	_	_	_	_	3	3
CO6	_	2	_	_	3	3	2	2		2
Ave rage	2.6	2.8	2.0	2.5	2.3	2.6	2	3	2.6	2.3

OVER ALL AVERAGE BETWEEN COS & POS = 2.4

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

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#### I YEAR - BBC - II SEMESTER - PAPER - II- THEORY

		MAPPING(COs & PSOs)											
	PO1  Essential  Domain  Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communicatio n Skills and Team Work	PO4  Digital Capabilities	PO5 Social Responsibilities , Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3			
CO1	3	1	3	_	-	_	3	1	3	_			
CO2	3	-	_	_	2	3	_	_	1	2			
CO3	3	3	_	_	_	_	_	2	2	-			
CO4	3	3	_	3	_	_	_	3	1	_			
CO5	3	_	3	_	_	_	1	2	1	3			
CO6	_	1	2	2	3	2	3	2	3	-			
CO7	2	3	_	_	_	3	_	_	3	2			
Ave rage	2.8	2.2	2.6	2.5	2.5	2.6	2.3	2.0	2.0	2.3			

OVER ALL AVERAGE BETWEEN COS & POS = 2.5 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.1

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#### II YEAR – BBC – III SEMESTER– PAPER-III – THEORY

				MAP	PING(COs & PSO	os)				
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5 Social Responsibilities , Ethical and Environmental Competency	PO6 Employabili ty and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	2	_	_	2	_	1	2	3	-
CO2	_	2	-	1	1	3	_	_	3	3
CO3	2	_	3	_	3	_	_		3	_
CO4	_	_	3	2	_	3	3	3	1	_
CO5	3	3	_	3	3	2	2	_	3	2
CO6	3	2	1	2	_	3	2	2	3	_
Ave rage	2.5	2.2	2.3	2.0	2.6	2.7	2.0	2.3	2.6	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.3



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#### II YEAR - BBC - IV SEMESTER- PAPER- IV- THEORY

				MAPPINO	G(COs & PSOs)	T				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowledge	Creative and critical thinking and problem solving abilities	Communicati on Skills and Team Work	Digital Capabilities	Social Responsibilities, Ethical and Environmental Competency	Employabil ity and Research related Skills	Life- Long Learn ing	1501	1502	1503
CO1	3	3	1	1	1	1	_	2	3	-
CO2	2	3	3	2	_	_	_	-	3	2
CO3	-	3	_	-	_	3	_	-	3	_
CO4	1	3	_	2	3	3	3	3	1	_
Co5	2	_	_	3	_	_	_	1	3	2
CO6	3	2	2	П	_	3	_	2	3	-
Co7	2	3	_	2	3	3	3	-	3	2
Average	2.1	2.8	2.00	2.0	2.3	2.6	2.0	2.0	2.7	2.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.2

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#### II YEAR - BBC - IV SEMESTER - PAPER- V- THEORY

				MAPPING(	(COs & PSOs)					
	PO1  Essential  Domain  Knowled  ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communication Skills and Team Work	PO4  Digital  Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life- Long Learnin g	PSO1	PSO2	PSO3
CO1	2	3	1	1	1	1	3	2	3	_
CO2	3	3	2	3	1	1	1		3	2
CO3	2	2	3	2	3	_	3	_	3	_
CO4	1	2	3	1	_	3	_	3	1	_
Co5	3	2	2	2	_	_	3	_	3	2
CO6	1	3	2	3	2	3	_	2	3	_
Co7	3	3	2	3	_	_	_	_	3	2
Co8	2	1	1	1	3	_	3	_	3	_
Average	2.1	2.3	2.0	2.0	2.0	2.0	2.6	2.3	2.6	2.0

OVER ALL AVERAGE BETWEEN COS & POS =2.14

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### III YEAR - BBC- V SEMESTER - PAPER- VI- THEORY

		MAPPING(COs & PSOs)											
	PO1 Essentia I Domain Knowle dge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities , Ethical and Environmental Competency	PO6 Employabili ty and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3			
CO1	3	3	3	1	1	3	1	1	3	_			
CO2	1	3	3	2	3	3	2	_	3	2			
CO3	3	3	1	2	3	3	3	_	3	_			
CO4	2	3	3	3	3	3	_	3	1	_			
CO5	3	3	1	3	2	3	3	_	3	2			
Ave rage	2.4	3.0	2.2	2.2	2.4	3.0	2.2	2.0	2.6	2.0			

OVER ALL AVERAGE BETWEEN COS & POS =2.4

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### III YEAR - BBC - V SEMESTER- PAPER- VII- THEORY

				MAPPI	NG(COs & PSOs)					
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 <b>Digital Capabilities</b>	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life- Long Learnin g	PSO1	PSO2	PSO3
CO1	2	2	2	-	1	_	_	3	1	1
CO2	3	2	2	1	_	3	_	_	3	2
CO3	-	2	_	3	3	3	3	3	2	_
CO4	-	3	_	2	_	_	3	_	2	1
CO5	2	2	3	-	3	2	2	1	2	3
Ave rage	2.3	2.2	2.3	2.0	2.3	2.6	2.6	2.3	2.0	2.3

OVER ALL AVERAGE BETWEEN COS & POS = 2.3 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.2

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### III YEAR - BBC - VI SEMESTER- PAPER- VIII- PROJECT

					MAPPING(0	COs & PSOs)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Commun ication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities , Ethical and Environmental Competency	PO6 Employabil ity and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	3	_	_	_	2	_	2	-	3
CO2	3	3	_		2	2	2	_	3	2
CO3	3	_	2	3	_	1	_	3	-	2
Ave rage	2.6	2.0	2.0	3.0	2.0	2.3	2.0	2.0	3.0	2.3

OVER ALL AVERAGE BETWEEN COS & POS = 2.2 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.4

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### III YEAR - BBC - BOTANY- THEORY

			MAP	PING (COs	& POs)			MAPPING (COs & PSOs)		
COs	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Comm unicati on Skills and Team Work	PO4 Digital Capabiliti es	PO5 Social Responsib ilities, Ethical and Environm ental Competen	PO6 Employabil ity and Research related Skills	PO7 Life- Long Learning	PSO1	PSO2	PSO3
PAPER -I	2.6	2.8	2.0	2.5	2.3	2.6	2.0	3.0	2.6	2.3
PAPER -II	2.8	2.2	2.6	2.5	2.5	2.6	2.3	2.0	2.0	2.3
PAPER -III	2.5	2.2	2.3	2.0	2.6	2.7	2.0	2.3	2.6	2.5
PAPER -IV	2.1	2.8	2.0	2.0	2.3	2.6	2.0	2.0	2.7	2.0
PAPER -V	2.1	2.3	2.0	2.0	2.0	2.0	2.6	2.3	2.6	2.0
PAPER -VI	2.4	3.0	2.2	2.2	2.4	3.0	2.2	2.0	2.6	2.0
PAPER -VII	2.3	2.2	2.3	2.0	2.3	2.6	2.6	2.3	2.0	2.3
PAPER -VIII	2.6	2.0	2.0	3.0	2.0	2.3	2.0	2.0	3.0	2.3
Average	2.4	2.4	2.1	2.2	2.3	2.5	2.2	2.2	2.5	2.2

OVER ALL AVERAGE BETWEEN COS & POS = 2.3 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.3



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### **BOTANY-PRACTICAL**

S. No	Semester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
1	I	BOT 1	Fundament als of microbes &	CO1	1.Demonstrate the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears  2.Observe and identify microbes and lower groups of plants on their own.	PO1,PO2,PO3,PO4,P O7 PO1,PO2	PSO1,PSO2 PSO2
	_	SK	Non vascular plants	CO3	3.Demonstrate the techniques of inoculation, preparation of media etc.  4.Identify the material in the permanent slides etc.	PO1,PO2,PO4 PO2,PO6,PO1	PSO3 PSO2,PSO1
				CO4	1.Demonstrate the techniques of Section cutting, preparing slides, identifying of the material and drawing exact figures	PO1,PO2,PO4,PO6	PSO2,PSO1,P SO3
2	п	BOT 2 SK	Basics of vascular plants Phyto	CO2	2.Compare and contrast the morphological. and reproductive features of vascular plants	PO1,PO2	PSO1,PSO2
			geography	CO3	3.Identify the local angiosperms of the families prescribed to their genus and species level and prepare herbarium	PO2,PO3,PO6,PO7	PSO1,PSO3
				CO4	4.Exhibit skills of preparing slides, the given twigs in the	PO1,PO2,PO4	PSO1,PSO2



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					lab and drawing figures of plant twigs,flowers and floral diagrams as they are		
				CO5	5.Prepare and preserve specimens of local wild plants using herbarium techniques	PO1,PO2,PO6,PO7	PSO2,PSO3
3	III	BOT 3 SK	Anatomy Embryolog	CO1	1.Get familiarized with techniques of Section making, staining and microscopic study of vegetative, anatomical and reproductive structures of plants	PO1,PO2,PO6	PSO1,PSO2
			y of Angiosper ms plant	CO2	2.Observe externally and under microscope,identify and draw exact diagrams of the material in the lab	PO1,PO2,PO6,PO7	PSO1,PSO2
			ecology & biodiversity	CO3	3.Demonstrate application of methods in plant ecology and conservation of biodiversity and communities of plants.	PO1,PO2,PO4	PSO2,PSO3
4	157	BOT 4 SKA	Plant physiology & Metabolism	CO1	1.Conduct lab and field experiments pertaining to plant physiology that is biophysical and biochemical processes using related glassware, equipment, chemical and plant material.	PO1,PO2,PO5,PO6	PSO1,PSO2,P SO3
4	IV			CO2	2. Estimate the quantities and qualitative expressions using experimental results and calculations.	PO1,PO2,PO6,PO7	PSO2
				CO3	3. Demonstrate the factors responsible for growth and development in plants.	PO1,PO2,PO3	PSO2,PSO3
		BOT 4 SKB	Cell biology, Genetics&P	CO1	1.Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division.	PO1,PO2,PO4	PSO1,PSO2
5	IVB		lant breeding	CO2	2.Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models.	PO1,PO2,PO6,PO7	PSO2,PSO1
	140			CO3	3. Solve the problems related to crosses and gene interactions	PO2,PO6,PO7	PSO1,PSO3
				CO4	4 Demonstrate plant breeding techniques such as emasculation and bagging.	PO2,PO3	PSO3,PSO2



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		BOT 5	Plant Tissue culture	CO1	1.List out, identify &handle various equipment in plant tissue culture	PO1,PO2,PO7	PSO1
		SKE	Cartare	CO2	2.Learn the procedures of preparation of media	PO6,PO1,PO2	PSO2
6	VA			CO3	3.Demonstrate skills on inoculation, establishing callus culture and micro propagation	PO1,PO2,PO3,PO6	PSO2,PSO3
				CO4	4.Acquire skills in observing and measuring callus growth	PO2,PO6,PO7	PSO2
				CO5	5. Perform some techniques related to plant transformation for secondary metabolite production	PO1,PO2,PO6	PSO2,PSO3
				CO1	1.Identify and discriminate different mushrooms based on morphology	PO1,PO2	PSO1
		POT 5	Mushroom	CO2	2.Understand facilities required for mushroom cultivation	PO1,PO2,PO6	PSO4,PSO2
7	VB	BOT 5 SKF  Mushroom Cultivation  CO3  Substitute and casing material  CO3  Substitute and casing material  CO3  CO3  CO3  CO3  CO3  CO3  CO3  CO		PO1,PO2,PO6,PO7	PSO2,PSO3		
			C	CO4	4. Exhibit various skills on various cultivation practices for an edible mushrooms.	PO2,PO6,PO7	PSO2,PSO3



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### I YEAR - BBC - I SEMESTER - PAPER - I - PRACTICAL

				MAPPING(COs & PSOs)						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowledg e	Creative and critical thinking and problem solving abilities	Communica tion Skills and Team Work	Digital Capabilities	Social Responsibi lities, Ethical and Environme ntal Competenc	Employab ility and Research related Skills	Life- Long Learni ng			
CO1	3	3	2	-	-	1	2	3	2	-
CO2	2	3	-	-	-	-	1	-	3	-
CO3	2	3	-	3	-	-	-	1	-	3
CO4	-	3	-	-	-	2	3	2	3	-
Ave rage	2.3	3.0	2.0	3.0	-	1.5	2.0	2.0	2.6	3.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.3

# STANGONIESE BUMBER

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### I YEAR - BBC - II SEMESTER - PAPER - II- PRACTICAL

		MAPPING(COs & PSOs)												
	PO1 Essentia	PO2 Creative	PO3 Communi	PO4 <b>Digital</b>	PO5 Social	PO6 Employabi	PO7	PSO 1	PSO2	PSO3				
	l Domain Knowle dge	and critical thinking and problem solving abilities	cation Skills and Team Work	Capabilitie s	Responsibiliti es, Ethical and Environment al Competency	lity and Research related Skills	Long Learnin g	1						
CO1	3	3	-	2	-	3	-	3	-	2				
CO2	3	2	3	-	-	3	-	3	2	-				
CO3	-	3	2	-	2	3	2	3	2	-				
CO4	3	2	-	3	-	-	-	3	1	-				
CO5	3	2	-	-	2	2	3	1	-	3				
Ave rage	3	2.4	2.5	2.5	2	2.7	2.5	2.6	1.6	2.5				

OVER ALL AVERAGE BETWEEN COS & POS = 2.51 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.2

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### I YEAR - BBC - III SEMESTER - PAPER - III- PRACTICAL

		MAPPING(COs & PSOs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO	PSO2	PS			
	Essentia l Domain Knowle dge	Creative and critical thinking and problem solving abilities	Commun ication Skills and Team Work	Digital Capabilitie s	Social Responsibiliti es, Ethical and Environment al Competency	Employabil ity and Research related Skills	Life- Long Learnin g	1		O3			
CO1	3	3	-	-	2	3	3	3	2	-			
CO2	3	2	-	3	-	3	2	-	2	3			
CO3	2	3	2	2	3	1	1	-	3	3			
Ave rage	2.6	2.6	2	2.5	2.5	2.3	2	3	2.3	3			

OVER ALL AVERAGE BETWEEN COS & POS = 2.35 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.76

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### I YEAR - BBC - IV SEMESTER - PAPER - IV- PRACTICAL

	MAPPING(COs & PSOs)											
	PO1	PO2	PO3	PO4	PO5	PO5 PO6 PO7		PSO1	PSO2	PSO3		
	Essential Domain Knowledge	Creativ e and critical thinkin g and proble m solving abilitie s	Commun ication Skills and Team Work	Digital Capabiliti es	Social Responsibili ties, Ethical and Environmen tal Competency	Employa bility and Research related Skills	Life-Long Learning		1502	1503		
CO1	3	2	-	-	3	2	1	3	2	2		
CO2	2	3	-	-	-	3	2	1	3	1		
CO3	2	2	3	-	-	-	-	-	3	2		
Ave rage	2.3	2.3	3	-	3	2.5	1.5	2	2.6	1.6		

OVER ALL AVERAGE BETWEEN COS & POS = 2.43 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.06

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#### III YEAR - BBC - IV SEMESTER - PAPER - V- PRACTICAL

		MAPPING(COs & PSOs)												
	PO1  Essential  Domain  Knowled  ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities , Ethical and Environmental Competency	PO6 Employabili ty and Research related Skills	PO7 Life- Long Learning	PSO1	PSO2	PSO3				
CO1	3	3	1	3	-	-	3	2	-	-				
CO2	2	3	-	-	-	2	3	3	1	-				
CO3	-	3	-	-	2	2	3	1	2	-				
CO4	-	2	3	-	-	-	-	1	3	3				
Ave rage	2.5	2.7	2	3	2	2	3	1.7	2	3				

OVER ALL AVERAGE BETWEEN COS & POS = 2.45 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.23

# STANGENERS IN LINE

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#### I YEAR - BBC - V SEMESTER - PAPER - VI- PRACTICAL

				MAPI	PING(COs & PSC	Os)				
	PO1 PO2		PO3	PO4	PO5	PO6	PO7 PSO1		PSO2	PSO3
	Essential Domain Knowled ge	Creative and critical thinking and problem solving abilities	Communi cation Skills and Team Work	Digital Capabilitie s	Social Responsibiliti es, Ethical and Environmenta I Competency	Employabil ity and Research related Skills	Life- Long Learnin g			
CO1	3	3	-	1	-	1	3	3	-	-
CO2	2	3	-	-	2	2	-	-	3	-
CO3	2	3	3	2	3	3	-	-	2	-
CO4	-	3	-	2	-	3	3	-	2	-
CO5	2	2	2		2	3	-	-	3	2
Ave rage	2.2	2.8	2.5	2.3	2.3	2.4	3.0	3	2.5	2.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.27 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.5

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### I YEAR - BBC - V SEMESTER - PAPER - VII- PRACTICAL

				MAPP	ING(COs & PS	Os)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO	PSO	PSO
	Essenti al Domai n Knowle dge	Creative and critical thinking and problem solving abilities	Commun ication Skills and Team Work	Digital Capabiliti es	Social Responsibili ties, Ethical and Environmen tal Competency	Employa bility and Research related Skills	Life- Long Learni ng	1	2	3
CO1	3	3	2	-	-	1	2	3	-	-
CO2	3	3	-	-	1	2	2	3	2	-
CO3	2	3	1	-	2	2	2	-	2	3
CO4 3	-	3	-	2	-	2	3	-	2	3
Ave rage	2.6	3	1.5	2	1.5	1.7	2.2	3	2	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.07 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

### TANDRIES HAME

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### III YEAR - BBC - BOTANY- PRACTICAL

			MAP	PING (COs	& POs)				IAPPIN Os & PS	
COs	PO1 Essenti al Domai n Knowle dge	PO2 Creative and critical thinking and problem solving	PO3 Commu nication Skills and Team Work	PO4 Digital Capabiliti es	PO5 Social Responsibilit ies, Ethical and Environment al	PO6 Employa bility and Research related Skills	PO7 Life- Long Learni ng	PSO 1	PSO 2	PSO 3
PAPER -I	2.3	abilities 3	2	3	Competency -	1.5	2	2	2.6	3
PAPER -II	3	2.4	2.5	2.5	2	2.7	2.5	2.6	1.6	2.5
PAPER - III	2.6	2.6	2	2.5	2.5	2.3	2	3	2.3	3
PAPER -IV	2.3	2.3	3	-	3	2.5	1.5	2	2.6	1.6
PAPER -V	2.5	2.7	2	3	2	2	3	1.7	2	3.0
PAPER -VI	2.2	2.8	2.5	1.5	1.5	2.4	3.0	3.0	2.5	2.0
PAPER - VII	2.6	3	1.5	2	1.5	1.7	2.2	3	2	3
Average	2.5	2.68	2.21	2.41	2.08	2.15	2.31	2.47	2.22	2.58

OVER ALL AVERAGE BETWEEN COS & POS = 2.33 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.42

# STANGENER MINER

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### **DEPARTMENT OF CHEMISTRY**

S. No	Semester	Course & paper Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	Explain the evolution of the various definitions, concepts related to p-block elements.	PO1	
				CO2	Summarize the insulators, conductors and semiconductors.		
1	I	CHE1S & 1312-	Inorganic and physical	CO3	Discuss about applications of distribution law for various ideal and true solutions.		PSO3
		1	chemistry	CO4	Demonstrate the experimental skils using common effect and solubility product principles in qualitative analysis.	PO4	
				CO5	Analyse the experimental methods for determining molar mass of non-volatile solute.		PSO2
2	II	CHE2SK	Organic and	CO1	Recapitulate the conformations of	PO1	



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		& 1312-	general		alkane and cycloalkanes		
		2K	chemistry	CO2	Analyze the electrophilic and nucleophilic addition mechanism of alkenes and alkynes	PO3	PSO2
				CO3	Illustrate aromaticity and huckells rule for benzenoid and non benzenoid substance	PO2	PSO1
				CO4	Discover projects on colloidal substance and use adsorption principles	PO3	
				CO5	Apply concepts of stereochemistry of carbon compounds	PO2	PSO2
				CO1	Identification af alcohols,phenols and their reactivity	PO2	PSO2
			Organic chemistry and	CO2	Apply the synthetic application of carbonyl compounds	PO2	PSO2
3	III	CHE3SK & 2312- 3K	Spectroscopy	CO3	Illustrate reactions involving H,OH And COH groups in carboxylic acids and their derivatives	PO2	PSO2
				CO4	Explain selection rules of vibrational and rotational spectroscopy for bond properties of organic compounds	PO3	PSO3
				CO5	Apply IR spectral analysis of different functional groups.	PO3	PSO2
				CO6	Create & carry out workup & separation procedures	PO3 & PO7	PSO7
4	IVA			CO1	Explain the preparation &reactions of	PO2 & PO6	PSO2, PSO3



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					organometallic compounds and job opportunities in petroleum industries		
				CO2	Classification of carbohydrates determination of structure of glucose and fructose	PO2 & PO3	PSO3
			Inorganic , organic and	CO3	Explain the synthesis of proteins and its employability in food corporation of india	PO2 & PO5	PSO6
		CHE4SK A & 2312- 41K	physical chemistry	CO4	Distinguish nitrohydrocarbons and undertake project work in pharmaceutical companies and industries	PO2 & PO7	PSO7
				CO5	Interpret concepts of thermodyanamics and photochemistry & explore job opportunities in public &private sectors of energy resources & oceanography (aquaculture)	PO2 & PO5	PSO6
				CO1	Recall theories of coordination compounds	PO1	PSO1
5	IVB			CO2	Identify bioinorganic compounds & apply in study of macromolecules like haemoglobin & chlorophyll	PO4	PSO4
5	148	CHE4SK B	Inorganic & physical	CO3	Apply the concept of phase rule & develop problem solving skills for different component systems & freezing mixtures	PO2	PSO2
			prijorear	CO4	Explain effects of dilutions &		



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		& 2312-	chemistry		conductances & relate applications of	PO2 & PO7	PSO2 &
		42K			electrochemical sciences		PSO7
					Critically understand the kinetics of		
					chemical reactions and impact of	DO2 DO2 0	DG 02 0
				CO5	environmental factors on concept of	PO2,PO3 & PO7	PSO3 & PSO7
					enzyme catalysis able for life long	ro/	1307
					learning in diagnostic laboratories		
				CO1	Distinguish types of pollution, its		
					causes & its preventive measures	PO1	PSO2
				CO2	Explore factors for photochemical		
			Environm	CO2	smog & ozone layer depletion	PO3	PSO3
			ental chemistry		Identify the hazards of water pollution		
		CHE5SK	,		& factors of COD & BOD & Enrich	PO2 & PO6	PSO6
		G		CO3	with knowledge for career		
6	V	&			opportunities in water treatment plants		
		3312- 57K					
		3/1			Analyze the occurance of Heavy	PO2 & PO3	PSO3
				CO4	metals & chemicals toxicology &		
					treatment in living organisms		
					Create An Awarness on Environment		
				CO5	in Different Ecosystems &	PO3	PSO3 &
					Sustanibility of Biodiversity		PSO7
					Explain & apply theoretical		
7	V			CO1	knowledge of green chemistry &	DO2	DG 0.2 0
/	· v			COI	interpret sonication method for green	PO2	PSO2 &
					synthesis of organic reactions		PSO5



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				CO2	Analyze supercritical CO2 & its applications, selection of solvents & create impact of green chemistry on environment & society	PO3	PSO3
		CHE5SK H & 3312- 58K	Green chemistry	CO3	Undertake project work on green synthesis assisted by microwave & ultrasound techniques & explore jobs related to green chemistry in public & private sectors	PO4	PSO4
				CO4	Explore the job opportunities by using green catalyse such as alumina, silica, enzymes etc	PO5	PSO5
				CO5	Vertical mobility of concepts of nanotechnologies in green chemistry & application of nanomaterials and integrate this life long experience in jobs	PO5	PSO7
8	X/I		D : .	CO1	Analyze & interpret and take appropriate decisions in solving real life problems using statistical tools		
	VI		Projects	CO2	Use different statistical packages for graphical interface, data analysis & interpretation		
				CO3	Write a systematic project report.		

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#### I YEAR – I SEMESTER – COURSE – I - THEORY

			MAPPIN	G(COs & POs	s)			MAPPI	NG(COs &	PSOs)
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communication Skills and Team Work	PO4 Digital Capabilitie s	PO5 Social Responsibiliti es, Ethical and Environmenta 1 Competency	PO6 Employability and Research related Skills	PO7 Life- Long Learni ng	PSO1	PSO2	PSO3
CO1	2	3		4	1	3		2	3	2
CO2	2	3		2			3	3	3	
CO3	2	3	2		3		2			2
CO4	3	2	1	1		3		2	3	
CO5		2	3	2	3		2		2	2
Ave rage	2.25	2.6	2.0	2.25	2.3	2.3	2.33	2.33	2.75	2.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.29

# ENRICH CANADA SERVICE STATE OF THE SERVICE SER

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#### I YEAR – I SEMESTER – PAPER – I PRACTICAL

				MAPPING(COs	& POs)			MAPP	ING(COs &	PSOs)
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	1	3	3	3	2	3	2	3	2
CO2	2	3	2	3	2	3	3	2	2	3
CO3	3	2	3	4	4	3	2	3	2	3
CO4	2	3	4	2	2	3	2	4	2	3
CO5	2	3	2	3	3	4	2	3	4	2
Ave rage	2.2	2.4	2.8	3	2.8	3	2.4	2.8	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.65 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66

# ENRICH CAMP OF THE STATE OF THE

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#### I YEAR -- II SEMESTER - COURSE - II- THEORY

			1	MAPPING(CC	Os & PSOs)					
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2	1	3	-	2	1	3	1
CO2	3	4	-	3	-	2	-	3	2	-
СОЗ	2	-	4	2	-	3	1	-	3	3
CO4	3	2	3	-	2	-	2	2	2	-
CO5	2	1	2	4	3	2	3	4	-	3
Ave rage	2.6	2.25	2.75	2.5	2.66	2.33	2.0	2.25	2.5	2.33

# STANGONIESE BUMBER

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#### I YEAR - MBBT, MPC- II SEMESTER - PAPER - II - PRACTICAL

			MAPPING(COs &	PSOs)						
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6  Employab ility and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	1	3	3	3	2	2	3	2
CO2	3	3	2	3	2	2	3	3	2	3
CO3	3	3	2	-	3	3	-	2	3	-
CO4	3	2	2	3	1	-	3	1	-	3
CO5	2	1	3	1	2	3	2	3	3	2
Ave rage	2.8	2.2	2.0	2.0	2.2	2.2	2.0	2.2	2.2	2.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.2 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.13

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#### II YEAR – BBC – III SEMESTER – COURSE -III – THEORY

				M	APPING(COs & PSC	Os)				
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Commun ication Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	-	3	2	-	1	-	2	1
CO2	2	-	3	2	-	3	-	2	-	3
CO3	3	1	-	3	-	2	3	-	3	1
CO4	2	-	3	-	2	-	2	3	2	-
CO5	1	3	1	-	3	1	3	2	-	3
Ave rage	2.2	2.0	2.33	2.66	2.33	2.0	2.25	2.33	2.33	2.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.25

# ENRICH CANADA WEST

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#### II YEAR – MBBT, MPC – III SEMESTER – PAPER-III – PRACTICAL

				MAPF	PING(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicatio n Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6  Employabi lity and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	-	3	3	3	-	3	3	2	3
CO2	2	3	2	1	3	2	2	3	3	2
CO3	-	2	3	-	-	3	-	3	-	3
CO4	2	3	-	3	2	3	3	-	3	-
CO5	3	3	3	3	3	3	2	3	2	3
Ave rage	2.0	2.2	2.2	2.0	2.2	2.2	2.0	2.4	2.0	2.2

OVER ALL AVERAGE BETWEEN COS & POS = 2.11

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#### II YEAR - IV SEMESTER - COURSE - IV- THEORY

					MAPPING(COs o	& PSOs)				
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilitie s	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	-	1	2	-	3	1	2	1
CO2	1	3	-	3	-	2	1	2	-	3
CO3	2	-	3	1	1	3	2	-	3	-
CO4	1	-	2	-	3	-	2	-	1	3
CO5	3	2	1	2	2	1	-	3	2	3
Ave rage	2.0	2.33	2.0	1.75	2.0	2.0	2.0	2.0	2.0	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 1.72 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.16

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#### II YEAR - IV SEMESTER - PAPER- IV- PRACTICAL

				I	MAPPING(COs & PS	SOs)				
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	-	3	3	2	3	3	-	3
CO2	2	3	3	2	2	1	3	2	1	-
CO3	1	3	2	-	3	3	2	-	3	3
CO4	3	2	3	3	-	2	3	2	3	2
CO5	3	2	3	2	3	2	3	3	3	3
Ave rage	2.4	2.4	2.2	2.0	2.2	2.0	2.6	2.0	2.0	2.2

OVER ALL AVERAGE BETWEEN COS & POS =2.25 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.06

# ENRICH EN

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#### III YEAR V SEMESTER - COURSE - V- THEORY

				MA	PPING(COs & PSC	Os)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowled ge	Creative and critical thinking and problem solving abilities	Communicatio n Skills and Team Work	Digital Capabilities	Social Responsibilities, Ethical and Environmental Competency	Employability and Research related Skills	Life-Long Learning			
CO1	3	1	-	2	-	3	2	-	1	3
CO2	-	3	2	-	3	-	1	3	-	2
CO3	1	2	-	2	-	2	-	2	2	-
CO4	1	-	3	3	2	-	3	-	3	3
CO5	3	2	2	3	2	1	2	2	2	2
Ave rage	2.0	2.0	2.33	2.5	2.33	2.0	2.0	2.33	2.0	2.5

OVER ALL AVERAGE BETWEEN COS & POS =2.22



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#### II YEAR IV SEMESTER - PAPER- V- PRACTICAL

				MAPF	PING(COs & PS	Os)				
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	3	2	-	2	3
CO2	2	1	3	-	3	-	3	3	3	2
CO3	3	2	-	2	3	2	3	2	3	2
CO4	-	3	2	3	2	3	2	3	-	3
CO5	3	2	3	3	2	3	3	2	3	-
Average	2.2	2.0	2.2	2.2	2.4	2.2	2.6	2.0	2.2	2.0

OVER ALL AVERAGE BETWEEN COS & POS =2.25

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#### III YEAR V SEMESTER - COURSE - VI- THEORY

					MAPPINO	G(COs & PS	Os)			
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6 Employabil ity and Research related Skills	PO7 Life- Long Learning	PSO 1	PSO2	PSO3
CO1	3	-	2	1	-	4	2	1	2	3
CO2	2	3	-	3	2	1	-	2	1	-
CO3	1	1	3	-	1	2	1	3	-	2
CO4	3	2	-	2	-	3	1	-	2	-
CO5	2	2	1	-	3	-	3	1	2	3
Ave rage	2.75	2.33	2.0	2.0	2.0	2.5	2.0	1.75	1.75	2.66

OVER ALL AVERAGE BETWEEN COS & POS =1.94 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.05



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#### III YEAR V SEMESTER - PAPER- VI- PRACTICAL

				M	APPING(COs	& PSOs)				
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6 Employabil ity and Research related Skills	PO7 Life- Long Learning	PSO 1	PSO2	PSO3
CO1	3	2	3	-	2	3	1	3	2	3
CO2	2	3	-	3	2	ı	2	3	3	-
CO3	-	2	3	3	3	2	3	2	-	3
CO4	2	1	3	2	3	2	-	3	3	2
CO5	3	2	3	2	3	3	3	-	3	2
Ave rage	2.0	2.2	2.4	2.0	2.6	2.0	2.0	2.2	2.2	2.0

OVER ALL AVERAGE BETWEEN COS & POS =2.17

# STANGONIESE BUMBER

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### III YEAR V SEMESTER - COURSE - VII- THEORY

					MAPPING	(COs & PSO	Os)			
	PO1 Essentia 1 Domain Knowle dge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilitie s	PO5 Social Responsibiliti es, Ethical and Environmenta l Competency	PO6 Employabi lity and Research related Skills	PO7 Life- Long Learnin g	PSO 1	PSO2	PSO3
CO1	2	-	3	2	-	1	3	3	1	-
CO2	3	2	-	1	2	-	-	2	2	2
CO3	2	-	2	-	3	2	3	-	2	2
CO4	3	2	-	3	2	2	2	3	-	1
CO5	-	3	2	2	1	3	2	-	2	-
Ave rage	2.5	2.33	2.33	2.0	2.0	2.0	2.5	2.66	1.75	1.66

OVER ALL AVERAGE BETWEEN COS & POS =2.33 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.023

# STANISTILLES IN UNEX

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#### III YEAR V SEMESTER – PAPER- VII- PRACTICAL

				MA	APPING(COs &	& PSOs)				
	PO1 Essentia l Domain Knowle dge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilitie s	PO5 Social Responsibiliti es, Ethical and Environmenta 1 Competency	PO6 Employabi lity and Research related Skills	PO7 Life- Long Learnin g	PSO 1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	2	3	-
CO2	-	3	2	3	-	2	3	-	3	2
CO3	3	3	1	-	3	1	-	3	2	3
CO4	3	3	2	3	2	3	2	3	-	3
CO5	3	-	3	2	3	2	3	2	3	2
Average	2.4	2.2	2.2	2.0	2.2	2.0	2.2	2.0	2.2	2.0

OVER ALL AVERAGE BETWEEN COS & POS = 2.17 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.06

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#### III YEAR VI SEMESTER - COURSE - VIII- PROJECT

				MAPPINO	G(COs & PS	Os)				
	PO1 Essential Domain Knowledge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibi lities, Ethical and Environme ntal Competenc	PO6 Employabilit y and Research related Skills	PO7 Life- Long Learn ing	PSO1	PSO2	PS 03
CO1	3	1	2	2	3	2	1	-	3	2
CO2	2	-	3	2	-	1	2	3	-	2
CO3	3	2	1	3	3	2	-	1	3	-
CO4	-	3	-	2	-	3	2	3	2	1
CO5	1	-	3	-	1	-	3	2	1	2
Average	2.25	2.0	2.25	2.25	2.33	2.0	2.0	2.25	2.25	1.75

OVER ALL AVERAGE BETWEEN COS & POS =2.15 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.08



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#### III YEAR VI SEMESTER - PAPER- VIII- PROJECT

	MAPPING(COs & PSOs)									
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6 Employabil ity and Research related Skills	PO7 Life- Long Learning	PSO 1	PSO2	PSO3
CO1	3	2	-	3	2	3	-	2	3	3
CO2	1	3	3	3	3	1	3	3	2	-
CO3	3	2	3	-	2	3	3	3	2	3
Average	2.3	2.3	2.0	2.0	2.3	2.3	2.0	2.6	2.3	2.0

OVER ALL AVERAGE BETWEEN COS & POS =2.17 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.3

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#### III YEAR - CHEMISTRY THEORY

			MAP	PING (COs	& POs)				IAPPIN Os & PS	
COs	PO1 Essential Domain Knowle dge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communi cation Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilitie s, Ethical and Environmental Competency	PO6 Employabi lity and Research related Skills	PO7 Life- Long Learning	PSO 1	PSO2	PSO3
PAPER -I	2.25	2.8	2.0	2.6	3.5	3.0	2.0	3.5	2.75	2.0
PAPER -II	2.6	2.25	2.75	2.5	2.66	2.33	2.0	2.25	2.5	2.33
PAPER -III	2.2	2.0	2.33	2.66	2.33	2.0	2.25	2.33	2.33	2.0
PAPER -IV	2.0	2.33	2.0	1.75	2.0	2.0	2.0	2.0	2.0	2.5
PAPER -V	2.0	2.0	2.33	2.5	2.33	2.0	2.0	2.33	2.0	2.5
PAPER -VI	2.75	2.33	2.0	2.0	2.0	2.5	2.0	1.75	1.75	2.66
PAPER -VII	2.5	2.33	2.33	2.0	2.0	2.0	2.5	2.66	1.75	1.66
PAPER -VIII	2.25	2.0	2.25	2.25	2.33	2.0	2.0	2.25	2.25	1.75
Average	2.06	2.25	2.24	2.28	2.39	2.22	2.09	2.38	2.16	2.17

OVER ALL AVERAGE BETWEEN COS & POS =2.21 OVER ALL AVERAGE BETWEEN COS & PSOS =2.23



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#### **DEPARTMENT OF COMMERCE**

SI. No	Sem ester	Course Code	Course Title		Course Outcomes (Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
1	I	BCO1S -1K	FUNDAMEN TALS OF ACCOUNTIN G	CO1 CO2 CO3 CO4 CO5	Identify transactions and events that need to be recorded in the books of accounts  Equip with the knowledge of accounting process and preparation of final accounts of sole trader.  Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.  Analyze the difference between cash book and pass book in terms of balance and make reconciliation.  Critically examine the balance sheets of a sole trader for different accounting periods  Design new accounting formulas & principles for business organizations.	PO1, PO2, PO6, PO7.  PO1, PO2, PO3, PO5, PO6, PO7.  PO1, PO2, PO3, PO6, PO7.  PO1, PO2, PO3, PO4, PO6, PO7.  PO1, PO2, PO3, PO4, PO5, PO6, PO7.  PO1PO2, PO5, PO6, PO7.	PSO1, PSO2, PSO3.  PSO1, PSO2, PSO3.
2	I	BCO1S	Business	CO1		PO1, PO2, PO3,	PSO1, PSO2,

		-2K	Organization		Understand different forms of business organizations.	PO5, PO6	PSO3
			and				
			Management	CO2	Comprehend the nature of Joint Stock Company and formalities	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	to promote a Company	PO6,	PSO3.
				CO3	Describe the Social Responsibility of Business towards the society.	PO1, PO2,	PSO1, PSO2,
				CO3		PO3,PO7.	PSO3.
				CO4	Critically examine the various organizations of the business firms	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	And judge the best among them	PO5, PO6,PO7.	PSO3.
				CO5	Design and plant register business firm. Prepare different	PO1, PO2, PO3,	PSO1, PSO2,
				CO3	Documents to register a company at his own	PO4, PO6, PO7.	PSO3.
					Articulate new models of business organizations.	PO1,PO2,PO3,P	PSO1, PSO2,
				CO6		O5,PO6,PO7	PSO3.
				C06			
						PO1, PO2, PO3,	PSO1, PSO2,
				CO1	Understand the concept of business environment	PO5,PO7.	PSO3.
				CO2	Define Internal and External elements affecting business	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	environment.	PO7.	PSO3.
					Explain the economic trends and its effect on Government	PO1, PO2,	PSO1, PSO2,
2	т	BCO1S	Business	CO3	policies	PO3,,PO5, PO6,	PSO3.
3	1	-3K	Environment			PO7.	
				CO4	Critically examine the recent developments in economic and	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	Business policies of the Government	PO6, PO7.	PSO3.
				CO5	Evaluate and judge the best business policies in Indian business	PO1, PO2, PO3,	PSO1, PSO2,
				003	environment	PO6, PO7.	PSO3.
				CO6	Develop the new ideas for creating good business environment	PO1, PO2, PO3,	PSO1, PSO2,
				C06		PO6, PO7.	PSO3.
						PO1, PO2, PO3,,	PSO1, PSO2,
4	II	BCO2S	Financial	CO1	Understand the concept of consignment and learn the accounting	PO6, PO7.	PSO3
4	11	-1K	Accounting		treatment of the various aspects of consignment.		
				CO2	Analyze the accounting process and preparation of accounts	PO1, PO2,	PSO1, PSO2,

					In consignment and joint venture.	PO3,PO5, PO6,	PSO3.
						PO7.	
					Distinguish Joint Venture and Partnership and to learn the	PO1, PO2, PO3,	PSO1, PSO2,
				CO3	Methods of maintaining records under Joint Venture	, PO5, PO6,	PSO3.
						PO7.	
					Determine the use full life and value of the depreciable assets	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	And maintenance of Reserves in business entities	PO5, PO6,	PSO3.
						PO7.	
					Design an accounting system for models of	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	Businesses a this own using the principles of existing accounting system	PO4, PO7.	PSO3.
					Describe the nature of economics in dealing with the issues of	PO1, PO2, PO3,	
				CO1	scarcity of resources.	PO5, PO6,	PSO1, PSO2,
						PO7.	PSO3.
					Analyze supply and demand analysis and its impact on	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	Consumer behavior.	PO5, PO6,	PSO3.
						PO7.	
		BCO2S	Business		Evaluate the factors, such as production and costs affecting	PO1, PO2, PO3,	PSO1, PSO2,
5	II	-2K	Economics	CO3	Firms behavior.	PO5,PO6,	PSO3.
		210				PO7.	
						PO1, PO2, PO3,	PSO1, PSO2,
				CO4	Use economic analysis to evaluate controversial issues and	PO5, PO6,	PSO3
					policies.	PO7.	
					Apply economic models for managerial problems, identify their	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	relationships, and formulate the decision making tools to be applied for business.	PO5, PO6,	PSO3, PSO4.
						PO7.	PGO1 PGO2
				CO1	Understand the basic concepts of banks and functions of commercial banks.	PO1, PO2, PO3,	PSO1, PSO2,
		DCC2C	Banking			PO4, PO7.	PSO3.
6	II	BCO2S	Theory and	000	Demonstrate an awareness of law and practice in a banking context.	PO1, PO2, PO3,	PSO1, PSO2,
		-3K	Practical	CO2		PO5, PO6,	PSO3.
				CO2	Engage in suiting analysis of the pro-tile of the plant in a large	PO7.	DCO1 DCO2
				CO3	Engage in critical analysis of the practice of banking law	PO1, PO2, PO3,	PSO1, PSO2,

						PO5, PO6, PO7.	PSO3.
				CO4	Organize information as it relates to the regulation of banking Products and services	PO1, PO2, PO3, PO5, PO7.	PSO1, PSO2, PSO3.
				CO5	Critically examine the current scenario of Indian Banking system.	PO1, PO2, PO3, PO7.	PSO1, PSO2, PSO3.
				CO1	Understand the concept of Non-profit organizations and its accounting process	PO1, PO2, PO3, PO5, PO7.	PSO1, PSO2, PSO3.
				CO2	Comprehend the concept of single-entry system and Preparation of statement of affairs	PO1, PO2, PO3,PO6, PO7	PSO1, PSO2, PSO3.
7	III	BCO3S -1K	Advanced Accounting	CO3	Familiarize with the legal formalities at the time of Dissolution of the firm	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Prepare financial statements for partnership firm on Dissolution of the firm.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes (Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
	Ш	BCO3		CO1 CO2	Understand the importance of Statistics in real life  Formulate complete, concise, and correct mathematical proofs.	PO1, PO2, PO3, PO5, PO6, PO7. PO1, PO2, PO3, PO5, PO6, PO7.	PSO1, PSO2, PSO3. PSO1, PSO2, PSO3.
8	III	S-2K	Business Statistics	CO3 CO4 CO5	Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques  Build and assess data-based models  Learn and apply the statistical tools in day life.	Program Specific Outcomes (POs)  PO1, PO2, PO3, PSO1, PSO2, PSO3. PO7.  PO1, PO2, PO3, PSO1, PSO2, PSO3. PO7.  PO1, PO2, PO3, PSO1, PSO2, PSO3.	
				CO1	Develop an idea about marketing and marketing environment.  Understand the consumer behavior and market	PO1, PO2, PO3, PO7.	PSO3 PSO1, PSO2,
9	III	BCO3	Marketing	CO3	Segmentation process  Comprehend the product life cycle and product line decisions.	PO1, PO2, PO3,	PSO1, PSO2,
		S-3K		CO4	Know the process of packaging and labeling to attract the customers.	PO4, PO5, PO6,	í í
				CO5	Formulate new marketing strategies for a specific new product.		· · · · · · · · · · · · · · · · · · ·

	III		Programming with		Develop programming skills	PO1, PO2, PO3,	PSO1, PSO2,
			C &c++	CO1		PO4, PO6,PO7	PSO3
					Declaration of variables and constants use of operators and	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	expressions	PO4, PO6,PO7.	PSO3.
				G 0 4	Learn the syntax and semantics of programming language	PO1, PO2, PO3,	PSO1, PSO2,
				CO3		PO4, PO6,PO7.	PSO3.
				CO4	Be familiar with programming environment of C and C++	PO1, PO2, PO3,	PSO1, PSO2,
				CO4		PO4, PO6,PO7.	PSO3.
					Ability to work with textual information (characters and strings) &	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	arrays.	PO4, PO6,PO7.	PSO3.
						PO1, PO2, PO3	PSO1, PSO2,
				CO1	Understand the Accounting treatment of Share Capital and aware of process of bookbuilding	.PO5, PO7.	PSO3.
				CO2	Demonstrate the procedure for issue of bonus shares and buy back	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	of shares.	PO4, PO7.	PSO3.
10	IV	BCO4	Corporate		Comprehend the important provisions of Companies	PO1, PO2, PO3,	PSO1, PSO2,
10	1,	S-1K	Accounting	CO3	Act,2013andprepare final accounts of accompany with Adjustments.	PO6, PO7.	PSO3.
				CO4	Participate in the preparation of consolidated accounts for a	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	Corporate group	PO5, PO6, PO7.	PSO3.
				CO5	Understand analysis of complex issues, formulation of well-	PO1, PO2, PO3,	PSO1, PSO2,
				003	reasoned arguments and reaching better conclusions.	PO4, PO6, PO7.	PSO3.
				CO1		PO1, PO2,	PSO1, PSO2,
		BCO4	CostandManageme		Understand various costing methods and management techniques.	PO4, PO6, PO7.	PSO3
11	IV	S-2K	ntAccounting		Apply Cost and Management accounting methods for both	PO1, PO2, PO3,	PSO1, PSO2,
				CO2	Manufacturing and service industry	PO4, PO5, PO6,	PSO3.
						PO7.	

				~~~	Prepare cost sheet, quotations, and tenders to organization For different works	PO1, PO2,	PSO1, PSO2,
				CO3	For different works	PO4, PO5, PO6,	PSO3.
						PO7.	PGO1 PGO2
				004	Analyze cost-volume-profit techniques to determine optimal Managerial decisions	PO1, PO2,	PSO1, PSO2,
				CO4	Wallagerial decisions	PO4, PO5, PO6,	PSO3.
						PO7.	PGO1 PGO2
				005	Compare and contrast the financial statements of firms and Interpret the results.	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	interpret the results.	PO4, PO7.	PSO3.
					A conjugathe compilete Imperiledge of the toy exection toy evoldence	DO1 DO2	DGG1 DGG2
				CO1	Acquire the complete knowledge of the tax evasion, tax avoidance and tax planning.	PO1, PO2,	PSO1, PSO2,
					and tax planning.	PO4, PO5, PO6,	PSO3.
						PO7.	PGO1 PGO2
				GOO	Understand the provisions and compute income tax for various	PO1, PO2,	PSO1, PSO2,
				CO2	sources.	PO4, PO5, PO6,	PSO3.
		D.CO. 4				PO7.	PGO1 PGO2
12	IV	BCO4	IncomeTax	GO2	Grasp amendments made from time to time in Finance Act.	PO1, PO2,	PSO1, PSO2,
		S-3K		CO3		PO4, PO5, PO6,	PSO3.
						PO7.	PGO1 PGO2
				004	Compute total income and define tax complicacies and structure.	PO1, PO2,	PSO1, PSO2,
				CO4	structure.	PO4, PO5, PO6,	PSO3
						PO7.	PGO1 PGO2
				005	Prepare and File IT returns of individual at his own. Compare and contrast the financial statements of firms and interpret the	PO1, PO2,	PSO1, PSO2,
				CO5	results.	PO4, PO5, PO6,	PSO3, PSO4.
						PO7.	DCO1 DCO2
				CO1	Understand the legal environment of business and laws of business.	PO1, PO2, PO3,	PSO1, PSO2,
						PO5, PO7.	PSO3.
1.0	BCO4	D ' I	COS	Highlight the security aspects in the present cyber-crime scenario.	PO1, PO2, PO3,	PSO1, PSO2,	
13	IV	S-4K	BusinessLaw	CO2		PO5, PO6,	PSO3.
						PO7.	DGO1 DGO2
				CO3	Apply basic legal knowledge to business transactions.	PO1, PO2, PO3,	PSO1, PSO2,
						PO5, PO6,	PSO3.

						PO7.	
				CO4	Understand the various provisions of Company Law	PO1, PO2, PO3,	PSO1, PSO2,
				CO4		PO5, PO7.	PSO3.
					.Engage critical thinking to predict outcomes and recommend	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	appropriate action on issues relating to business associations And legal issues	PO7.	PSO3.
					Integrate concept of business law with foreign trade.	PO1,PO2,	PSO1, PSO2,
				CO6		PO5,PO6	PSO3.
						PO7.	
				CO1	Understanding the meaning and necessity of audit in modern era	PO1, PO2, PO3,	PSO1, PSO2,
				COI		PO7.	PSO3.
				G02	Comprehend the role of auditor in avoiding the corporate frauds.	PO1, PO2, PO3,	PSO1, PSO2,
				CO2		PO7	PSO3.
		BCO4		GO2	Identify the steps involved in performing audit process	PO1, PO2, PO3,	PSO1, PSO2,
14	IV	S-5K	Auditing	CO3		PO6, PO7.	PSO3.
		3-3K		CO4	Determine the appropriate audit report for a given audit	PO1, PO2, PO3,	PSO1, PSO2,
				CO4	situation	PO6, PO7.	PSO3.
					Apply auditing practices to different types of business	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	entities.	PO5, PO6,	PSO3.
						PO7.	
					Plan an audit by considering concepts of evidence, risk and	PO1, PO2, PO3,	PSO1, PSO2,
				CO6	materiality	PO5, PO6,	PSO3.
						PO7.	
15	IV				Understand the role of a database management system in an	PO1, PO2, PO3,	PSO1, PSO2,
				CO1	organization	DO 4 DO 6 DO 7	PSO3.
					The decrease of the six details are somewhat in shading the consequence in the same of the	PO4, PO6, PO7.	DGO1 DGO2
			Database		Understand basic database concepts, including the an organization.	PO1, PO2, PO3,	PSO1, PSO2,
			Management	CO2		PO4, PO5, PO6,	PSO3.
			system				
						PO7.	
				002	Understand and successfully apply logical database design	PO1, PO2, PO3,	PSO1, PSO2,
				CO3	principles, including E-R Diagrams and database normalization.	PO4, PO6,PO7.	PSO3.
						104, 100,107.	

		CO4	To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing and implementing a DBMS.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.	
		CO5	Understand Functional Dependency and Functional Decompostion.	PO1, PO2, PO3, PO4, PO5, PO6,	PSO1, PSO2, PSO3.	
				PO7.		ļ

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes (Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	Understand the basic principles underlying the Indirect Taxation Statutes.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO2	Examine the method of tax credit. Input and Output Tax credit and Cross Utilization of Input Tax Credit	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
15	IV	BCO4S -6K	GoodsandServi ceTaxes	CO3	Identify and analyze the procedural aspects under different Applicable statutes related to GST.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Develop various GST Returns and reports for business Transactions in Tally	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Understand the nature and scope of management accounting and differentiate management accounting, financial Accounting and cost accounting.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3
		BCO6S	MANAGEME NTACCOUNT	CO2	Compute ratios and draw inferences	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
16	VI	-18A	INGANDPRA CTICE	CO3	Analyze the performance of the organization by preparing Funds flow statement and cash flow statements	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
				CO4	Prepare cash budget, fixed budget and flexible budget.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Differentiate cost control, cost reduction concepts and identify effective techniques.	PO1, PO2, PO3, PO4. PO7.	PSO1, PSO2, PSO3.
17	VI	BCO6S	COSTCONTR OLTECHNIQ	CO2	Allocate over heads on the basis of Activity Based Costing	PO1, PO2, PO3,	PSO1, PSO2,
1 /	V 1	-19A	UES			PO4, PO7.	PSO3.
				CO3	Evaluate techniques of cost audit and rules for cost record.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.

						PO1, PO2, PO3,	PSO1, PSO2,
				CO4	Appraise the application of marginal costing techniques to	PO4, PO6, PO7.	PSO3.
					evaluate performances, fix selling price, make or buy decisions		
					Understand the Features of Life Insurance, schemes and policies and	PO1, PO2, PO3,	PSO1, PSO2,
				CO1	insurance companies in India	PO6, PO7.	PSO3
				CO2	Analyze various schemes and policies related to Life Insurancesector	PO1, PO2, PO3,	PSO1, PSO2,
						PO5, PO6,	PSO3.
						PO7.	
			LIFEINSURA	CO3	Choose suitable insurance policy for given situation and	PO1, PO2, PO3,	PSO1, PSO2,
18	VI	BCO6S	NCEWITHPR		Respective persons	PO5, PO6,	PSO3.
10	V 1	-20B	ACTICE			PO7.	
			Heriel	CO4	Acquire Insurance Agency skills and other administrative skills	PO1, PO2, PO3,	PSO1, PSO2,
						PO5, PO6,	PSO3.
						PO7.	
				CO5	Acquire skill of settlement of claims under various	PO1, PO2, PO3,	PSO1, PSO2,
					circumstances	PO5,PO6, PO7.	PSO3.
					Understand the Features of General Insurance and		
				CO1	InsuranceCompaniesin India	PO1, PO2, PO3,	PSO1, PSO2,
						PO5, PO6,	PSO3.
						PO7.	
			GENERALIN	CO2	Analyze various schemes and policies related to GeneralInsurance	PO1, PO2, PO3,	PSO1, PSO2,
		D.C.C.C.	SURANCE		sector	PO5, PO6,	PSO3.
19	VI	BCO6S	PROCEDURE			PO7.	
		-21B	ANDPRACTI	CO3	Choose suitable insurance policy under Health, Fire, Motor,	PO1, PO2, PO3,	PSO1, PSO2,
			CE		andMarine Insurances	PO5,PO6,	PSO3.
						PO7.	
				CO4	Acquire General Insurance Agency skills and administrative	PO1, PO2, PO3,	PSO1, PSO2,
					skills	PO5, PO6,	PSO3
						PO7.	

				CO5	.Apply skill for settlement of claims under various circumstances	PO1, PO2, PO3, PO5, PO6, PO7.	PSO1, PSO2, PSO3, PSO4.					
				CO1	.Analyze online Micro and Macro Environment	PO1, PO2, PO3, PO5, PO7.	PSO1, PSO2, PSO3.					
					Designandcreatewebsite	PO1, PO2, PO3,	PSO1, PSO2,					
				CO2	Designandereate website	PO4, PO5, PO6,	PSO3.					
20	VI	BCO6S	DIGITAL			PO7.	1503.					
20	VI	-16C	MARKETING			PO1, PO2, PO3,	PSO1, PSO2,					
				CO3	Discuss search engine marketing	PO4, PO5, PO6,	PSO3.					
						PO7.						
						PO1, PO2, PO3,	PSO1, PSO2,					
				CO4	Create blogs, videos, and share	PO4, PO5, PO7.	PSO3.					
							PO1, PO2, PO3,	PSO1, PSO2,				
				CO1	Discuss the reasons for growth of service sector	PO5, PO7.	PSO3.					
				CO2	Examine the marketing strategies of Banking Services, insurance and	PO1, PO2, PO3,	PSO1, PSO2,					
										education services.	PO5. PO7	PSO3.
		BCO6S	Service	CO3	Review conflict handling and customer Responses in services	PO1, PO2, PO3,	PSO1, PSO2,					
21	VI	-17C			marketing	PO5, PO6, PO7.	PSO3.					
		1,0	Marketing _		Describe segmentation strategies in service marketing	PO1, PO2, PO3,	PSO1, PSO2,					
						PO5, PO6, PO7.	PSO3.					
					CO5	Suggest measures to improve services quality and their	PO1, PO2, PO3,	PSO1, PSO2,				
					Service delivery	PO5, PO6,	PSO3.					
						PO7.						

#### BCO1S-1K FUNDAMENTALS OF ACCOUNTING I YEAR – B.COM – I SEMESTER

			M	APPING(COs o	& POs)			MAPPING(COs & PSOs)		
	PO1 Essenti al Domain Knowle dge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2				3	3	2	3	3
CO2	3	3	2		3	3	2	3	3	3
CO3	3	3	3	2		3	3	3	2	3
CO4	3	3	3	2		3	3	3	3	3
CO5	3	3	3	1	3	3	3	3	3	2
CO6	3	2			2	3	2	3	2	3
Average	3	2.6	2.7	1.6	2.6	3	2.6	2.8	2.6	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

### BCO1S-2KBusinessOrganizationandManagement I YEAR – B.Com — I SEMESTER –

			MA	APPING(COs &	POs)			MAPPING(COs PSOs)		
	PO1 Essential Domain Knowledg e	PO2  Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2			3	3		2	3	3
CO2	3	3	1			3		3	3	2
CO3	3	3	1		3		2	3	3	3
CO4	3	2			2	3	2	3	2	3
CO5	3	3	1	2		3	2	2	3	3
CO6	3	2	1		1	1	2	3	2	2
Average	3	2.5	1	2	2.2	2.6	2	2.6	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.1 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

# BCO1S-3K Business Environment= I YEAR – B.COM – I SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain	PO2 Creative and critical	PO3  Communic ation Skills	PO4  Digital  Capabilities	PO5 Social Responsibilities,	PO6 Employabilit y and	PO7 Life-Long Learning	PSO1	PSO2	PSO3
	Knowled ge	thinking and problem solving abilities	and Team Work	Capasinaes	Ethical and Environmental Competency	Research related Skills	g			
CO1	3		2				1	3	2	3
CO2	3	2	3				1	2	3	3
CO3	3	1	3		3	3	1	3	2	3
CO4	3	2	2			2	1	3	2	2
CO5	3		1			3	2	3	2	3
CO6	3	2	2			3	1	2	3	2
Average	3	1.7	2.1		3	2.7	1.5	2.6	2.3	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

## BCO2S-1K Financial Accounting I YEAR – B.COM – II SEMESTER

			MAPPING(COs & PSOs)							
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3			2	2	3	2	3
CO2	3	3	3		2	3	3	3	3	2
CO3	3	2	2			3	2	2	3	2
CO4	3	3	2			2	3	3	2	3
CO5	3	3	2				2	3	2	3
Average	3	2.6	2.4		2	2.5	2.4	2.8	2.4	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.1

#### BCO2S-2KBusinessEconomics I YEAR – B.COM – II SEMESTER

			MA	APPING (COs &	& POs)			MAPPING(COs & PSOs)		
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	1		3	2	2	3	2	3
CO2	3	3	3		2	3	3	2	2	3
CO3	3	2	2		3	2	2	3	3	2
CO4	3	3	3		2	3	1	3	2	3
CO5	3	2	2		1	2	1	3	3	2
Average	3	2.4	2.2		2.2	2.4	1.8	2.8	2.4	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.3

## $BCO2S\text{-}3KB anking Theory and Practice I\ YEAR-B.COM-II\ SEMESTER$

			MA	APPING (COs &	& POs)			MAPPING(COs & PSOs)			
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	2	3				1	3	2	2	
CO2	2	3	2		3	3	2	3	3	2	
CO3	3	2	2		2	2	3	2	2	3	
CO4	3	3	3		3	3	3	3	2	3	
CO5		2	2				3	3	3	2	
Average	2.7	2.4	2.4		2.6	2.6	2	2.8	2.4	2.4	

OVER ALL AVERAGE BETWEEN COS & POS = 2.4

# BCO3S-1K AdvancedAccounting II YEAR – B.COM – III SEMESTER

	MAPPING (COs & POs)									MAPPING(COs & PSOs)			
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3			
CO1	2	3	3		3		3	3	2	2			
CO2	3	3	3			3	1	2	3	3			
CO3	3	3	2	1		2	2	3	3	2			
CO4	3	3	3	2		2	3	3	3	2			
CO5	2	2	2	2	3	3	2	3	2	3			
Average	2.6	2.8	2.6	1.6	3	2.5	2.2	2.8	2.6	2.4			

OVER ALL AVERAGE BETWEEN COS & POS = 2.4

### BCO3S-2K BUSINESS STATISTICS II YEAR – B.COM – III SEMESTER

			MAPPING(COs & PSOs)							
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	abilities 3	2	2	2	2	2	2	2	3
CO2	3	2	3		3	3	2	3	2	2
CO3	3	3	2			2	2	3	3	3
CO4	3	3		2		2	3	2	2	3
CO5	3	2		3	3	3	3	2	2	3
Average	3	2.6	2.3							

OVER ALL AVERAGE BETWEEN COS & POS = 2.63

BCO3S-3K	MARKETING	II YEAR - I	R COM -	- III SEMESTER
DCO30 3IX				

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3			2	2	3	2	3
CO2	3	3	3				3	3	3	2
CO3	3	3	2				3	2	3	3
CO4	3	3	3		2	3	2	3	3	2
CO5	3	2	3			3	3	2	3	3
Average	3	2.6	2.8		2	2.6	2.6	2.6	2.8	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

#### BCO4S-1K CORPORATING ACCOUNTING II YEAR – B.COM – IV SEMESTER

			MA	APPING (COs &	& POs)			MAPPING(COs & PSOs)		
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	1		3		2	3	2	3
CO2	3	3	2	1			3	2	3	3
CO3	3	3	1			3	3	3	3	2
CO4	3	3	2		3	3	3	3	3	2
CO5	3	3	1	2		3	3	3	2	3
Average	3	2.8	1.4	1.5	3	3	2.8	2.8	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

BCO4S-2K COST ANDMANAGEMENT ACCOUNTING I YEAR	– B.COM – I SEMESTER
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				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2		2		2	1	2	3	3
CO2	3	3	2	2	2	3	2	3	3	2
CO3	3	3		2	3	3	1	3	3	3
CO4	3	3		2	3	3	2	3	2	3
CO5	3	3		2		3	1	2	3	3
Average	3	2.8	2	2	2.6	2.8	1.4	2.6	2.8	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.3

#### BCO4S-3K INCOME TAX II YEAR – B.COM – IV SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2				2	2	3	2	3
CO2	3	2				3	3	2	3	3
CO3	3	3				3	3	3	3	2
CO4	3	3				3	3	3	2	3
CO5	3	3				3	2	3	3	3
Average	3	2.6				2.8	2.6	2.8	2.6	2.8

OVER ALL AVERAGE BETWEEN COS & POS = 2.7

### BCO4S-4K BUSINESS LAW II YEAR – B.COM – IV SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2		2	2	2	2	3	3
CO2	3	3	3		3	3	2	3	3	2
CO3	3	2	2		3	3	2	3	2	3
CO4	3	2	3		2	3	2	3	3	2
CO5	3	2	3		3	3	2	2	2	3
CO6	3	2	3		3	3	2	3	3	2
Average	3	2.1	2.6		2.6	2.8	2	2.6	2.6	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

### BCO4S-5K AUDITING I YEAR – B.COM – I SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2				1	3	2	3
CO2	3	2	2				2	2	3	2
CO3	3	3	2			2	2	3	3	2
CO4	3	2	3			2	2	3	3	3
CO5	3	3	2		3	2	2	3	3	3
CO6	3	3	2		3	3	2	3	2	3
Average	3	2.5	2.1		3	2.2	1.8	2.8	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.4

### BCO4S-6K GOODS AND SERVICE TAX II YEAR – B.COM – IV SEMESTER

				MAPPING (COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	1	1	2	1	2	2	3	2
CO2	3	3	2	2	3	2	3	3	3	2
CO3	3	3	3	3		3	3	3	2	3
CO4	3	3	2	3		3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	2	3
Average	3	2.8	2.2	2.4	2.6	2.4	2.8	2.6	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

#### BCO6S-18AMANAGEMENT ACCOUNTING AND PRACTICE III YEAR – B.COM –VI SEMESTER

			MAPPING(COs & PSOs)							
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	2	2			2	2	3	2
CO2	3	2	3	2		3	2	3	3	2
CO3	3	3	3	3			3	2	3	3
CO4	3	3	3	3	3	2	3	3	2	3
Average	3	2.5	2.7	2.5	3	2.5	2.5	2.5	2.7	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

## BCO6S-19ACOST CONTROL TECHNIQUES III YEAR – B.COM – VI SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	2	2	2			2	2	2	2
CO2	3	3	3	2			2	2	3	3
CO3	3	3	2	3		3	2	3	3	3
CO4	3	3	3	3		3	3	3	3	2
Average	2.7	2.7	2.5	2.5		3	2.2	2.5	2.7	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.6

### BCO6S-20BLIFE INSURANCE WITH PRACTICE III YEAR – B.COM – VI SEMESTER

		MAPPING(COs & PSOs)								
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	2	2			2	2	2	2	2
CO2	3	2	2		2	2	2	3	3	2
CO3	3	3	3		2	3	3	2	3	2
CO4	3	3	3		3	3	3	3	3	3
CO5	3	3	3			3	3	3	3	3
Average	2.8	2.6	2.6		2	2.6	2.6	2.6	2.8	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.5

#### BCO6S-21BGENERAL INSURANCEPROCEDURE AND PRACTICE III YEAR – B.COM – VI SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essenti al Domai n Knowle dge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	2	2		2	2	2	2	2	2
CO2	3	2	2		2	2	2	3	2	2
CO3	3	3	3		3	3	3	3	3	2
CO4	3	3	3		3	3	3	3	3	3
CO5	3	3	3		3	3	3	3	3	3
Average	2.8	2.6	2.6		2.6	2.6	2.6	2.8	2.6	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.63

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

BCO6S-16CDIGITAL MARKETING III YEAR – B.COM – VI SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6  Employabilit   y and   Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	2	2		2		2	2	2	2
CO2	3	2	2	2	3	2	2	3	2	2
CO3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3		3	3	3	3
Average	2.7	2.5	2.5	2.6	2.7	2.5	2.5	2.7	2.5	2.5

#### BCO6S-17CSERVICE MARKETING III YEAR – B.COM – VI SEMESTER

				MAPPING(COs & PSOs)						
	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3  Communic ation Skills and Team Work	PO4  Digital  Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	2	2	2		2		2	2	2	2
CO2	3	2	2		2		2	3	2	2
CO3	3	3	3		3	2	3	3	3	2
CO4	3	3	3		3	3	3	3	3	3
CO5	3	3	3		3	3	3	3	3	3
Average	2.8	2.6	2.6		2.6	2.6	2.6	2.8	2.6	2.4

OVER ALL AVERAGE BETWEEN COS & POS = 2.63



### ST. ANN'S COLLEGE FOR WOMEN

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### **DEPARTMENT OF BCA**

#### **BCA -THEORY**

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
1	I	C1	Computer Fundamentals and Office Tools	CO1	Describe the usage of computers and why computers are essential components in business and society.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO2	Identify categories of programs, system software and applications.  Organize and work with files andfolders.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				СОЗ	Compose, format and edit a word document and working withmacros	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Create work sheets and using various functions.	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Make presentations and inserting multimedia inthem	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
2		C2	Programming in C	CO1	Understand the basic terminology used in computerprogramming	PO1, PO2, PO3, PO4, PO6,PO7	PSO1, PSO2, PSO3
				CO2	Write, compile and debug programs in Clanguage.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO3	Use different data types in a computerprogram	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.



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				CO4	Design programs involving decision structures, loops and functions	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO5	Understand the dynamics of memory by the use of pointers and Structures.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO6	Apply different operations in Filehandling.	PO1, PO2, PO3, PO4, PO6,PO7	
3		C3	Numerical and Statistical Methods	CO1	Skill to choose and apply appropriate numerical methods to obtain appropriate solutions to difficult mathematical problems.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO2	Ability to apply various statistical techniques such as Measures of Central Tendency and Dispersion	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO3	Skill to execute programs of various Numerical Methods and Statistical techniques for solving mathematical problems.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
4	П	C4	Data Structures	CO1	Identify data structures suitable to solveproblems	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3
				CO2	Developingalgorithms	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO3	Identifying the use of Time and SpaceComplexity.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO4	Implementing different sorting & searching techniques.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
5		C5	Object Oriented Analysis and	CO1	Have Knowledge in evolution and foundations of OO Model and itselements	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			Design	CO2	Identify relationship between classes andobjects	PO1, PO2, PO3,	PSO1, PSO2,



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						PO4, PO5, PO6,	PSO3.
						PO7.	
				CO3	Know importance of classification and can identify classes and objects	PO1, PO2, PO3,	PSO1, PSO2,
					·	PO4, PO6,PO7.	PSO3.
				CO4	Have basic knowledge of UML.	PO1, PO2, PO3,	PSO1, PSO2,
						PO4, PO6,PO7.	PSO3
						PO1, PO2, PO3,	PSO1, PSO2,
				CO5	Knowledge in syntax and semantics of UML.	PO4, PO5, PO6,	PSO3, PSO4.
						PO7.	
		_				PO1, PO2, PO3,	PSO1, PSO2,
				CO1	Gain knowledge of Database, DBMS and SQL	PO4, PO6,PO7.	PSO3.
						201 202 202	7001 7004
				GOA	Learn SQL as best analysis tool for extract data in different ways	PO1, PO2, PO3,	PSO1, PSO2,
				CO2		PO4, PO5, PO6,	PSO3.
		0.6	Data Base		Create a small database using COI	PO7.	PSO1, PSO2,
6		C6	Management	CO3	Create a small database using SQL.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			System		All a god i go Dai la i la l		
				CO4	Able to construct SQL queries to Store, Retrieve data in database	PO1, PO2, PO3,	PSO1, PSO2,
						PO4, PO6, PO7.	PSO3.
				G05	Model database using ER Diagrams and design database schemas	PO1, PO2, PO3,	PSO1, PSO2,
				CO5	based on the model	PO4, PO5, PO6,	PSO3.
						PO7.	DCO1 DCO1
				CO1	Company Setup &Configurations.	PO1, PO2, PO3, PO4, PO5, PO6,	PSO1, PSO2, PSO3.
	7   <b>III</b>		Accounting and	COI		PO7.	PSO5.
7		C7	Accounting and Financial			PO1, PO2, PO3,	PSO1, PSO2,
'		C1	Management	CO2	Recording FinancialTransactions	PO4, PO6,PO7.	PSO3.
	111		- Indiagonion		Financial Reports	PO1, PO2, PO3,	PSO1, PSO2,
				CO3	I munoral reports	PO4, PO6, PO7.	PSO3.
8		C8	Object Oriented	CO1	Understand the concept and underlying principles of Object-Oriented	PO1, PO2, PO3,	PSO1, PSO2,



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			Programming through Java		Programming	PO4, PO5, PO6, PO7.	PSO3.
				CO2	Understand how object-oriented concepts are incorporated into the Java programming language	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO3	Develop problem-solving and programming skills using OOP concept	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Understand the benefits of a well structured program	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO5	Develop the ability to solve real-world problems through software development in high-level programming language like Java	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO6	Develop efficient Java applets and applications using OOP concept	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO1	Understand the main components and Structure of Operating System& theirfunctions	PO1, PO2, PO3, PO4,PO6,PO7.	PSO1, PSO2, PSO3.
				CO2	Analyze various ways of Process Management & CPU SchedulingAlgorithms	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
9		C9	Operating Systems	CO3	Evaluate various device and resources like Memory, Time and CPU Management techniques in distributed systems.	PO1, PO2, PO3, PO4, PO7.	PSO1, PSO2, PSO3.
				CO4	Apply different methods for Preventing Deadlocks in a ComputerSystem.	PO1, PO2, PO3, PO7.	PSO1, PSO2, PSO3.
10	IV	C10	Cyber Laws	CO1	Critically evaluate ongoing developments in law relating to information technologies.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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				CO2	Display an understanding of how these developments relate to oneanother.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO3	Examine areas of doctrinal and political debate surrounding rules andtheories;	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Evaluate those rules and theories in terms of internal coherence and practicaloutcomes	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Draw on the analysis and evaluation contained in primary and secondarysources.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Examine the types of the data to be mined and present a general classification of tasks and primitives to integrate a data miningsystem.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO2	Apply preprocessing statistical methods for any given rawdata	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
11		C11	Data Mining and Data Ware	CO3	Discover interesting patterns from large amounts of data to analyze and extract patterns to solve problems, make predictions ofoutcomes	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			Housing	CO4	Comprehend the roles that data mining plays in various fields and manipulate different data mining techniques	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Select and apply proper data mining algorithms to build analytical applications	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
12				CO6	Evaluate and implement a wide range of emerging and newly-adopted methodologies and technologies to facilitate the knowledgediscovery.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
		C12	Web Programming	CO1	To understand the web architecture and web services.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.



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				CO2	To practice latest web technologies and tools by conducting experiments	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO3	To design interactive web pages using HTML and Style sheets.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	To study the framework and building blocks of Integrated Development Environment	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	To provide solutions by identifying and formulating IT related problems.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO1	Have Knowledge in micro and macroprocess	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
		C13		CO2	Have Knowledge in management planning, quality assurance and metrics along with documentation of object orienteddevelopment	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
13			Design of Object Oriented Applications	CO3	Have Knowledge in systemarchitecture.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Basic knowledge in AI and DataAcquisition	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Knowledge in applications of Object OrientedDesign	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			Data Amalati	CO1	Data-Visualization tools and techniques offer executives and other knowledge workers new approaches	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
14	14	C14	Data Analytics Using R	CO2	Data visualization is a general term that describes any effort to help people understand the significance of data by placing it in a visual context.		PSO1, PSO2, PSO3.



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				СОЗ	Patterns, trends and correlations that might go undetected in text- based data can be exposed and recognized easier with data visualizationsoftware	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	It isn't just the attraction of the huge range of statistical analyses afforded by R that attracts data people to R. The language has also developed a rich ecosystem of charts, plots and visualizations over theyears	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO1	Explore the basic concepts of softwareengineering	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			C15 Object Oriented Software Engineering	CO2	Choose appropriate life cycle model for aproject	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
15		C15		CO3	Implement the phases of the traditional software development process	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Design various test cases for a softwareproduct	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Analyze different architectural views	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO1	Identify the characteristics of machine learning	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			Machine	CO2	Summarize the Model building and evaluation approaches	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
16		SEC1	Learning Using Python	CO3	Apply Bayesian learning and regression algorithms for real-world Problems.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Apply supervised learning algorithms to solve the real-world Problems	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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				CO5	Apply unsupervised learning algorithms for the real world data	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Gain knowledge about Types of Graphics, Types of Objects, Types of video editing tools	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO2	Show their skills in editing and altering photographs for through a basic understanding of the tool box.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
17		SEC2	Digital Imaging	CO3	. Gain knowledge in using the layers	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Gain knowledge in using the selection tools, repair tools	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Gain knowledge in using selection tools, applying filters and can show their skills	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	Understand the computer networks, networking tools and cyber security	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO2	Learn about NIST Cyber Security Framework	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
18		SEC3	Cyber Security And Malware Analysis	CO3	Understand the OWASP Vulnerabilities	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Implement various Malware analysis tools	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Understand about Information Technology act 2000	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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				CO1	Able to understand various applications of IOT in real world and industry domain.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
19		SEC4	INTERNET OF	CO2	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			THINGS	CO3	Able to understand building blocks of Internet of Things and characteristics.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO4	Able to design and develop IOT devices	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			COMOBILE APPLICATION	CO1	Identify basic terms ,tools and software related to android systems	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
		SEC5		CO2	Describe components of IDE, understand features of android development tools	PO1, PO2, PO3, PO4, PO5, PO6,	PSO1, PSO2, PSO3.
				CO3	Describe the layouts and controls	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
20				CO4	Explain the significance of displays using the given view	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO5	Explain the features of services and able to publish android Application	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO6	Developing interesting Android applications using MIT App Inventor	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
21	S	SEC6	PC HARDWARE AND	CO1	Identify the computer peripherals, software and hardware devices	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.



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		NETWORKING	CO2	Describe the basics of networks and networking tools	PO1, PO2, PO3,	PSO1, PSO2,
					PO4, PO6, PO7.	PSO3.
			CO3	Describe the Network Addressing and sub-netting	PO1, PO2, PO3,	PSO1, PSO2,
				2 totale till i total i additioning and out invining	PO4, PO6, PO7.	PSO3.
			CO4	Explains the Networks protocols and management	PO1, PO2, PO3,	PSO1, PSO2,
			CO4	Explains the Networks protocols and management	PO4, PO6, PO7.	PSO3.
			CO5	Identifies Basic Network administrator roles	PO1, PO2, PO3,	PSO1, PSO2,
			COS		PO4, PO5, PO6	PSO3.
				Gain knowledge about Types of Graphics, Types of Objects, Types of	PO1, PO2, PO3,	PSO1, PSO2,
			CO1	video editing tools	PO4, PO6, PO7	PSO3.
		GEMEGTED.		Gain knowledge in using selection tools, applying filters and can	PO1, PO2, PO3,	PSO1, PSO2,
22	VI	SEMESTER	CO2	show their skills	PO4, PO6, PO7	PSO3.
		INTERNSHIP	CO2	SHOW THEIR SKILLS	104,100,107	1505.
				Show their skills in editing and altering photographs for through a	PO1, PO2, PO3,	PSO1, PSO2,
			CO3	basic understanding of the tool box.	PO4. PO6. PO7	PSO3.
		1	l	Dasic understanding of the tool box.	. PO4. PO0. PO/	P3O3.

# STANGONIESE BUMBER

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# **BCA - PRACTICALS**

Sl. No	Sem ester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)																						
			Computer	CO1	Compose, format and edit a word document and working with macros																								
1	C1-P Fundamentals and Office Tools-LAB	Fundamentals and Office	CO2	Compose, format and edit a word document and working with macros																									
		Tools-LAB	CO3	Make presentations and inserting multimedia in them																									
			Programming in C-LAB	CO1	Write, compile and debug programs in C language.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.																						
	I	C2 D		CO2	Use different data types in a computer program	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.																						
2		C2-P		CO3	Design programs involving decision structures, loops and functions	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.																						
																											CO4	Understand the dynamics of memory by the use of pointers and Structures.	PO1, PO2, PO3, PO4, PO6,PO7.
				CO5	Apply different operations in File handling.	PO1, PO2, PO3, PO4, PO6,PO7	PSO1, PSO2, PSO3.																						
3		СЗ-Р	Numerical and Statistical	CO1	Skill to choose and apply appropriate numerical methods to obtain appropriate solutions to difficult mathematical problems.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																						



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			Methods-LAB	CO2	Ability to apply various statistical techniques such as Measures of Central Tendency and Dispersion	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO3	Skill to execute programs of various Numerical Methods and Statistical techniques for solving mathematical problems.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				CO1	understand a systematic approach to organizing, writing and debugging C programs		PSO1, PSO2, PSO3
		D . G	CO2	Ability to implement linear and non-linear data structure operations using C programs		PSO1, PSO2, PSO3.	
4		C4-P	C4-P Data Structures LAB	СОЗ	Ability to solve problems implementing appropriate data structure		PSO1, PSO2, PSO3.
				CO4	Ability to implement sorting and searching algorithms using relevant data structures		PSO1, PSO2, PSO3.
		С5-Р	Object Oriented Analysis and Design	CO1	Model the Use case and Class diagrams for the given application.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
5	II			CO2	Develop the sequence and collaboration diagrams for the given application.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			LAB	CO3	Build Activity diagram and State Chart diagrams for the given application	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
				CO1	Create a small database using SQL.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
6		C6-P Mana Sy	Data Base Management	CO2	Able to construct SQL queries to Store, Retrieve data in database	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
			System LAB	CO3	Model database using ER Diagrams and design database schemas based on the model	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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			Accounting and	CO1	Company Setup & Configurations.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																	
7		C7-P	Financial Management-	CO2	Recording Financial Transactions	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.																	
			LAB	СОЗ	Financial Reports	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.																	
				CO1	Develop problem-solving and programming skills using OOP concept	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																	
			Object Oriented Programming	CO2	Understand the benefits of a well structured program	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.																	
8	III	C8-P	through Java LAB	СОЗ	Develop the ability to solve real-world problems through software development in high-level programming language like Java	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.																	
				CO4	Develop efficient Java applets and applications using OOP concept	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.																	
			Operating Systems LAB	CO1	Experiment with Unix commands and shell programming																			
9		C9-P		CO2	Build 'C' program for process and file system management using system calls																			
9		C9-P		1 0	1 0	1 0	1 0	1 0	1 –		1 -	1 –	1 0	1 0	1 0	1 0	Systems LAB	Systems LAB	Systems LAB	Systems LAB	CO3	Choose the best CPU scheduling algorithm for a given problem instance		
												CO4	Develop algorithm for deadlock avoidance, detection and file allocation strategies											
				CO1	Extensive knowledge regarding jurisdictional issues in IT Act																			
10	IV	C10-P	Cyber Laws- LAB	CO2	Various important national and international cyber laws.																			
			_	СОЗ	Understands the scope of Cyber Law																			



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			CO4	The students is able to understand the basic concept of International Technology		
			CO1	How to select data and technique for the mining		
	C11-P	Data Mining and Data Ware	CO2	How to use Algorithms for data mining		
	CII-F	Housing-LAB	CO3	How to analyze data		
			CO4	How to compare techniques based on result		
11		Web Programming- LAB	CO1	To practice latest web technologies and tools by conducting experiments	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
	C12 P		CO2	To design interactive web pages using HTML and Style sheets.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
	C12-P		CO3	To study the framework and building blocks of Integrated Development Environment	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO4	To provide solutions by identifying and formulating IT related problems.	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
13	C13-P	Design of Object Oriented	CO1	Construct various UML models (including use case diagrams, class diagrams, interaction diagrams, statechart diagrams, activity diagrams, and implementation diagrams) using the appropriate notation.		
13	C13-F	Applications- LAB	CO2	Recognize the difference between various object relationships: inheritance, association, whole-part, and dependency relationships.		
			CO3	Show the role and function of each UML model in developing object oriented software.		



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			CO1	Data-Visualization tools and techniques offer executives and other knowledge workers new approaches	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			CO2	Data visualization is a general term that describes any effort to help people understand the significance of data by placing it in a visual context.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
14	C14-P	Data Analytics Using R-LAB	CO3	Patterns, trends and correlations that might go undetected in text- based data can be exposed and recognized easier with data visualization software	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO4	It isn't just the attraction of the huge range of statistical analyses afforded by R that attracts data people to R. The language has also developed a rich ecosystem of charts, plots and visualizations over the years	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			CO1	Explore the basic concepts of software engineering	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			CO2	Choose appropriate life cycle model for a project	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
15	C15-P	Object Oriented Software Engineering-	CO3	Implement the phases of the traditional software development process	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
		LAB	CO4	Design various test cases for a software product	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO5	Analyze different architectural views	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
1.6	GEG 15	Machine	CO1	Identify the characteristics of machine learning	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
16	SEC-1P	Learning Using Python-LAB	CO2	Summarize the Model building and evaluation approaches	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.



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			CO3	Apply Bayesian learning and regression algorithms for real-world Problems.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO4	Apply supervised learning algorithms to solve the real-world Problems	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO5	Apply unsupervised learning algorithms for the real world data	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO1	Gain knowledge about Types of Graphics, Types of Objects, Types of video editing tools	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
			CO2	Show their skills in editing and altering photographs for through a basic understanding of the tool box.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
17	SEC-2P	Digital Imaging- LAB	CO3	. Gain knowledge in using the layers	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
			CO4	Gain knowledge in using the selection tools, repair tools	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
			CO5	Gain knowledge in using selection tools, applying filters and can show their skills	PO1, PO2, PO3, PO4, PO6, PO7.	PSO1, PSO2, PSO3.
			CO1	Understand the computer networks, networking tools and cyber security	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
18	SEC-3P	Cyber Security And Malware Analysis-LAB	CO2	Learn about NIST Cyber Security Framework	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO3	Understand the OWASP Vulnerabilities	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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			CO4	Implement various Malware analysis tools	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO5	Understand about Information Technology act 2000	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO1	Able to understand various applications of IOT in real world and industry domain.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
19	SEC-4P	INTERNET OF	CO2	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
		THINGS-LAB	CO3	Able to understand building blocks of Internet of Things and characteristics.	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
				Able to design and develop IOT devices	PO1, PO2, PO3, PO4, PO6,PO7.	PSO1, PSO2, PSO3.
			CO1	Identify basic terms ,tools and software related to android systems	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO2	Describe components of IDE, understand features of android development tools	PO1, PO2, PO3, PO4, PO5, PO6,	PSO1, PSO2, PSO3.
20	SEC-5P	MOBILE APPLICATION DEVELOPMENT-		Describe the layouts and controls	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
		LAB		Explain the significance of displays using the given view	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.
			CO5	Explain the features of services and able to publish android Application	PO1, PO2, PO3, PO4, PO5, PO6, PO7.	PSO1, PSO2, PSO3.



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					PO1, PO2, PO3,	PSO1, PSO2,			
			CO6	Developing interesting Android applications using MIT App Inventor	PO4, PO5, PO6,	PSO3.			
					PO7.				
			CO1	Identify the computer peripherals, software and hardware devices	PO1, PO2, PO3,	PSO1, PSO2,			
			COI	identify the computer peripherals, software and nardware devices	PO4, PO6, PO7.	PSO3.			
			CO2	Describe the begins of networks and networking tools	PO1, PO2, PO3,	PSO1, PSO2,			
		PC HARDWARE	CO2	Describe the basics of networks and networking tools	PO4, PO6, PO7.	PSO3.			
21	SEC-6P	AND	CO2	Describe the Network Addressing and sub-netting	PO1, PO2, PO3,	PSO1, PSO2,			
21	SEC-OP	NETWORKING-			NETWORKING-	CO3	Describe the Network Addressing and sub-netting	PO4, PO6, PO7.	PSO3.
		LAB	CO4	Explains the Networks protectle and management	PO1, PO2, PO3,	PSO1, PSO2,			
				Explains the Networks protocols and management	PO4, PO6, PO7.	PSO3.			
				Identifies Basic Network administrator roles	PO1, PO2, PO3,	PSO1, PSO2,			
		CO	CO5		PO4, PO5, PO6	PSO3.			



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# I YEAR – BCA – I SEMESTER – COURCE– C1 - THEORY

				MAPPING(COs & PSOs)						
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	3	3	3	2	3
CO2	3	3	2	3	1	2	3	2	3	3
CO3	3	3	2	3		2	3	3	2	3
CO4	3	3	2	3		2	3	3	2	3



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CO5	3	3	3	3		2	3	3	2	2
Average	3	3	2.4	3	1.5	2.2	3	2.8	2	2.8

# OVER ALL AVERAGE BETWEEN COS & POS = 2.58 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.53 I YEAR – BCA – I SEMESTER – COURCE– C2 – THEORY

				MAPPING(COs & PSOs)						
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		2	3	3	3	3
CO2	3	3	3	3		2	3	3	3	3
CO3	3	3	3	3		2	3	3	3	3
CO4	3	3	3	3		2	3	3	3	3
CO5	3	3	3	3		2	3	3	3	3



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CO6	3	3	3	3	 2	3	3	3	3
Average	3	3	3	3	 2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.83

OVER ALL AVERAGE BETWEEN COS & PSOS = 3

#### I YEAR - BCA - I SEMESTER - COURCE- C3 - THEORY

				MAI	COs &					
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	3	3	2	3
CO2	3	3	2	2	2	3	3	3	2	3
CO3	3	3	2	2	2	3	3	3	2	3
Average	3	3	2	2	2	3	3	3	2	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.57

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66



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# I YEAR – BCA – II SEMESTER – COURCE– C4 - THEORY

				MAPPING(COs & PSOs)						
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social  Responsibilities,  Ethical and  Environmental  Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		3	3	3	3	3
CO2	3	3	3	3	1	3	3	3	3	3
CO3	3	3	3	3		3	3	3	3	3
CO4	3	3	3	3		3	3	3	3	3



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Average	3	3	3	3	1	3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.71

OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# I YEAR – BCA – II SEMESTER – COURCE– C5 - THEORY

			MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)		
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		3	3	3	3	3
CO2	3	3	3	3		3	3	2	2	3
CO3	3	3	2	3		2	3	2	3	3
CO4	3	3	3	3		3	3	2	2	3



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CO5	3	3	3	3	1	3	3	3	3	3
Average	3	3	2.8	3	1	2.8	3	2.4	2.6	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.65 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.66

# I YEAR – BCA – II SEMESTER – COURCE– C6 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(C PSOs)	COs &
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	2	3	3		3	3	3	3	3
CO2	3	2	3	3	1	3	3	3	3	3
CO3	3	3	3	3		3	3	3	3	3
CO4	3	3	3	3		3	3	3	3	3



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CO5	3	3	3	3	1	2	3	3	3	3
Average	3	2.6	3	3	1	2.8	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.62

OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# II YEAR – BCA – III SEMESTER – COURCE– C7 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(C PSOs)	
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	3	3	3	3	3
CO2	3	3	3	3		3	3	3	2	3
CO3	3	3	3	3		3	3	3	1	3



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Average	3	3	3	3	2	3	3	3	2	3	
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#### OVER ALL AVERAGE BETWEEN COS & POS = 2.85 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

# II YEAR – BCA – III SEMESTER – COURCE– C8 - THEORY

			MAI	PPING(COs &	& POs)			MAI	MAPPING(COs & PSOs)  PSO1 PSO2 PSO  3 3 3 3 3 3 3		
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
CO1	3	3	3	3	1	2	3	3	3	3	
CO2	3	3	2	3		3	3	3	3	3	
CO3	3	3	3	3	2	3	3	3	3	3	
CO4	3	3	3	3		3	3	3	3	3	



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CO5	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3		3	3	3	3	3
Average	3	3	2.8	3	2	2.8	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.80VER ALL AVERAGE BETWEEN COS & PSOS = 3

# II YEAR – BCA – III SEMESTER – COURCE– C9 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(C PSOs)	
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	2	3		2	3	3	3	1
CO2	3	3	3	2			3	3	3	2
CO3	3	3	3	2			3	3	3	2



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CO4	3	3	3		 1	3	3	3	1
Average	3	3	2.75	2.3	 2	3	3	3	1.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.67OVER ALL AVERAGE BETWEEN COS & PSOS = 2.5

# II YEAR – BCA – IV SEMESTER – COURCE– C10 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(C PSOs)	
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5  Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	2	3	2	2	2
CO2	3	3	3	3	3	2	3	2	2	2
CO3	3	3	3	3	3	2	3	2	2	2



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CO4	3	3	2	3	3	2	3	2	2	2
CO5	3	3	2	3	3	2	3	2	2	2
Average	3	3	2.6	3	3	2	3	2	2	2

#### OVER ALL AVERAGE BETWEEN COS & POS = 2.8 OVER ALL AVERAGE BETWEEN COS & PSOS = 2

# II YEAR – BCA – IV SEMESTER – COURCE– C11 - THEORY

			MAI	PPING(COs &	& POs)			MAF	PPING(C PSOs)	COs &
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	1	2	3	3	2	3
CO2	3	3	3	3		2	3	3	3	3
CO3	3	3	3	3		3	3	3	3	3



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CO4	3	3	3	3	1	2	3	3	3	3
CO5	3	3	3	3		3	3	3	3	3
CO6	3	3	3	3		3	3	3	3	3
Average	3	3	3	3	1	2.5	3	3	2.8	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.64

OVER ALL AVERAGE BETWEEN COS & PSOS =2.93

# II YEAR – BCA – IV SEMESTER – COURCE– C12 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(O PSOs)	
	PO1  Essential  Domain  Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3	Competency	1	2	3	2	3
CO2	3	3	3	3		3	3	3	3	3



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CO3	3	3	3	3	1	2	3	3	3	3
CO4	3	3	3	3	1	2	3	3	3	3
CO5	3	3	3	3		3	3	3	3	3
Average	3	3	3	3	1	2.2	2.8	3	2.8	3

OVER ALL AVERAGE BETWEEN COS & POS =2.57 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.93

# II YEAR – BCA – IV SEMESTER – COURCE– C13 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(C PSOs)	
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
CO1	3	3	3	3		2	3	3	3	3
CO2	3	3	3	3	2	2	3	3	3	3



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CO3	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	3	2	3	3	3	3
CO5	3	3	3	3	2	2	3	3	3	3
Average	3	3	3	3	2.5	2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.78 OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# II YEAR - BCA - IV SEMESTER - COURCE- C14 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(C PSOs)	
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3
					Competency					<u> </u>
CO1	3	3	3	3		2	3	3	3	3



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CO2	3	3	3	3	1	2	3	3	3	3
CO3	3	3	3	3	1	2	3	3	3	3
CO4	3	3	3	3		2	3	3	3	3
Average	3	3	3	3	1	2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.57 OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# II YEAR - BCA - IV SEMESTER - COURCE- C15 - THEORY

			MAI	PPING(COs &	& POs)			MAF	PPING(O PSOs)	
	PO1 Essential Domain	PO2  Creative and critical thinking	PO3 Communicat ion Skills	PO4 Digital Capabilities	PO5 Social Responsibilities,	PO6 Employability and Research	PO7 Life-Long Learning	PSO1	PSO2	PSO3
	Knowledge	and problem solving abilities	and Team Work		Ethical and Environmental Competency	related Skills				
CO1	3	3	3	3		3	3	3	3	3



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CO2	3	3	3	3		2	3	3	3	3
CO3	3	3	2	3	1	2	3	3	3	3
CO4	3	3	2	3	1	2	3	3	3	3
CO5	3	3	3	3		2	3	3	3	3
Average	3	3	2.6	3	1	2.2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.54 OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# III YEAR – BCA – V SEMESTER – COURCE– SEC1 - THEORY

			MAI		MAI	PPING(O PSOs)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
	Essential Domain Knowledge	Creative and critical thinking and problem solving abilities	Communicat ion Skills and Team Work	Digital Capabilities	Social Responsibilities, Ethical and Environmental Competency	Employability and Research related Skills	Life-Long Learning			
CO1	3	3	2	3		2	3	3	3	3



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CO2	3	3	3	3		2	3	3	3	3
CO3	3	3	3	3	2	2	3	3	3	3
CO4	3	3	3	3	2	2	3	3	3	3
CO5	3	3	3	3	2	2	3	3	3	3
Average	3	3	3	3	2	2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.71

OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# III YEAR – BCA – V SEMESTER – COURCE– SEC2 - THEORY

			MAI	PPING(COs &	& POs)			MAI	PPING(O PSOs)	
	PO1 Essential	PO2 Creative and	PO3 Communicat	PO4  Digital	PO5 Social	PO6 Employability	PO7 Life-Long	PSO1	PSO2	PSO3
	Domain Knowledge	critical thinking	ion Skills and Team Work	Capabilities	Responsibilities, Ethical and Environmental Competency	and Research related Skills	Learning			
CO1	3	3	2	3		2	3	3	3	3



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CO2	3	3	3	3	2	2	3	3	3	3
CO3	3	3	2	3		2	3	3	3	3
CO4	3	3	2	3		2	3	3	3	3
CO5	3	3	2	3		2	3	3	3	3
Average	3	3	2.2	3	2	2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS =2.6

OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# III YEAR - BCA - V SEMESTER - COURCE- SEC3 - THEORY

		MAI	PPING(COs &	& POs)			MAI	MAPPING(CO PSOs)			
PO1 Essential Domain	PO2  Creative and critical thinking	PO3 Communicat ion Skills	PO4 Digital Capabilities	PO5 Social Responsibilities,	PO6 Employability and Research	PO7 Life-Long Learning	PSO1	PSO2	PSO3		
Knowledge	and problem solving abilities	and Team Work	_	Ethical and Environmental Competency	related Skills	J					



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CO1	3	3	3	3	2	3	3	3	3	3
CO2	3	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	2	3	3	2	3	3
CO4	3	3	3	3	2	3	3	3	3	3
CO5	3	3	3	3	3	3	3	2	3	3
Average	3	3	3	3	2.4	3	3	2.4	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.9 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.8

# III YEAR – BCA – V SEMESTER – COURCE– SEC4 - THEORY

MAPPING(COs & POs)							MAI	PPING(O PSOs)	
PO1	PO2	PO3	PO4	PO5 Social	PO6	PO7	PSO1	PSO2	PSO3
Essential Domain Knowledge	Creative and critical thinking and problem solving abilities	Communicat ion Skills and Team Work	Digital Capabilities	Responsibilities, Ethical and Environmental Competency	Employability and Research related Skills	Life-Long Learning			



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CO1	3	3	3	3	1	1	3	3	3	3
CO2	3	3	3	3	2	1	3	3	3	3
CO3	3	3	3	3	1	2	3	3	3	3
CO4	3	3	3	3		1	3	3	3	3
Average	3	3	3	3	1	1.25	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.46 OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# III YEAR – BCA – V SEMESTER – COURCE– SEC5 - THEORY

	MAPPING(COs & POs)								MAPPING(COs & PSOs)		
	PO1 Essential Domain Knowledge	PO2  Creative and critical thinking and problem solving abilities	PO3  Communicat ion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental	PO6 Employability and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	
					Competency						
CO1	3	3	3	3	2	2	3	3	3	3	



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CO2	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	3	2	2	3	3	3	3
CO4	3	3	3	3	2	2	3	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3
CO6	3	3	3	3	2	2	3	3	3	3
Average	3	3	3	3	2.3	2	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.75 OVER ALL AVERAGE BETWEEN COS & PSOS = 3

# III YEAR – BCA – V SEMESTER – COURCE– SEC6 - THEORY

		MAI	PPING(COs &	& POs)			MAPPING(COs & PSOs)			
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
Essential Domain Knowledge	Creative and critical thinking and problem solving abilities	Communicat ion Skills and Team Work	Digital Capabilities	Social Responsibilities, Ethical and Environmental Competency	Employability and Research related Skills	Life-Long Learning				



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CO1	3	3	3	3		2	3	3	2	3
CO2	3	3	3	3		2	3	3	2	3
CO3	3	3	3	3		2	3	3	2	3
CO4	3	3	3	3		3	3	3	2	3
CO5	3	3	3	3	2	3	3	3	2	3
Average	3	3	3	3	2	2.4	3	3	2	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.77 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

## III YEAR – BCA – V SEMESTER – COURSE– SEMESTER INTERNSHIP

			MAPPING(COs & PSOs)						
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
Essential Domain Knowledge	Creative and critical thinking and problem	Communicat ion Skills and	Digital Capabilities	Social Responsibilities, Ethical and	Employability and Research related Skills	Life-Long Learning	1301	F3O2	1303



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		solving abilities	Team Work		Environmental Competency					
CO1	3	3	3	3		2	3	3	2	3
CO2	3	3	3	3		2	3	3	2	3
CO3	3	3	3	3		2	3	3	2	3
Average	3	3	3	3	2	2.4	3	3	2	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.77 OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6

## III YEAR - BCA- THEORY

			MA	PPING (COs	s & POs)				MAPPING (COs & PSOs)		
Cource Code	PO1 Essential Domain Knowled ge	PO2 Creative and critical thinking and problem solving abilities	PO3 Communica tion Skills and Team Work	PO4 Digital Capabilities	PO5 Social Responsibilities, Ethical and Environmental Competency	PO6 Employabilit y and Research related Skills	PO7 Life-Long Learning	PSO1	PSO2	PSO3	



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<b>C1</b>	3	3	2.4	3	1.5	2.5	3	2.8	2	2.8
C2	3	3	3	3		2	3	3	3	3
C3	3	3	2	2	2	3	3	3	2	3
C4	3	3	3	1	3	3	3	3	3	3
C5	3	3	2.8	3	1	2.8	3	2.4	2.6	3
C6	3	2.6	3	3	1	2.8	3	3	3	3
C7	3	3	3	3	2	3	3	3	2	3
C8	2	3	2.8	3	2	2.8	3	3	3	3
С9	3	3	2.75	2.3		2	3	3	3	1.5
C10	3	3	2.6	3	3	2	3	2	2	2
C11	3	3	3	3	1	2.5	3	3	2.8	3
C12	3	3	3	3	1	2.2	2.8	3	2.8	3
C13	3	3	3	3	2.5	2	3	3	3	3



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C14	3	3	3	3	1	2	3	3	3	3
C15	3	3	2.6	3	1	2.2	3	3	3	3
SEC1	3	3	3	3	2	2	3	3	3	3
SEC2	3	3	2.2	3	2	2	3	3	3	3
SEC3	3	3	3	3	2.4	3	3	2.4	3	3
SEC4	3	3	3	3	1	1.25	3	3	3	3
SEC5	3	3	3	3	2.3	2	3	3	3	3
SEC6	3	3	3	3	2	2.4	3	3	2	3
Internship	3	3	3	3	2	2.4	3	3	2	3
Average	2.9	2.98	2.82	2.83	1.6	2.35	2.99	2.89	2.69	2.87



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# **DEPARTMENT OF MCA**

Sl. No	Semester	Cours e Code	Course Title		CourseOutcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	Illustrate the implementation of linked lists and Recursion	PO1,PO2,PO3,P O4,PO5,PO7,P O9,PO10,PO11, PO12	PSO1,PSO2,P SO3
1	I	MCA	MCA-101 DataStructure	CO2	Analyse search algorithms and hashing technique	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO9,PO10,P O11,PO12	PSO1,PSO2,P SO3
			swithC++	CO3	Apply Stacks and Queues for real world tasks	PO1,PO2,PO3,P O4,PO5,PO7,P O8,PO10,PO11, PO12	PSO1,PSO2,P SO3
				CO4	Make use of trees and Graphs in solving Complex problems	PO1,PO2,PO3,P O4,PO5,PO7,P O10,PO11,PO12	PSO1,PSO2,P SO3
2	I	MCA	MCA - 102Database Management	CO1	Explain about database, different operations, queries performed for management system problems  Demonstrate the significance of ER-diagram in DBMS	PO1,PO2,PO3,P O8,PO10,PO12 PO1,PO3,PO6,P	PSO1,PSO3 PSO2,PSO3



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			Systems			O8,PO9,PO10,P O11,PO12															
				CO3	Make use of different normalizations for database size reduction and removal of redundancy	PO1,PO3,PO5,P O9,PO10,PO11	PSO1,PSO2,P SO3														
				CO4	Apply PL/SQL, SQL injection, procedures etc	PO1,PO2,PO3,P O6,PO10	PSO1,PSO3														
			MCA-	CO1	Show confidence in manipulating and drawing conclusions from data and provide them with a critical frame work for evaluating study designs and results	PO1,PO2,PO3	_														
3	Ι	MCA	103Probabilit yandStatistics	CO2	Explain the basic notions of probability laws and develop them to the stage where one can begin to use	PO1,PO2,PO3	_														
			MCA-104 OperatingSys	CO3	Explain the basic notions of probability laws and develop them to the stage where one can begin to use	PO1,PO2,PO3	_														
				CO4	Summarize the study of stochastic processes	PO1,PO2,PO3	_														
				OperatingSys	CO1	Explain what is an operating system and the role it plays	PO1,PO2,PO3,P O4,PO10	PSO1,PSO3													
		Mark			OperatingSys	OperatingSys	OperatingSys	OperatingSys	CO2	Infer high level understanding of the structure of operating systems, applications, and the relationship between t hem	PO1,PO2,PO3,P O4,PO7,PO10,P O12	PSO1,PSO3									
4	I	MCA													1 2 2 1				1		
				CO4	Compare the exposure to some details majors concepts.	PO1,PO2,PO3,P O4,PO8,PO10,P O12	PSO1,PSO3														
5	I	MCA	MCA-105 ComputerOrg	CO1	Explain the key concepts that are likely to be included in the design of any modern computer system	PO1,PO2,PO3,P O4,PO5,PO7,P O8,PO10,PO11, PO12	PSO1,PSO2,P SO3														
			anization	CO2	Make use of the basic metrics by which new and existing computer systems may be evaluated	PO1,PO2,PO3,P O4,PO5,PO6,P	PSO1,PSO2,P SO3														



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						O8,PO9,PO11,P O12	
				CO3	Outline the impact that languages, their compilers and underlying operating systems have on the design of computer systems	PO1,PO2,PO3,P O4,PO6,PO9,P O10	PSO1,PSO2,P SO3
				CO4	How to evaluate the impact that peripherals, their inter connection and underlying data operations have on the design of computer systems	PO1,PO2,PO3,P O4,PO7	PSO1,PSO2
			MCA-106	CO1	Understand the concept of array storage and examine the concept of row-major and column-major order.	PO1,PO3,PO4,P O12	PSO1,PSO3
			Data Structures	CO2	List and illustrate the implementation of basic data structure using an array.	PO1,PO2,PO3,P O4,PO12	PSO1,PSO3
6	I	MCA	Lab	CO3	Compare various searching techniques using arrays.	PO1,PO2,PO3,P O4,PO12	PSO1,PSO3
				CO4	Use linear and non-linear data structures like stacks, queues, linked list, tree, etc.	PO1,PO2,PO3,P O4,PO12	PSO1,PSO3
				CO5	Design and formulate different sorting algorithms	PO1,PO2,PO3,P O4,PO12	PSO1,PSO3
			MCA-107 Database Management	CO1	Get practical knowledge on designing and creating relational database systems	PO1,PO2,PO3,P O4,PO6,PO8,P O9,PO10,PO11, PO12	PSO1,PSO2,P SO3
	_		Systems Lab	CO2	Implement basic SQL DDL Queries	PO1,PO2,PO3,P O9,PO10,	PSO1,PSO2,P SO3
7	I			CO3	Implement basic SQL DML Queries	PO1,PO2,PO3,P O9,PO10,	PSO1,PSO2,P SO3
				CO4	Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, view and embedded SQL.	PO1,PO2,PO3,P O4,PO5,PO6,P O9,PO10,PO11, PO12	PSO1,PSO2,P SO3



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				CO5	To design and implement database applications on their own.	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO5,PO6,P	SO3
						O8,PO9,PO10,P	
				G 0.4		O11,PO12	201200
				CO1	Describe software engineering layered technology and process	PO1,PO2,PO3,P	PSO1,PSO3
					framework	O4,PO5,PO6,P	
				~~		O8,PO9,PO10	70017000
			MCA-	CO2	Evaluate the different process models and choose the best model for	PO1,PO2,PO3,P	PSO1,PSO3
			201Software		their project	O4,PO5,PO7,P	
			Engineering			O10,PO12	
8	II	MCA		CO3	Understand the different development practices and its advantages	PO1,PO4,PO5,P	PSO1,PSO3
						O10,PO12	
				CO4	Explain software testing approaches, software tactics and metrics for	PO1,PO2,PO3,P	PSO1,PSO3
					process and project domains	O4,PO7,PO8,P	
						O10,PO12	
				CO5	Analyze estimation techniques, quality management and formal		
					methods		
				CO1	Demonstrate understanding of modern version control tools.	PO1,PO2,PO3,P	PSO1,PSO2,P
			MCA-			O4,PO5,PO6,P	SO3
			202Program			O7,PO8,PO9,P	
			mingandPr			O10,PO11,PO12	
			oblemSolvi	CO2	Exhibit facility with a Linux command line environment.	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO5,PO6,P	SO3
	II	MCA	ngUsingPyt			O7,PO8,PO9,P	
9	11	MCA	hon			O10,PO11,PO12	
				CO3	Demonstrate understanding of the role of testing in scientific	PO1,PO2,PO3,P	PSO1,PSO2,P
					computing, and Write unit tests in Python.	O4,PO5,PO6,P	SO3
						O7,PO8,PO9,P	
						O10,PO11,PO12	
				CO4	Use command line tools to write and edit code.	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO5,PO6,P	SO3



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						O7,PO8,PO9,P	
						O10,PO11,PO12	
				CO5	Develop publication-ready graphics from a dataset.	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO5,PO6,P	SO3
						O7,PO8,PO9,P	
						O10,PO11,PO12	
					Analyse basic taxonomy and terminology of the computer	PO1,PO2,PO4,P	PSO2,PSO3
				CO1	networking area.	O5,PO7,PO10,P	
						O12	
					Describe the configuration and design of a small network	PO1,PO2,PO3,P	PSO1,PSO2,P
				CO2		O5,PO6,PO7,P	SO3
			N. C. A.			O8,PO10,PO11	
			MCA-203		Explain about research areas and future internets research fields	PO1,PO2,PO3,P	PSO1,PSO2,P
10	II	MCA	ComputerNet	CO3		O4,PO5,PO6,P	SO3
			works			O7,PO9,PO10,P	
						011	
					Learn components and rules of communications	PO1,PO2,PO3,P	PSO2,PSO3
				CO4		O4,PO9,PO10,P	
						O12	
				CO5	Construct and implement layer protocols within an environment	PO1,PO2,PO3,P	PSO2,PSO3
				003		O4,PO8,PO10	
					Explain the technologies used in web applications.	PO1,PO2,PO3,P	PSO1,PSO3
				CO1		O4,PO5,PO7,P	
						O9,PO10,PO12	
			MCA-204		DemonstrateHTML5, CSS, Java Script coding for web applications	PO1,PO2,PO3,P	PSO1,PSO3
11	II	MCA	WebTechn	CO2		O4,PO6,PO7,P	
11	11	MCA				O9,PO10,PO12	
			ologies		Design creative websites using object-based scripting concepts	PO1,PO2,PO3,P	PSO1,PSO2,P
				CO3		O4,PO6,PO10,P	SO3
						011	
				CO4	Learn to access data base through Java programs, using Java Data	PO1,PO2,PO3,P	PSO1,PSO2,P



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					Base Connectivity (JDBC)	O4,PO10,PO11	SO3
				CO5	Create dynamic webpages, using Servlets and JSP	PO1,PO2,PO3,P	PSO1,PSO3
					Tradenstand the history development and various applications of	O4,,PO10,	DCO1 DCO2 D
				CO1	Understand the history, development and various applications of	PO1,PO2,PO4,P O9,PO10,PO11	PSO1,PSO2,P SO3
					artificial intelligence	, ,	
			MCA-205	CO2	Illustrate knowledge base system	PO1,PO2,PO3,P	PSO1,PSO3
			ArtificialInt			O9,PO10,PO11	PGO1 PGO2
10		NOA	elligence	COA	Solve different problems using AI algorithm	PO1,PO2,,PO4,	PSO1,PSO3
12	II	MCA		CO3		PO5,PO9,PO10,	
					Analyse have an embinty is being to alled in the lynewaled as	PO11,PO12	PSO1
				CO4	Analyse how uncertainty is being tackled in the knowledge	PO1,PO2,PO9,P O10,PO11,PO12	P301
					representation and reasoning process	, ,	
				CO5	Classify the expert systems	PO1,PO2,PO3,P	PSO1,PSO3
					With the state of	O4,PO10,PO11	PGO1 PGO2 P
				CO1	Write, test, and debug simple Python programs	PO1,PO2,PO3,P	PSO1,PSO2,P
			MCA 206			O4,PO5,PO6,P	SO3
			MCA-206			O7,PO8,PO9,P O10,PO11,PO12	
			PythonProg	CO2	Apply the concept of conditionals and loops in Python programs.	PO1,PO2,PO3,P	PSO1,PSO2,P
			ramming	CO2	Appry the concept of conditionals and loops in Fython programs.	O4,PO5,PO6,P	SO3
			Lab			07,P08,P09,P	303
						O10,PO11,PO12	
13	II	MCA		CO3	Develop the Python programs step-wise by defining functions and	PO1,PO2,PO3,P	PSO1,PSO2,P
					calling them.	O4,PO5,PO6,P	SO3
					caning them.	O7,PO8,PO9,P	
						O10,PO11,PO12	
				CO4	Develop the programs in basic C constructs	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO5,PO6,P	SO3
						O7,PO8,PO9,P	
						O10,PO11,PO12	



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				CO5	Read and write data from/to files in Python.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,PO12	PSO1,PSO2,P SO3
			MCA-207 Web Technologies	CO1	List varioustags in html and use these, apply Cascaded style sheetto create web page.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,PO12	PSO1,PSO2,P SO3
			Lab	CO2	Design and explain the basic concept of XML and create XML documents and Schema.	PO1,PO2,PO3,P O5,PO6,PO7,P O8,PO9,PO10,P O11,PO12	PSO1,PSO2,P SO3
14	п	MCA		CO3	Compare Servlet and JSP concepts and apply JSP concepts to create dynamic webpages by reducing the code complexity and store data in database.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,PO12	PSO1,PSO2,P SO3
				CO4	Explain usage of web servers and use this to develop webpage and store data in database in JSP on Web server.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,PO12	PSO1,PSO2,P SO3
				CO5	Develop solution to complex problems using appropriate method, technologies, framework, web services and content management.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO10,P O11,PO12	PSO1,PSO2,P SO3
				CO1	Explain Data Ware house fundamentals, Data Mining Principles	PO1,PO2,PO3,P O4,PO6	PSO1
15	III	MCA	MCA-301 Data Mining	CO2	Demonstrate appropriate data mining algorithms to solve real world problems	PO1,PO2,PO3,P O4,PO7,PO9,P O12	PSO1
			and Big Data	CO3	Compare different data mining techniques like classification, prediction, clustering and association rule mining.	PO1,PO2,PO3,P O4,PO5,PO7,P	PSO1



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						O9,PO11,PO12	
					Construct big data associated applications in intelligent business and	PO1,PO2,PO3,P	PSO1,PSO3
				CO4	scientific computing	O4,PO6,PO9,P	
						O11,PO12	
					Infer fundamental enabling techniques and scalable algorithms like	PO1,PO2,PO3,P	PSO1,PSO3
				CO5	Hadoop, Map Reduce in big dataanalytics	O4,PO9,PO11,P	
						O12	20012002
				CO1	Find the factors driving the need for network security,	PO1,PO2,PO8,P	PSO1,PSO2
			MCA-302			O9,PO10	DGG1 DGG2
				CO2	Identify and classify particular examples of attacks,	PO1,PO2,PO3,P	PSO1,PSO2
			Cryptography			O8,PO9,PO10	DGO1 DGO2 D
			andNetworkS	CO2	Compare symmetric and a symmetric encryption system and their	PO1,PO2,PO3,P	PSO1,PSO2,P
16	III	MCA	ecurity	CO3	vulnerability to attacks	O4,PO8,PO9,P O10	SO3
					Summarize the use of hash functions and explain the characteristics	PO1,PO2,PO3,P	PSO1,PSO2,P
				CO4	_	08,P010,P011,	SO3
				004	of one-way and collision-free functions	PO12	303
					Illustratetheeffectivenessofpasswordsinaccesscontrolandtheinfluence	PO1,PO8,PO10,	PSO1,PSO2,P
				CO5	ofhuman behaviour.	PO11,PO12	SO3
					Distinguish different types of Distributed Computing models and	PO1,PO2,PO3,P	PSO1,PSO2
				CO1	identify different cloud computing models and services provided by	O4,PO6,PO8,P	1501,1502
			MCA-303	CO1		O9,PO11	
			WICA-303		cloud providers.	*	20012002
			Cloud		Demonstrate virtualization of clusters and data centres	PO1,PO2,PO3,P	PSO1,PSO2
			Computing	CO2		O4,PO5,PO6,P	
17	III	MCA	Computing			O7,PO8,PO9,P	
					Apply and design Clayd Descures Management and scheduling	O11,PO12	DCO1 DCO2 D
				CO3	Apply and design Cloud Resource Management and scheduling	PO1,PO2,PO3,P O4,PO6,PO8,P	PSO1,PSO2,P SO3
				003	algorithms	010,PO11,PO12	303
					Explain Storage models and security aspects of Cloud	PO1,PO2,PO3,P	PSO1,PSO2,P
				CO4	Explain Storage models and security aspects of Cloud	1 01,1 02,1 03,1	1501,1502,1



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			1			O4,PO8,PO10,P	SO3
						011	303
					Illestants Classif Applications and Depolitions		DCO1 DCO2 D
				CO5	Illustrate Cloud Applications and Paradigms	PO1,PO2,PO3,P	PSO1,PSO2,P
					TT 1 C	O4,PO8,PO11	SO3
					How to make a computer program learn from experience	PO1,PO2,PO3,P	PSO1,PSO3
			MCA-304	CO1		O4,PO5,PO7,P	
						O8,PO9,PO10,P	
			MachineLear			O12	PGO1 PGO2
			ning	CO2	Illustrate the significance of concept learning	PO1,PO2,PO3,P	PSO1,PSO3
						O4,PO10,PO12	
18	III	MCA		CO3	Representation of decisions and decision making explicitly	PO1,PO3,PO4,P	PSO1,PSO3
						O5,PO6,PO10	
					Construct finite and infinite Hypothesis spaces for computational	PO1,PO2,PO3,P	PSO1,PSO3
				CO4	learning	O4,PO5,PO7,P	
						O8,PO10	
				CO5	Apply Inductive and Analytical learning in developing learning tasks	PO1,PO2,PO10,	PSO1,PSO3
						PO12	
			MCA-305.2	CO1	To implement PHP script using Decisions and Loops.	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO7,PO8,P	SO3
			Open source			O9,PO10,PO12	
			Technologies	CO2	To develop PHP applications using Strings, Arrays and Functions	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO7,PO8,P	SO3
						O9,PO10,PO12	
19	III	MCA		CO3	To design object-oriented programming (OOP) principals for PHP	PO1,PO2,PO3,P	PSO1,PSO2,P
		MICH			and use HTML form elements that work with any server-side	O4,PO5,PO6,P	SO3
					Language.	O7,PO8,PO9,P	
						O10,PO11,PO12	
				CO4	To display and insert data using PHP and My SQL.	PO1,PO2,PO3,P	PSO1,PSO2,P
						O4,PO5,PO6,P	SO3
						O7,PO8,PO9,P	
						O10,PO11,PO12	



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	III	MCA	MCA -306	CO1	Understand and implement the basics of data structures like Linked list, stack, queue, set and map in Java.	PO1,PO2,PO3,P O4,PO6,PO8,P O10	PSO1
	111	MCA	Data Mining and Big Data Lab	CO2	Demonstrate the knowledge of big data analytics and implement different file management task in Hadoop.	PO1,PO2,PO3,P O4,PO5,PO6,P O8,PO10,PO11, PO12	PSO1,PSO2
20				CO3	Understand Map Reduce Paradigm and develop data applications using variety of systems.	PO1,PO2,PO3,P O4,PO5,PO6,P O8,PO10,PO11, PO12	PSO1,PSO2,P SO3
				CO4	Analyze and perform different operations on data using Pig Latin scripts.	PO1,PO2,PO3,P O4,PO7,PO10,P O11,PO12	PSO1,PSO3
			MCA- 307	CO1	Discuss the basics of network security and cryptography.	PO1,PO2,PO8,P O9,PO10	PSO1,PSO2
	III	MCA	Cryptography &Network	CO2	Explain the various standards Symmetric Encryption algorithms used to provide confidentiality.	PO1,PO2,PO3,P O8,PO9,PO10	PSO1,PSO2
21			Security Lab	СОЗ	Explain the various standards Asymmetric Encryption algorithms to achieve authentication.	PO1,PO2,PO3,P O8,PO9,PO10	PSO1,PSO2,P SO3
				CO4	Demonstrate encryption techniques to secure data in transit across network.	PO1,PO2,PO3,P O4,PO8,PO10,P O11,PO12	PSO1,PSO2,P SO3
22	137	MCA	MCA – 401	CO1	To Prepare abstract for given project by identifying the requirements and prospective solution.	PO1,PO2,PO3,P O4,PO5,PO9,P O10,PO11,PO12	
22	IV	MCA	Project Work	CO2	To Develop latest information related to the project from various sources to analyze the project.	PO1,PO2,PO3,P O4,PO5,PO8,P O10,PO11,PO12	



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		CO3	To Choose the materials for the project as per specifications and efficient test for developing the project.	
		CO4	To Illustrate effective team work after efficient testing, elaborate the completed task and compile the project.	
		CO5	To Prepare a good report of the project as per the guidelines and present to the panel of experts.	



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#### I MCA – I SEMESTER – MCA-101-DATASTRUCTURESwithC++

					MAPPIN	NG(COs &	PSOs)								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	-	2	-	1	3	2	2	3	3	3
CO2	3	3	3	2	2	1	2	-	1	3	2	2	3	3	3
CO3	3	3	3	2	2	2	3	3	-	3	2	2	3	3	3
CO4	3	3	3	2	2	-	3	-	-	3	2	2	3	3	3
Ave rage	3	3	3	2	2	1.5	2.5	3	1	3	2	2	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.3

OVER ALL AVERAGE BETWEEN COS & PSOS = 3



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#### I MCA – I SEMESTER – MCA -102 DATABASE MANAGEMENT SYSTEM

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	2	2	3	-	-	-	-	2	-	1	-	2	2	-	1
CO2	2	-	3	-	-	2	-	2	2	2	2	2	-	2	2
CO3	2	-	2	-	2	-	-	-	2	2	2	-	2	2	2
CO4	2	2	3	-	-	2	-	-	-	3	-	-	2	-	3
Ave rage	2	2	2.75	-	2	2	-	2	2	2	2	2	2	2	2



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#### I MCA – I SEMESTER – MCA-103 - PROBABILITYANDSTATISTICS

					MAPPIN	NG(COs &	PSOs)								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-
СОЗ	3	2	2	-	-	-	-	_	-	-	-	-	-	-	-
CO4	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Ave rage	2.5	2	2	-	-	-	-	-	-	-	-	-	-	-	-

OVER ALL AVERAGE BETWEEN COS & POS =2.1

OVER ALL AVERAGE BETWEEN COS & PSOS =0



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#### I MCA – I SEMESTER – MCA-104 - OPERATINGSYSTEMS

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	2	1	3	-	-	-	-	-	3	-	-	3	-	2
CO2	3	3	1	3	-	-	3	-	-	3	-	3	3	-	3
CO3	3	1	-	3	-	-	-	-	-	3	-	3	3	-	2
CO4	3	3	1	3	1	-	-	3	1	3	-	3	3	-	3
Ave rage	3	2.6	1	3	-	-	3	3	-	3	-	3	3	-	2.5

OVER ALL AVERAGE BETWEEN COS & POS = 2.7

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.75



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#### I MCA – I SEMESTER – MCA-105- COMPUTERORGANIZATION

					MA	PPING	(COs &	& POs	)				MAPPING(COs &PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3	
CO1	3	2	2	3	2	-	2	3	-	3	3	2	2	3	2	
CO2	3	2	2	3	2	3	-	2	3	-	3	2	2	3	2	
CO3	3	2	2	2	-	2	-	-	2	2	-	-	2	2	3	
CO4	3	2	2	2	-	-	3	-	-	-	-	-	2	2	-	
Ave rage	3	2	2	2.5	2	2.5	2.5	2.5	2.5	2.5	3	2	2	2.5	2.3	

OVER ALL AVERAGE BETWEEN COS & POS = 2.41

OVER ALL AVERAGE BETWEEN COS & PSOS =2.26



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#### I MCA – I SEMESTER – MCA-106 -DATASTRUCTURESLab

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	-	3	3	_	-	_	_	-	-	-	3	3	-	2
CO2	3	2	1	3	-	-	-	-	-	-	-	3	3	-	2
СОЗ	3	2	2	3	-	-	-	-	-	-	-	2	3	-	2
CO4	3	3	3	3	-	-	-	-	-	-	-	2	3	-	2
CO5	3	2	2	3	-	-	-	-	-	-	-	3	3	-	2
Ave rage	3	2.25	2.2	3	-	-	-	-	-	-	-	2.6	3	1	2



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#### I MCA – I SEMESTER – MCA-107 -DATABASE MANAGEMENT SYSTEMS LAB

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	2	1	1	1	-	1	-	1	2	2	1	2	3	1	3
CO2	1	1	1	-	-	-	-	-	1	1	-	-	1	1	1
CO3	2	2	2	-	-	-	-	_	2	2	-	-	1	1	2
CO4	3	3	3	3	3	3	-	_	3	3	3	3	2	2	3
CO5	3	3	3	3	3	3	-	3	3	3	3	3	3	3	3
Ave rage	2.2	2	2.5	2.3	3	2.3	-	2	2.2	2.2	2.3	2.6	2	1.6	2.4



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#### I MCA – II SEMESTER – MCA-201:SOFTWAREENGINEERING

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	2	-	2	3	3	-	-	3	-	3
CO2	3	3	3	3	3	-	3	_	-	3	-	3	3	-	3
CO3	3	-	-	3	3	-	-	-	-	3	-	3	3	-	2
CO4	3	3	2	3	-	-	2	_	-	3	-	3	3	-	3
Ave rage	3	2.6	2.6	3	3	2	2.5	2	3	3	-	3	3	-	2.75

OVER ALL AVERAGE BETWEEN COS & POS = 2.7

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.87



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# I MCA – II SEMESTER – MCA-202: Programming and Problem Solving Using Python

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	2	3	1	2	3	2	3	3	3	3
CO2	3	3	3	2	2	2	2	1	2	3	2	2	3	3	3
CO3	3	3	3	2	2	2	2	1	2	3	2	2	3	3	3
CO4	3	3	3	3	2	2	2	1	2	3	2	2	3	3	3
CO5	3	3	3	3	2	2	2	1	2	3	2	2	3	3	3
Ave rage	3	3	3	2.6	2	2	2.2	1	2	3	2	2.2	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.33

OVER ALL AVERAGE BETWEEN COS & PSOS = 3



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#### I MCA – II SEMESTER – MCA-203:COMPUTERNETWORKS

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	2	2	-	2	2	-	2	-	-	2	-	2	-	3	2
CO2	2	2	2	-	2	3	2	2	-	2	2	-	2	3	2
CO3	2	2	2	3	2	3	2	_	2	3	2	-	2	3	2
CO4	2	2	2	3	-	-	-	_	2	3	-	2	-	3	2
CO5	2	2	2	3	-	-	-	2	-	2	-	-	-	3	2
Ave rage	2	2	2	2.75	2	3	2	2	2	2.4	2	2	2	3	2

OVER ALL AVERAGE BETWEEN COS & POS = 2.17

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.33



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#### I MCA – II SEMESTER – MCA-204: WEBTECHNOLOGIES

					MA	PPING	(COs &	k POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	2	-	2	2	-	2	2	-	2
CO2	3	2	2	2	2	2	2	-	2	2	-	2	2	-	2
CO3	3	2	2	3	-	2	-	-	-	3	3	-	3	2	3
CO4	3	2	2	3	-	-	-	_	-	3	3	-	3	2	3
CO5	3	2	2	3	-	-	-	-	-	3	-	-	3	-	3
Ave rage	3	2	2	2.6	2	2	2	-	2	2.6	3	2	2.6	2	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.29

OVER ALL AVERAGE BETWEEN COS & PSOS =2.4



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## I MCA – II SEMESTER – MCA- 205:ARTIFICIALINTELLIGENCE

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	-	3	-	-	-	-	2	3	3	-	2	2	2
CO2	3	3	3	_	-	-	-	-	2	3	3	-	2	-	2
CO3	3	3	-	3	3	-	-	-	3	2	3	3	3	-	2
CO4	3	3	-	-	-	-	-	-	3	2	3	3	3	-	-
CO5	3	3	3	3	-	-	-	-	-	3	2	-	3	-	3
Ave rage	3	3	3	3	3	-	-	-	2.5	2.6	2.8	3	2.6	2	2.25

OVER ALL AVERAGE BETWEEN COS & POS = 2.87

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.28



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#### I MCA – II SEMESTER – MCA-206 -PYTHON PROGRAMMING LAB

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3
CO2	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3
CO3	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3
CO4	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3
CO5	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3
Ave rage	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.16

OVER ALL AVERAGE BETWEEN COS & PSOS =3



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#### I MCA – II SEMESTER – MCA-207 –WEB TECHNOLOGIES LAB

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	3	2	2	2	3	2	2	3	3	3
CO2	3	3	3	-	2	2	3	2	2	3	2	2	3	3	3
CO3	3	3	3	3	2	2	3	2	3	3	2	2	3	3	3
CO4	3	3	3	3	2	3	3	3	3	3	2	2	3	3	3
CO5	3	3	3	3	2	2	3	3		2	2	2	3	3	3
Ave rage	3	3	3	2.75	2	2.4	2.8	2.4	2.5	2.8	2	2	3	3	3



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#### II MCA – III SEMESTER – MCA -301 - DATA MININGANDBIGDATA

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	2	2	2	-	2	_	-	-	-	-	-	2	-	-
CO2	3	2	2	2	-	-	2	-	3	-	3	3	2	-	-
CO3	3	3	2	2	2	-	2	_	3	-	3	3	3	-	-
CO4	3	3	2	2	-	2	-	-	3	-	3	3	3	-	3
CO5	3	3	2	2	-	-	-	-	3	-	3	3	3	-	3
Ave rage	3	2.6	2	2	2	2	2	-	3	-	3	3	2.6	-	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.46

OVER ALL AVERAGE BETWEEN COS & PSOS =2.8



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## II MCA – III SEMESTER –MCA- 302- CRYPTOGRAPHY ANDNETWORKSECURITY

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	-	-	-	-	-	3	2	3	-	-	3	3	-
CO2	3	3	3	-	-	-	-	3	2	3	_	-	3	3	-
CO3	3	3	2	3	-	-	-	3	2	3	-	-	3	3	3
CO4	3	3	3	-	-	-	-	3	-	3	3	3	3	3	3
CO5	3	-	-	-	-	-	-	3	-	3	3	3	3	3	3
Ave rage	3	3	2.6	3	-	-	_	3	2	3	3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.84

OVER ALL AVERAGE BETWEEN COS & PSOS = 3



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#### II MCA - III SEMESTER - MCA- 303-CLOUD COMPUTING

					MA	PPING	(COs &	& POs	)				MAPPIN	NG(COs &l	PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	2	2	2	2	-	2	-	2	2	-	2	-	2	2	-
CO2	2	3	2	2	2	2	2	2	2	-	2	2	2	2	-
CO3	3	2	2	3	-	2	-	3	-	2	3	2	3	3	2
CO4	3	3	2	3	-	-	-	3	-	2	3	-	3	3	3
CO5	3	3	2	3	-	-	-	3	-	-	3	-	3	3	3
Ave rage	2.6	2.6	2	2.6	2	2	2	2.6	2	2	2.6	2	2.6	2.6	2.6

OVER ALL AVERAGE BETWEEN COS & POS = 2.25

OVER ALL AVERAGE BETWEEN COS & PSOS = 2.6



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## II MCA – III SEMESTER – MCA-304-MACHINELEARNING

	MAPPING(COs & POs)												MAPPING(COs &PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3	
CO1	3	2	3	3	3	-	3	2	3	3	-	3	3	-	2	
CO2	3	3	3	3	-	-	-	-	-	3	-	3	3	-	3	
CO3	3	-	3	3	3	2	-	_	-	3	-	_	3	-	2	
CO4	3	3	2	3	3	-	2	2	-	3	-	-	3	-	3	
CO5	3	2	-	-	-	-	-	-	-	3	-	3	3	-	3	
Ave rage	3	2.5	2.75	3	3	2	2.5	2	3	3	-	3	3	-	2.6	

OVER ALL AVERAGE BETWEEN COS & POS = 2.7

OVER ALL AVERAGE BETWEEN COS & PSOS =2.8



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#### II MCA – III SEMESTER –MCA-305.2-OPEN SOURCE TECHNOLOGY

	MAPPING(COs & POs)												MAPPING(COs &PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3	
CO1	3	3	2	3	-	-	2	1	1	3	-	3	3	3	3	
CO2	3	3	3	3	-	-	2	1	2	3	-	2	3	3	3	
CO3	3	3	3	3	1	2	3	1	1	3	2	2	3	3	3	
CO4	3	3	3	3	2	1	3	1	2	2	1	2	3	3	3	
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ave rage	3	3	2.75	3	1.5	1.5	2.5	1	1.5	2.75	1.5	2.25	3	3	3	

OVER ALL AVERAGE BETWEEN COS & POS = 2.22

OVER ALL AVERAGE BETWEEN COS & PSOS = 3



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## II MCA – III SEMESTER –MCA-306- Data Mining and Big Data LAB

	MAPPING(COs & POs)												MAPPING(COs &PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3	
CO1	3	2	2	2	-	2	-	-	-	-	-	-	2	-	-	
CO2	3	2	2	2	-	-	2	-	3	-	3	3	2	-	-	
CO3	3	3	2	2	2	-	2	-	3	-	3	3	3	-	-	
CO4	3	3	2	2	-	2	-	-	3	-	3	3	3	-	3	
CO5	3	3	2	2	-	-	-	-	3	-	3	3	3	-	3	
Ave rage	3	2.6	2	2	2	2	2	-	3	-	3	3	2.6	-	3	

OVER ALL AVERAGE BETWEEN COS & POS = 2.22

OVER ALL AVERAGE BETWEEN COS & PSOS = 3



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# II MCA – III SEMESTER –MCA-307- Cryptography & Network Security LAB

					MA	PPING	(COs &	& POs	)				MAPPING(COs &PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	3	3	-	-	-	-	_	3	2	3	-	-	3	3	-
CO2	3	3	3	-	-	-	-	3	2	3	-	-	3	3	-
CO3	3	3	2	3	-	-	-	3	2	3	-	-	3	3	3
CO4	3	3	3	-	-	-	-	3	-	3	3	3	3	3	3
CO5	3	-	-	-	-	-	-	3	-	3	3	3	3	3	3
Ave rage	3	3	2.6	3	-	-	-	3	2	3	3	3	3	3	3

OVER ALL AVERAGE BETWEEN COS & POS = 2.22

OVER ALL AVERAGE BETWEEN COS & PSOS = 3



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# II MCA – IV SEMESTER –MCA-401 - Project Work

					MA	PPING	(COs &	& POs	)				MAPPING(COs &PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P012	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	-	-	-	2	1	2	3	3	2	2
CO2	3	3	3	3	3	-	2	-	-	2	-	2	2	3	2
CO3	3	2	3	2	-	2	-	_	-	-	2	-	3	2	2
CO4	2	2	3	-	2	-	-	2	-	2	-	2	2	2	2
CO5	2	3	2	3	2	-	-	-	-	-	2	2	1	3	2
Ave rage	2.4	2.4	2.8	2.5	2.25	2	2	2	2	1.6	2	2.75	2.2	2.4	2



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	Mapping Matrix														
Course Code						CO vs	PO						(	COvsPS	<b>O</b>
Course Coue	PO1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
MCA-101	3	3	3	2	2	1.5	2.5	3	1	3	2	2	3	3	3
MCA-102	2	2	2.75	-	2	2	-	2	2	2	2	2	2	2	2
MCA-103	2.5	2	2	-	-	-	-	-	-	-	-	-	-	-	-
MCA-104	3	2.6	1	3	-	-	3	3	-	3	-	3	3	-	2.5
MCA-105	3	2	2	2.5	2	2.5	2.5	2.5	2.5	2.5	3	2	2	2.5	2.3
MCA- 106	3	2.25	2.2	3	-	-	-	_	-	-	-	2.6	3	-	2
MCA -107	2.2	2	2.5	2.3	3	2.3	-	2	2.2	2.2	2.3	2.6	2	1.6	2.4
MCA-201	3	2.6	2.6	3	3	2	2.5	2	3	3	-	3	3	-	2.75
MCA-202	3	3	3	2.6	2	2	2.2	1	2	3	2	2.2	3	3	3
MCA-203	2	2	2	2.75	2	3	2	2	2	2.4	2	2	2	3	2



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MCA-204	3	2	2	2.6	2	2	2	_	2	2.6	3	2	2.6	2	2.6
MCA-205	3	3	3	3	3	-	-	_	2.5	2.6	2.8	3	2.6	2	2.25
MCA -206	3	3	3	3	2	1	2	1	1	3	2	2	3	3	3
MCA- 207	3	3	3	2.75	2	2.4	2.8	2.4	2.5	2.8	2	2	3	3	3
MCA-301	3	2.6	2	2	2	2	2	-	3	_	3	3	2.6	-	3
MCA-302	3	3	2.6	3	-	-	-	3	2	3	3	3	3	3	3
MCA-303	2.6	2.6	2	2.6	2	2	2	2.6	2	2	2.6	2	2.6	2.6	2.6
MCA-304	3	2.5	2.75	3	3	2	2.5	2	3	3	-	3	3	-	2.6
MCA-305.2	3	3	2.75	3	1.5	1.5	2.5	1	1.5	2.75	1.5	2.25	3	3	3
MCA -306	3	2.6	2	2	2	2	2	-	3	-	3	3	2.6	-	3
MCA -307	3	3	2.6	3	-	-	-	3	2	3	3	3	3	3	3
MCA-401 Project work	2.4	2.4	2.8	2.5	2.25	2	2	2	2	1.6	2	2.75	2.2	2.4	2
Average	2.80	2.52	2.43	2.68	2.20	2.01	2.30	2.15	2.16	2.63	2.42	2.49	2.67	2.60	2.61

# ST AND ON SEE THE MANUEL

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# **DEPARTMENT OF MBA**

S. No	Sem ester	Course Code	Course Title		Course Outcomes(Cos)	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
				CO1	By the end of the course, students will be able to understand the basic concepts in Management- Levels, Skills, Role, Functions & Principles of Management.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO2	By the end of the course, students will be able to analyse the theoretical concepts - Forecasting – Techniques of Forecasting. Decision making, MBO.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
1	I	Bus1.1 (R22)	Manage ment process	CO3	By the end of the course, students will be able to investigate the Functions & Responsibilities of Managers	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
	process		CO4	By the end of the course, students will be able to evaluate the role of managers in Business Environment of the organization-, key elements in Organizational Behaviour, Challenges & Opportunities for OB.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3	
				CO5	By the end of the course, students will be able to explain the principles of human behaviour in an organization through Communication, Motivation, Group Dynamics, Leadership &	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3



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				Organizational Design.		
			CO1	By the end of the course, students will be able to understand various statistical and mathematical techniques for business decisions.	PO1, PO3,PO4,PO5, PO9,PO10,PO1 1, PO12	PSO1,PS O2,PSO3
		Quantit ative	CO2	By the end of the course, students will be able to analyse the benefits as well as the limits of quantitative analysis in a real-world context.	PO1, PO3,PO4,PO5, PO9,PO11, PO12	PSO2,PS O3
2	Bus1.2 (R22)	Techniq ues for Manage rial decisio	CO3	By the end of the course, students will be able to investigate the probabilistic distributions in solving problems.	PO1, PO3,PO4, PO9, PO11, PO12	PSO2,PS O3
		ns	CO4	By the end of the course, students will be able to evaluate the hypothesis testing for large and small samples.	PO3,PO4,PO5, PO9, PO10 PO11, PO12	PSO1,PS O2
			CO5	By the end of the course, students will be able to explain the linear programming problems by graphical and simplex methods.	PO3,PO4,PO5, PO11, PO12	PSO2,PS O3
3	Bus1.3. 2(R22)	Manage rial Econo mics	CO1	By the end of the course, students will be able to understand the Role and Responsibilities of Managerial Economist in decision making.	PO1,PO2,PO3,P O4,PO5, PO8,PO9,PO10, PO12	PSO1,PS O2,PSO3
			CO2	By the end of the course, students will be able to analyse the Consumer Equilibrium under Ordinal and Cardinal Utility Theories-Indifference Curve Analysis - Income Substitution and Price Effects - Demand Analysis - Law of Demand	PO1,PO2,PO3,P O4,PO5, PO7,PO8,PO9,P O10, PO12	PSO1,PS O2,PSO3
			CO3	By the end of the course, students will be able to investigate the Total Product, Marginal and Average	PO1,PO2,PO3,P O4,PO5, PO8,PO9,PO10, PO12	PSO1,PS O2,PSO3



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				Product Curves, their derivation and		
				interrelationships - The law of		
				Diminishing Marginal Returns in		
				Production		
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
				will be able to evaluate the Pricing	O4,PO5,	O2,PSO3
				and output decisions of firm under	PO8,PO9,PO10,	
			CO4	different market structures - Perfect	PO12	
				Competitions pure monopoly,		
				Oligopoly		
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
				will be able to explain the Pricing	O4,PO5,	O2,PSO3
			CO5	Practices of Firms	PO8,PO9,PO10,	
					PO11, PO12	
	Bus1.4			Dr. the and of the	PO1,PO2,PO3,P	PSO1,PS
	(R22)	Environ		By the end of the course, students will be able to	O4,PO5,PO6,P	O2,PSO3
		ment		students will be able to understand how the economy is	O7,PO8,PO9,P	
		Manage	CO1	affected by internal and external	O10,PO11,	
		ment		factors and how this in turn affects	PO12	
				the business.		
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
			COA	will be able to analyze the	O4,PO5,PO6,P	O2,PSO3
			CO2	consumption affects on business and	O7,PO8,PO9,P O10,PO11,	
				economy.	PO12	
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
4				will be able to investigate the	O4,PO5,PO6,P	O2,PSO3
4			CO3	factors of the Economic, Political,	O7,PO8,PO9,P	
				Legal and Global environment of	O10,PO11, PO12	
				business.		
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
			CO4	will be able to evaluate the	O4,PO5,PO6,P O7,PO8,PO9,P	O2,PSO3
			CO4	Political and Legal Environment of	O10,PO11,	
				Business.	PO12	
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
				will be able to explain the Global	O4,PO6,PO7,P	O2,PSO3
			CO5	Environment of Business-Foreign	O8,PO9,PO10,P O11,	
				collaborations in the Indian	PO12	
				business, International economic	<del></del>	



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				institutions.		
	Bus1.5 (R22)	Manage rial Skill Develo pment	CO1	By the end of the course, students will be able to understand the Business communication- essential elements of effective communication – communication barriers – overcoming communication barriers.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO2	By the end of the course, students will be able to analyse the Media of Communication: Verbal & non-verbal. Oral communication: Forms	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
5			CO3	By the end of the course, students will be able to investigate the Channels of Communication- steps to improve the effectiveness of formal and informal communication – 7C's of Communication	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO4	By the end of the course, students will be able to evaluate the Listening process importance in business communication	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO5	By the end of the course, students will be able to explain the Procedure and guidelines for effective report writing & essential skills of negotiation.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
	Bus1.6 (R22)	Accounting for Manage	CO1	By the end of the course, students will be able to understand the Introduction to Accounting.	PO1,PO3,PO4,P O5,PO6,PO7,P O9,PO10,PO11, PO12	PSO1,PS O2,PSO3
6			CO2	By the end of the course, students will be able to analyse the Preparation of Financial statements-Income statement and Balance sheet – Bank Reconciliation Statement.	PO1,PO3,PO4,P O5,PO6,PO7,P O9,PO10,PO11, PO12	PSO1
			CO3	By the end of the course, students will be able to investigate the Analysis of Financial StatementsFinancial Ratio analysis – Funds	PO1,PO3,PO4,P O5,PO6,PO7,P O9,PO10,PO11, PO12	PSO1



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					Flow and Cash Flow Analysis.		
				CO4	By the end of the course, students will be able to evaluate the Management Accounting.	PO1,PO3,PO4,P O5,PO6,PO7,P O9,PO10,PO11, PO12	PSO1,PS O3
				CO5	By the end of the course, students will be able to explain the Contemporary Developments in fundamental of accounting.	PO1,PO3,PO4,P O5,PO6,PO7,P O9,PO10,PO11, PO12	PSO1,PS O3
		Bus1.7 (R22)	IT for Manage rs	CO1	By the end of the course, students will be able to understand the Basic Computer Architecture-Input Output devices- Storage devices-Hardware and software-Networks.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO2	By the end of the course, students will be able to analyse the Creation of Document- format document-Text Editing and saving-Organising information with tables and outlines- Mail merge.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
7				CO3	By the end of the course, students will be able to investigate the Use of templates and slide designs, Slide master, Animation Timings, Action buttons, Rehearse Narration, Slideshow.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate the Data Types, Variables, Constants, Input / Output, Operators (Arithmetic, relational, logical, bitwise.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Security Threats and Attacks, Malicious Software, Hacking & Security Mechanisms.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
8	II	Bus 2.1 (R22)	Entrepr eneursh ip	CO1	By the end of the course, students will be able to understand the Entrepreneurship-Characteristics-	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,	PSO1,PS O2,PSO3



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		Develo		Entrepreneur Vs Intrapreneur-	PO12	
		pment		Management Vs Entrepreneurship		
			CO2	By the end of the course, students will be able to analyse the Steps in assessing business potential of an idea- Opportunity Recognition	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO3	By the end of the course, students will be able to investigate the Project preparationand Financing Ventures	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO 4	By the end of the course, students will be able to evaluate the Institutions SupportingSmall Business Enterprises	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO5	By the end of the course, students will be able to explain the Build a StartupManagement Team.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
9	Bus2.2 (R22)	Researc h Method ology &	CO1	By the end of the course, students will be able to understand the Nature and Scope ofResearch Methodology	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
		Busines s Analyti cs	CO2	By the end of the course, students will be able to analyse the Qualitative and Quantitative Research	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO3	By the end of the course, students will be able to investigate the Characteristics of agood sample, Types of sampling-Probability Sampling Types, Non-	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3



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				Probability		
			CO4	By the end of the course, students will be able to evaluate Multivariate Data analysis	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO5	By the end of the course, students will be able to explain Automated Data AnalysisUsing SPSS.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
10		Organiz ational Behavi our	CO1	By the end of the course, students will be able to understand the basic concepts in Management- Levels, Skills, Role, and Functions & Principles of Management.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO2	By the end of the course, students will be able to analyse the theoretical concepts - Forecasting – Techniques of Forecasting.  Decision making, MBO.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
	Bus2.3 (R22)		CO3	By the end of the course, students will be able to investigate the Functions & Responsibilities of Managers	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO4	By the end of the course, students will be able to evaluate the role of managers in Business Environment of the organization-, key elements in Organizational Behaviour, Challenges & Opportunities for OB.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO5	By the end of the course, students will be able to explain the principles of human behaviour in an organization through Communication, Motivation, Group Dynamics, and Leadership	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3





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				& Organizational Design.		
11	Bus2.4( R22)	Human Resouir ce manage ment	CO1	By the end of the course, students will be able to understand the concept and importance of Human Resource Management in organizations	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO2	By the end of the course, students will be able to analyse the various functions of HRM, such as recruitment, selection, training and development, performance management, compensation and benefits, and employee relations	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO3	By the end of the course, students will be able to investigate the internal and external factors that impact human resource planning and Effective Coaching and Mentoring Skills	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO4	By the end of the course, students will be able to evaluate the training needs and design effective training programs and Career Development	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO5	By the end of the course, students will be able to explain the concepts of Quality ofWork Life (QWL) and Grievance handling Procedure	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
10	Bus2.5(	Financi al	CO1	By the end of the course, students will be able to understand the Financial Management and the goals of the firm	PO1,PO3,PO4,P O5,PO6,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
12	R22)	Manage ment	CO2	By the end of the course, students will be able to Analyse Investment DecisionsTraditional Techniques and Discounted Cash Flow Methods	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3



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				CO3	By the end of the course, students will be able to investigate the Capital StructureTheories – Net Income approach – Net operating income approach	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate Dividend Theories –Traditional position	PO1,PO2,PO3,P O4,PO5, PO10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain Concepts of working capital –Determinants of working capital – Optimum level of current assets	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO10,PO11, PO12	PSO1,PS O2,PSO3
		Bus2.6 (R22)	Marketi ng Manage ment	CO1	By the end of the course, students will be able to understand the Concepts ofMarketing; Marketing Management Tasks; Marketing Environment	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO2	By the end of the course, students will be able to analyse Marketing InformationSystem and Marketing Research	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
13				CO3	By the end of the course, students will be able to investigate the Development ofMarketing Offerings Strategy	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate Pricing Strategies and Programs Networks – Channels of Distribution.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Designing and ManagingMarketing Communications.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
14		Bus2.7 (R22)	Product ion & Operati	CO1	By the end of the course, students will be able to understand the Evolution of Operations	PO1,PO2,PO3,P O4,PO5,PO7,P O8,PO9,PO10,P	PSO1,PS O2,PSO3

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			ons Manage		Management	O11, PO12	
	ment				By the end of the course, students will be able to analyse the Location Decision Factors and Planning methods (Numerical); Layout planning – Planning and Principles of Layout, Classification of Plant Layout	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO3	By the end of the course, students will be able to investigate the Supply Chain Management – Framework, principles, electronic supply chain management.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate Inventory Management and Work study	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Quality, Maintenance and Project Management.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO1	By the end of the course, students will be able to understand the Strategic Management	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
15 <b>III</b>	Bus3.1 (R22)		CO2	By the end of the course, students will be able to analyse corporate, business and functional level strategy; Intended, Deliberate, Realized, Unrealized and Emergent strategies	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3	
			CO3	By the end of the course, students will be able to investigate the Strategic tools for analysis and appraisal of External Environment	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3	





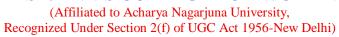


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				CO4	By the end of the course, students will be able to evaluate strengths and weakness of a firm - Resource Based Theory of the firm	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
					By the end of the course, students will be able to explain the strategies for competitive advantage	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
				CO1	By the end of the course, students will be able to understand the MIS operating in functional areas of an organization.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
		Bus3.2 (R22)								CO2	By the end of the course, students will be able to analyse the Decision Making Process – Relationship between Decision- Making and MIS.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
16			DSS & MIS	CO3	By the end of the course, students will be able to investigate the System Life Cycle Design - Prototype Approach - Detailed Study on Life Cycle System.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
				CO4	By the end of the course, students will be able to evaluate the Decision Support System:  Definitions	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
				CO5	By the end of the course, students will be able to explain the Database ManagementSystem.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
17	17	Bus3.3	Cornor	CO1	By the end of the course, students will be able to understand the Meaning and definition of Ethics – Ethical Theories	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3						
17		(R22)	ate Govern ance	CO2	By the end of the course, students will be able to analyse the Ethical corporate behavior – Ethical	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,	PSO1,PS O2,PSO3						



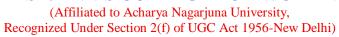


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				decision making – Conflicts in decision making from the legal and moral points of view.	PO12	
			CO3	By the end of the course, students will be able to investigate the Corporate Social Responsibility activities	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO4	By the end of the course, students will be able to evaluate the Meaning and definition of corporate governance – Corporate management structure for corporate governance	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO5	By the end of the course, students will be able to explain the Corporate governance requirements in the ever changing global scenario. Global practices.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO1	By the end of the course, students will be able to understand the Finance function in anInternational Context. Additional dimensions in achieving the wealth maximization goal	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
18	Bus3.4 F (R22)	Internat ional Financi al Manage ment	CO2	By the end of the course, students will be able to analyse the Foreign Exchange Markets	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO3	By the end of the course, students will be able to investigate the International CapitalMarkets	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			CO4	By the end of the course, students will be able to evaluate the International CapitalStructure and	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,	PSO1,PS O2,PSO3







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					Cost of Capital.	PO12	
				CO5	By the end of the course, students will be able to explain the International CashManagement, techniques	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO1	By the end of the course, students will be able to understand the, Evolution and growth of Industrial Relations in India	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			Manage	CO2	By the end of the course, students will be able to analyse Evaluation of Worker's Participation in Management, and Conditions for success of Worker's Participation in Management	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
19		3.4 HR	ment of Industri al Relatio ns	CO3	By the end of the course, students will be able to investigate the Grievance procedure, Machinery available for redressal of Grievances	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate Prevention and settlement of Industrial Disputes in India, Industrial Disputes act	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Labour laws in Fundamental Rights.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
20	20	Bus3.5 F (R22)		CO1	By the end of the course, students will be able to understand the Investment Process	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
		F (R22)	Investm ent Manage ment	CO2	By the end of the course, students will be able to analyse the Valuation of fixed incomeSecurities	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11,	PSO1,PS O2,PSO3



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CO3  By the end of the course, students will be able to investigate the Approaches to Security Analysis: Fundamental Analysis  By the end of the course, students will be able to evaluate the Portfolio Return andPortfolio Risk  CO4  By the end of the course, students will be able to evaluate the Portfolio Return andPortfolio Risk  By the end of the course, students will be able to explain the Portfolio Evaluation & Revision.  By the end of the course, students will be able to explain the Portfolio Evaluation & PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,	PSO1,PS O2,PSO3 PSO1,PS O2,PSO3 PSO1,PS O2,PSO3
will be able to evaluate the Portfolio Return andPortfolio Risk  By the end of the course, students will be able to explain the Portfolio Evaluation & Revision.  O4,PO5,PO6,PO7,PO8,PO9,PO10,PO11, PO12  By the end of the course, students will be able to explain the Portfolio Evaluation & Revision.	O2,PSO3 PSO1,PS
will be able to explain the Portfolio Evaluation & Revision.  O4,PO5,PO6,P O7,PO8,PO9,P	*
PO12	
By the end of the course, students O4,PO5,PO6,P Will be able to understand the HRD objectives andphilosophy O10,PO11, PO12	PSO1,PS O2,PSO3
By the end of the course, students will be able to analyse the Od,PO5,PO6,P O7,PO8,PO9,P O7,PO8,PO9,P O10,PO11, PO12  By the end of the course, students will be able to analyse the O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
Manage ment Trainin g & Develo  Manage ment Trainin h g & Develo  Manage ment Trainin g & Develo  By the end of the course, students will be able to investigate the Reviewing and Evaluating HRD  By the end of the course, outperform of the course, students will be able to investigate the Reviewing and Evaluating HRD  O10,PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
By the end of the course, students O4,PO5,PO6,P Will be able to evaluate the HRD managers in MNC O10,PO11, PO12	PSO1,PS O2,PSO3
CO5  By the end of the course, students will be able to explain the Designing HRD model- Global Restrictions on certain Countries by the hiring Country  PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3



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	Bus4.1	Busines		By the end of the course, students	PO1,PO4,PO5,P	PSO1,PS
	(R22)	S	CO1		O7,PO8,PO11,	O2,PSO3
		Analyti		will be able to understand the	PO12	
		cs		Introduction toBusiness Analytics	DO1 DO2 DO2 D	D001 D0
				By the end of the course, students	PO1,PO2,PO3,P O4,PO5,PO6,P	PSO1,PS
			COA	will be able to analyse the Business	O7,PO8,PO11,	O2,PSO3
			CO2	Analytics Cycle Information and	PO12	
				Database Architecture and Data		
				Gathering Process	PO1,PO2,PO3,P	PSO1,PS
			~~~	By the end of the course, students will be able to investigate the	O4,PO5,PO6,P	O2,PSO3
22			CO3	Business Applications of Big Data	O7,PO8,PO11,	02,1503
				Business Applications of Big Data	PO12	
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
				will be able to evaluate the	O4,PO5,PO6,P	O2,PSO3
			CO4	Encourage an aptitude for business	O7,PO8,PO11, PO12	
				improvement, innovation and	1012	
				entrepreneurial action	DO1 DO2 DO2 D	DCO1 DC
				By the end of the course, students	PO1,PO2,PO3,P O4,PO5,PO6,P	PSO1,PS O2,PSO3
			CO5	will be able to explain the Reading	O7,PO8,PO11,	02,1303
				R data sets andcreating variables	PO12	
23				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
			CO1	will be able to understand the	O4,PO5,PO7,P	O2,PSO3
			COI	concepts of Knowledge Economy	O8,PO9,PO10,P O11,	
					PO12	
				By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
				will be able to analyse the	O4,PO5,PO7,P	O2,PSO3
			CO2	Information Technology &	O8,PO9,PO10,P	
		Knowle		Knowledge Management	O11, PO12	
	Bus4.2	dge		By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
	(R22)	manage		will be able to investigate the	O4,PO5,PO7,P	O2,PSO3
		ment	CO3	Future of Knowledge Management	O8,PO9,PO10,P	
				& Industry Perspective	O11,	
				By the end of the course, students	PO12 PO1,PO2,PO3,P	DCO1 DC
				will be able to evaluate the	O4,PO5,PO7,P	PSO1,PS O2,PSO3
			CO4	Knowledge Management Process	O8,PO9,PO10,P	02,1 505
				Timo wiedge Management i 100035	O11,	
					PO12	
			CO5	By the end of the course, students	PO1,PO2,PO3,P	PSO1,PS
				will be able to explain the	O4,PO5,PO7,P	O2,PSO3



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					Implementation of Knowledge Management and Study of Road Blocks to the implementation of knowledge management	O8,PO9,PO10,P O11, PO12	
				CO1	By the end of the course, students will be able to understand the International business environment	PO1,PO2,PO3,P O4,PO5,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
				CO2	By the end of the course, students will be able to analyse the Evaluating and selecting the country for global business and modes of entry into global business	PO1,PO2,PO3,P O4,PO5,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
24	Ruc/ 3	Global Busines s	CO3	By the end of the course, students will be able to investigate the Trends in international investments	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3	
				CO4	By the end of the course, students will be able to evaluate the Trade restrictions and economic development	PO1,PO2,PO3,P O4,PO5,PO8,P O9,PO10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Global Business Operations strategies	PO1,PO2,PO3,P O4,PO5,PO8,P O9,PO10,PO11, PO12	PSO1,PS O2,PSO3
				CO1	By the end of the course, students will be able to understand the concepts of HumanResource Management	PO1,PO2,PO3,P O4,PO6,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
25	25 <b>IV</b>	Bus 4.4 HR (R22)	Resour ce Manage	CO2	By the end of the course, students will be able to analyse the International recruitment and selection - Training and development of expatriates	PO1,PO2,PO3,P O4,PO6,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
			ment	CO3	By the end of the course, students will be able to investigate the Repatriation -Processof repatriation, job related adjustments, organisational development	PO1,PO2,PO3,P O4,PO6,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3





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				CO4	By the end of the course, students will be able to evaluate Employer-EmployeeRelation in MNCs	PO1,PO2,PO3,P O4,PO6,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain Cross Cultural Management	PO1,PO2,PO3,P O4,PO6,PO7,P O8,PO9,PO10,P O11, PO12	PSO1,PS O2,PSO3
	_	Bus4.5. F (R22)	Manage ment of Financi al Service	CO1	By the end of the course, students will be able to understand the Financial Services	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
			s	CO2	By the end of the course, students will be able to analyse the Merchant Bankingguidelines	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
26				CO3	By the end of the course, students will be able to investigate the Mutual Funds policies and Forfeiting – Securitization.	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate the Venture CapitalInstitutions in India	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Lease Financing	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
27		Bus4.5	Perfor mance & Compe	CO1	By the end of the course, students will be able to understand the Introduction toPerformance Management	PO2,PO6,PO7,P O8,PO9,PO11,P O12	PSO1,PS O2,PSO3
21		(R22)	nsation Manage ment	CO2	By the end of the course, students will be able to analyse the Introduction toCompensation Management	PO2,PO6,PO7,P O8,PO9,PO11,P O12	PSO1,PS O2,PSO3





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				CO3	By the end of the course, students will be able to investigate the Performance LinkedCompensation	PO2,PO6,PO7,P O8,PO9,PO11,P O12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate the InternationalCompensation Management.	PO1,PO2,PO6,P O7,PO8,PO9,P O11, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the CompensationAdministration	PO1,PO2,PO6,P O7,PO8,PO9,P O11, PO12	PSO1,PS O2,PSO3
		Bus 4.6 F (R22)	Corpor ate Taxatio n	CO1	By the end of the course, students will be able to understand the concepts of IncomeTax Act, 1961	PO1,PO2,PO3,P O4,PO5, PO9,PO11,PO1 2	PSO1,PS O2,PSO3
				CO2	By the end of the course, students will be able to analyse the Computation of income of a company under Income from House Properties	PO2,PO6,PO7,P 08,PO9,PO11,P 012	PSO1,PS O2,PSO3
28				CO3	By the end of the course, students will be able to investigate the Set-off and set-off and carry forward of losses	PO1,PO2,PO3,P O4,PO5,PO9, PO12	PSO1,PS O2,PSO3
				CO4	By the end of the course, students will be able to evaluate the Assessment of CompanyAssessee	PO1,PO2,PO3,P O4,PO5,PO9, PO12	PSO1,PS O2,PSO3
				CO5	By the end of the course, students will be able to explain the Tax planning	PO1,PO2,PO3,P O4,PO5,PO9, PO12	PSO1,PS O2,PSO3
		Bus 4.6 H (R22)	HRD Strateg	CO1	By the end of the course, students will be able to understand the HRD objectives and philosophy	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
29			y & System s	CO2	By the end of the course, students will be able to analyse the Observing and AssessingHRD needs, Planning and Designing HRD Needs	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3



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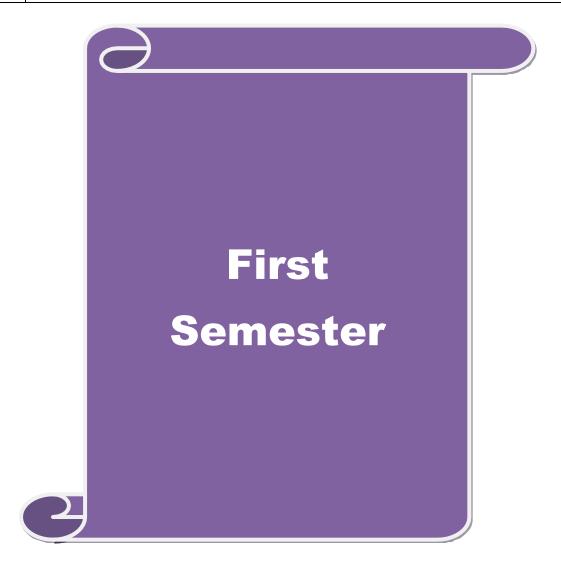
	CO3	By the end of the course, students will be able to investigate the Reviewing and Evaluating HRD	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
	CO4	By the end of the course, students will be able to evaluate the HRD managers in MNC	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3
	CO5	By the end of the course, students will be able to explain the Designing HRD model- Global Restrictions on certain Countries by the hiring Country	PO1,PO2,PO3,P O4,PO5,PO6,P O7,PO8,PO9,P O10,PO11, PO12	PSO1,PS O2,PSO3

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# MAPPING OF COs WITH POs – ATTRIBUTIVE MATRIX Department of MBA

# **Semester I**

**Course code and Name: 1.1 Management Process** 

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	3	3	2	2	3	3	3	3	2	3	3	3	3	3
CO- 2	3	3	3	3	2	2	2	3	3	2	2	2	2	3	3
CO- 3	3	2	3	2	3	2	2	3	2	3	3	3	3	3	3
CO- 4	3	3	3	3	2	2	3	3	3	3	2	2	2	3	2
CO- 5	3	2	3	2	2	3	2	3	2	2	3	2	2	3	3
Avg	3	2.6	3	2.4	2.4	2.4	2.4	3	2.6	2.4	2.6	2.4	2.4	3	2.8

Overall Average between COs & POs = 2.60

Overall Average between COs & PSOs = 2.73

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

Course code and Name: 1.2 Quantitative Techniques for Managerial Decisions

	PO-	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-								
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO- 1	3	-	3	2	2	•	-	-	3	3	2	2	3	3	3
CO- 2	3	-	2	3	3	•	-	-	3	-	3	2	-	2	3
CO- 3	3	-	3	3	-	•	-	-	3	-	2	3	-	2	3
CO- 4	-	-	3	3	3	•	-	-	3	3	3	2	3	2	-
CO- 5	-	-	2	2	2	•	-	-	-	-	2	3	-	2	3
Avg	3	-	2.6	2.6	2.4	-	-	-	3	3	2.4	2.4	3	2.2	3

Overall Average between COs & POs = 2.67

Overall Average between COs & PSOs = 2.73



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#### **Course code and Name: 1.3 Managerial Economics**

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO- 1	PSO- 2	PSO-
CO- 1	2	3	2	-	2	-	-	2	2	3	-	2	2	3	3
CO- 2	3	3	2	3	3	-	3	2	3	3	-	2	3	3	3
CO-	3	3	3	3	3	-	-	3	2	3	-	3	2	3	3
CO- 4	3	3	2	3	2	-	-	3	3	2	-	2	3	3	3
CO- 5	3	3	3	3	2	-	3	3	3	2	-	2	3	2	3
Avg	2.8	3	2.4	3	2.4	-	3	2.8	2.6	2.6	-	2.2	2.6	2.8	3

Overall Average between COs & POs = 2.68

Overall Average between COs & PSOs = 2.8

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

#### Course code and Name: 1.4 Environment Management

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	3	2	3	3	3	3	3	2	3	3	2	3	3	2
CO- 2	3	2	3	3	3	3	2	2	3	2	2	3	2	3	3
CO- 3	3	3	2	3	3	3	3	2	2	3	3	2	3	3	2
CO- 4	3	3	3	2	3	2	2	2	2	2	2	2	2	3	3
CO- 5	3	3	2	2	•	3	2	2	3	2	3	2	2	3	3
Avg	3	2.8	2.4	2.6	3	2.8	2.4	2.2	2.4	2.4	2.6	2.2	2.4	3	2.6

Overall Average between COs & POs = 2.56

Overall Average between COs & PSOs = 2.67



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#### Course code and Name: 1.5 Managerial Skill Development

	PO-	PO-2	PO-	PO-4	PO-	PO-	PO-7	PO-8	PO-9	PO-	PO-	PO-	PSO-	PSO-	PSO-
	1		3		5	6				10	11	12	1	2	3
CO- 1	3	3	2	3	3	2	3	3	2	2	2	3	3	3	2
CO- 2	3	2	3	3	3	3	3	3	2	2	2	3	2	3	2
CO- 3	3	3	2	2	3	3	3	2	2	3	3	2	3	3	3
CO- 4	3	3	3	3	3	2	3	2	3	3	3	2	3	3	3
CO- 5	3	2	2	2	3	2	3	2	2	3	3	3	2	3	3
Avg	3	2.6	2.4	2.6	3	2.4	3	2.4	2.2	2.6	2.6	2.6	2.6	3	2.6

Overall Average between COs & POs = 2.61

Overall Average between COs & PSOs = 2.73

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creatin

# **Course code and Name: 1.6 Accounting for Managers**

	PO-	PO- 2	PO- 3	PO- 4	PO- 5	PO-	PO-	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO- 1	PSO- 2	PSO-
CO-	3	-	3	2	3	3	3	-	3	2	3	3	3	2	3
CO- 2	2	-	3	3	3	2	-	-	3	3	3	2	2	3	-
CO-	3	-	3	3	2	3	3	-	2	3	3	3	2	-	-
CO- 4	3	-	3	3	2	3	3	-	3	3	2	2	3	-	3
CO- 5	3	-	3	2	3	2	3	-	2	3	2	2	2	-	3
Avg	2.8	-	3	2.6	2.6	2.6	3	-	2.6	2.8	2.6	2.4	2.4	2.5	3

Overall Average between COs & POs = 2.70

Overall Average between COs & PSOs = 2.63



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**Course code and Name: 1.7 IT for Managers** 

	PO-	PSO-	PSO-	PSO-											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO- 1	3	-	3	2	3	3	-	-	-	-	2	3	3	2	3
CO- 2	3	-	-	3	3	2	-	-	-	-	3	3	3	3	3
CO- 3	3	-	2	2	3	-	-	-	3	-	2	3	-	3	2
CO- 4	3	-	3	3	2	3	-	-	3	-	3	2	3	3	2
CO- 5	3	-	3	3	3	2	-	-	3	-	3	3	-	2	3
Avg	3	-	2.7	2.6	2.8	2.5	-	-	3	-	2.6	2.8	3	2.6	2.6

Overall Average between COs & POs = 2.75

Overall Average between COs & PSOs = 2.73

2021-2022 I YEAR – MBA – I SEM

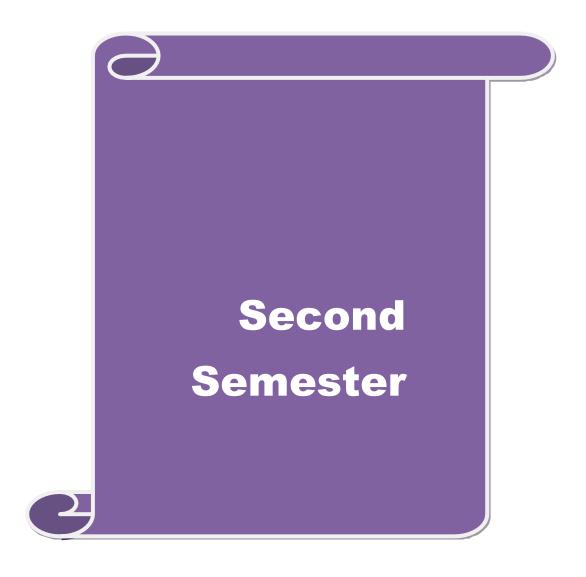
COs					MAP	PING (	Cos &	Pos)						APPIN s &PS	
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO- 8	PO-9	PO-10	PO-11	PO- 12	PSO-1	PSO-2	PSO-
1.1	3	2.6	3	2.4	2.4	2.4	2.4	3	2.6	2.4	2.6	2.4	2.4	3	2.8
1.2	3	-	2.6	2.6	2.4	-	-	-	3	3	2.4	2.4	3	2.2	3
1.3	2.8	3	2.4	3	2.4	-	3	2.8	2.6	2.6	-	2.2	2.6	2.8	3
1.4	3	2.8	2.4	2.6	3	2.8	2.4	2.2	2.4	2.4	2.6	2.2	2.4	3	2.6
1.5	3	2.6	2.4	2.6	3	2.4	3	2.4	2.2	2.6	2.6	2.6	2.6	3	2.6
1.6	2.8	-	3	2.6	2.6	2.6	3	-	2.6	2.8	2.6	2.4	2.4	2.5	3
1.7	3	-	2.7	2.6	2.8	2.5	-	-	3	-	2.6	2.8	3	2.6	2.6
Avg	2.94	2.75	2.64	2.62	2.65	2.54	2.76	2.6	2.62	2.63	2.56	2.42	2.57	2.72	2.8

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#### Semester II

Course code and Name: 2.1 Entrepreneurship Development

	PO-1	PO-	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-							
		2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO- 1	3	2	3	3	3	3	2	3	3	2	3	3	3	3	3
CO- 2	3	2	3	2	3	3	3	3	2	3	3	3	2	3	3
CO- 3	2	3	3	3	2	2	2	3	3	3	3	3	3	3	3
CO- 4	2	3	3	3	3	3	3	2	3	3	2	2	2	3	2
CO- 5	3	3	3	2	3	2	2	3	2	2	2	2	2	2	2
Avg	2.6	2.6	3	2.6	2.8	2.6	2.4	2.8	2.6	2.6	2.6	2.6	2.4	2.8	2.6

Overall Average between COs & POs = 2.65

Overall Average between COs & PSOs = 2.60

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

Course code and Name: 2.2 Research Methodology & Business Analytics

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	2	3	3	3	3	3	2	2	2	3	3	3	3	2
CO- 2	3	2	3	2	3	3	2	2	2	2	3	2	3	3	3
CO- 3	3	3	3	3	3	3	3	2	2	2	3	3	3	3	2
CO- 4	3	3	3	3	3	3	2	2	2	3	3	2	3	3	2
CO- 5	2	3	3	2	3	3	2	2	2	3	3	3	3	2	2
Avg	2.8	2.6	3	2.6	3	3	2.4	2	2	2.4	3	2.6	3	2.8	2.2

Overall Average between COs & POs = 2.61

Overall Average between COs & PSOs = 2.67



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#### Course code and Name: 2.3 Organizational Behaviour

	PO-	PSO-	PSO-	PSO-											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO- 1	3	3	3	2	2	3	3	2	2	2	3	3	3	3	3
CO- 2	3	2	3	3	3	3	3	2	3	3	3	2	2	3	3
CO- 3	2	3	3	2	3	2	2	3	3	3	3	3	2	3	3
CO- 4	2	3	3	3	3	2	3	2	3	2	3	2	3	3	3
CO- 5	3	2	3	3	3	2	2	2	2	3	3	2	2	3	2
Avg	2.6	2.6	3	2.6	2.8	2.4	2.6	2.2	2.6	2.6	3	2.4	2.4	3	2.8

Overall Average between COs & POs = 2.61

Overall Average between COs & PSOs = 2.73

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

#### Course code and Name: 2.4 Human Resource Management

	PO-	PO- 2	PO- 3	PO-	PO- 5	PO- 6	PO-	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO- 2	PSO-
CO- 1	3	3	3	2	3	2	2	2	3	2	2	3	3	3	3
CO- 2	3	2	3	2	2	3	3	3	2	3	3	3	2	3	3
CO- 3	2	3	3	3	3	3	2	3	3	3	2	3	2	3	3
CO- 4	2	3	3	3	2	2	2	3	2	3	2	3	3	3	2
CO- 5	2	2	3	3	2	2	3	3	2	3	3	3	2	3	2
Avg	2.4	2.6	3	2.6	2.4	2.4	2.4	2.8	2.4	2.8	2.4	3	2.4	3	2.6

Overall Average between COs & POs = 2.60

Overall Average between COs & PSOs = 2.67



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#### Course code and Name: 2.5 Financial Management

	PO-1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO-9	PO- 10	PO- 11	PO- 12	PSO- 1	PSO-	PSO-
CO- 1	3	-	3	3	3	3	2	3	2	3	3	2	3	3	3
CO-	3	3	3	2	3	3	3	3	3	2	3	2	3	3	2
CO- 3	3	3	2	3	3	2	2	3	2	3	3	2	3	3	3
CO- 4	3	2	3	3	2	-	-	-	-	3	3	2	2	3	2
CO- 5	3	2	2	3	2	2	2	-	-	2	2	2	2	3	2
Avg	3	2.5	2.6	2.8	2.6	2.5	2.2	3	2.33	2.6	2.8	2	2.6	3	2.4

Overall Average between COs & POs = 2.57

Overall Average between COs & PSOs = 2.67

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

**Course code and Name: 2.6 Marketing Management** 

	PO-	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-								
	1	2	3	4	5	6	7	8	9	10	11	12	1	-	3
CO- 1	3	2	3	3	3	3	3	3	3	3	3	3	3	2	3
CO- 2	3	3	3	3	2	2	2	2	3	3	3	3	2	3	3
CO- 3	3	2	3	3	3	2	3	2	3	2	3	3	3	3	3
CO- 4	3	3	3	3	2	3	2	2	3	2	2	3	3	3	3
CO- 5	3	3	2	2	2	3	2	2	2	2	2	2	3	2	2
Avg	3	2.6	2.8	2.8	2.4	2.6	2.4	2.2	2.8	2.4	2.6	2.8	2.8	2.6	2.8

Overall Average between COs & POs = 2.62

Overall Average between COs & PSOs = 2.73

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.



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#### **Course code and Name: 2.7 Production and Operations Management**

	PO-	PO-8	PO-	PO-10	РО-	PO-	PSO-	PSO-	PSO-						
	1	2	3	4	5	6	7		9		11	12	1	2	3
CO- 1	3	3	3	3	3	-	3	3	3	2	3	2	3	2	3
CO- 2	3	3	2	3	2	3	2	3	2	3	2	3	3	3	3
CO- 3	2	3	2	3	3	3	2	3	2	3	2	3	3	3	3
CO- 4	2	3	2	3	3	3	2	3	3	2	2	3	3	3	3
CO- 5	3	2	3	2	3	3	3	2	3	2	2	2	3	2	2
Avg	2.6	2.8	2.4	2.8	2.8	3	2.4	2.8	2.6	2.4	2.2	2.3	3	2.6	2.8

Overall Average between COs & POs = 2.59

Overall Average between COs & PSOs = 2.80

2021-2022 I YEAR – MBA – II SEM

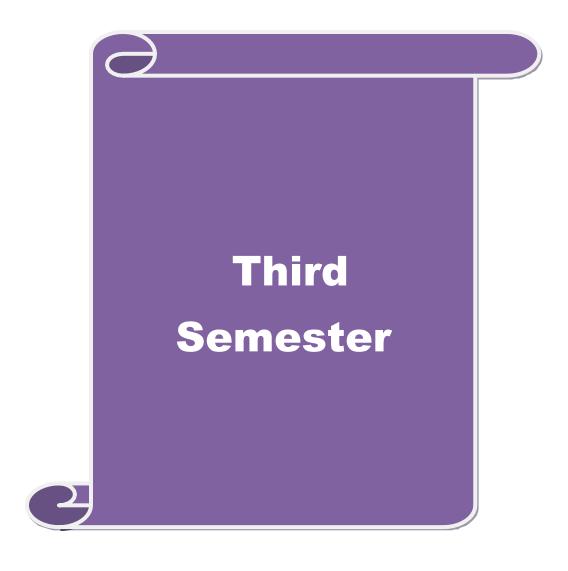
COs				MAPPING (Cos &PSos)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO- 7	PO-8	PO-9	PO-10	PO-11	PO- 12	PSO-1	PSO-2	PSO-3
2.1	2.6	2.6	3	2.6	2.8	2.6	2.4	2.8	2.6	2.6	2.6	2.6	2.4	2.8	2.6
2.2	2.8	2.6	3	2.6	3	3	2.4	2	2	2.4	3	2.6	3	2.8	2.2
2.3	2.6	2.6	3	2.6	2.8	2.4	2.6	2.2	2.6	2.6	3	2.4	2.4	3	2.8
2.4	2.4	2.6	3	2.6	2.4	2.4	2.4	2.8	2.4	2.8	2.4	3	2.4	3	2.6
2.5	3	2.5	2.6	2.8	2.6	2.5	2.2	3	2.33	2.6	2.8	2	2.6	3	2.4
2.6	3	2.6	2.8	2.8	2.4	2.6	2.4	2.2	2.8	2.4	2.6	2.8	2.8	2.6	2.8
2.7	2.6	2.8	2.4	2.8	2.8	3	2.4	2.8	2.6	2.4	2.2	2.3	3	2.6	2.8
Avg	2.71	2.61	2.82	2.68	2.68	2.65	2.4	2.54	2.47	2.54	2.65	2.52	2.65	2.82	2.60

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# **Semester III**

Course code and Name: 3.1 Strategic Management & Business Policy

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO-1	3	3	-	3	3	3	2	2	2	2	3	3	3	3	3
CO-2	3	2	3	2	3	3	2	3	3	3	•	-	2	3	3
CO-3	3	2	3	3	3	3	2	3	3	3	3	3	3	2	3
CO-4	2	3	-	3	2	3	2	2	3	3	3	2	2	3	3
CO-5	2	3	3	3	2	2	3	2	2	2	3	2	2	2	2
Avg	2.6	2.6	3	2.8	2.6	2.8	2.2	2.4	2.6	2.6	3	2.5	2.4	2.6	2.8

Overall Average between COs & POs = 2.64

Overall Average between COs & PSOs = 2.60

Levels: 1 = L1 - Remembering, 2 = L2 - Understanding, 3 = L3 - Applying, 4 = L4 -

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

Course code and Name: 3.2 DSS & MIS

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO-	PO- 8	PO-	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO-1	3	3	2	3	3	2	2	-	-	3	2	3	3	2	2
CO-2	3	3	3	3	3	2	3	-	-	3	3	3	3	2	3
CO-3	3	3	3	3	3	2	3	-	-	3	3	3	3	3	3
CO-4	3	2	3	3	3	3	3	-	3	2	3	2	3	3	3
CO-5	3	2	2	2	3	3	2	3	3	2	3	2	3	3	3
Avg	3	2.6	2.6	2.8	3	2.4	2.6	3	3	2.6	2.8	2.6	3	2.6	2.8

Overall Average between COs & POs = 2.75

Overall Average between COs & PSOs = 2.80

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.



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#### Course code and Name: 3.3 Business Ethics & Corporate Governance

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO- 2	PSO-
CO-1	3	2	3	2	2	2	3	2	2	2	3	2	3	2	2
CO-2	3	2	3	2	2	3	3	3	2	2	3	3	2	3	3
CO-3	3	2	3	3	2	3	3	3	2	2	3	3	3	2	3
CO-4	3	2	3	3	3	3	3	3	2	2	3	2	3	2	3
CO-5	3	3	3	3	3	2	2	3	3	3	2	2	2	3	3
Avg	3	2.2	3	2.6	2.4	2.6	2.8	2.8	2.2	2.2	2.8	2.4	2.6	2.4	2.8

Overall Average between COs & POs = 2.58

Overall Average between COs & PSOs = 2.60

Levels: 1 = L1 - Remembering, 2 = L2 - Understanding, 3 = L3 - Applying, 4 = L4 -

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

#### Course code and Name: 3.4. F. International Financial Management

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO-1	3	2	3	2	2	3	2	3	2	2	3	2	3	2	3
CO-2	3	3	3	3	3	3	2	3	2	3	3	2	3	3	3
CO-3	3	3	3	3	3	3	2	3	3	3	2	2	3	3	3
CO-4	3	3	3	2	3	2	3	3	2	3	2	2	3	3	3
CO-5	3	2	2	2	2	2	3	2	2	2	2	2	3	2	2
Avg	3	2.6	2.8	2.4	2.6	2.6	2.4	2.8	2.2	2.6	2.4	2	3	2.6	2.8

Overall Average between COs & POs = 2.53

Overall Average between COs & PSOs = 2.8



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#### Course code and Name: 3.4.HR. Management of Industrial Relations

	PO-	PSO-	PSO-	PSO-											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1	3	3	2	3	2	-	3	2	2	2	3	3	3	3	3
CO-2	3	3	3	3	3	-	2	2	3	3	3	3	2	3	3
CO-3	3	3	3	2	3	-	2	2	3	3	3	2	2	3	3
CO-4	2	3	3	3	2	-	2	2	3	3	3	2	2	3	3
CO-5	3	3	2	2	2	-	2	2	3	2	3	2	2	3	2
Avg	2.8	3	2.6	2.6	2.4	-	2.2	2	2.8	2.6	3	2.4	2.2	3	2.8

Overall Average between COs & POs = 2.58

Overall Average between COs & PSOs = 2.66

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

#### Course code and Name: 3.5.F .Security Analysis and Investment Management

	PO-	PSO-	PSO-	PSO-											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO- 1	3	3	-	2	3	-	-	-	3	-	-	2	3	2	3
CO- 2	3	3	-	3	2	-	-	-	3	-	-	3	3	3	3
CO- 3	3	3	-	3	3	-	-	-	3	-	-	3	3	3	3
CO- 4	3	2	3	3	3	-	-	-	3	-	-	3	3	3	3
CO- 5	3	2	3	2	2	-	-	-	2	-	-	2	2	2	2
Avg	3	2.6	3	2.6	2.6	-	-	-	2.8	-	-	2.6	2.8	2.6	2.8

Overall Average between COs & POs = 2.74

Overall Average between COs & PSOs = 2.73



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#### Course code and Name: 3.5.HR Management Training & Development

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO-	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	3	2	2	-	-	3	-	2	-	3	2	3	3	2
CO- 2	3	3	2	2	-	-	3	-	3	-	3	3	3	3	3
CO-	3	3	3	2	-	-	3	-	3	-	3	3	3	3	3
CO- 4	3	2	3	2	-	-	3	-	3	-	3	3	2	3	3
CO- 5	3	2	2	2	-	-	2	-	2	-	3	2	2	2	2
Avg	3	2.6	2.4	2.6	-	-	2.8	-	2.6	-	3	2.6	2.6	2.8	2.6

Overall Average between COs & POs = 2.70

Overall Average between COs & PSOs = 2.66

Levels: 1 = L1 – Remembering, 2 = L2 – Understanding, 3 = L3 – Applying, 4 = L4 –

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

2022-2023 II YEAR – MBA – III SEM

COs				N	MAPF	PING	(Cos	& Pos	)				M	APPIN	<b>IG</b>
													(Co	os &PS	os)
	PO-1	PO-	PO-3	PO-4	PO-	PO-	PO-	PO-	PO-	PO-10	PO-11	PO-	PSO-1	PSO-2	PSO-3
		2				12									
3.1	2.6	2.6	3	2.8	2.6	2.8	2.2	2.4	2.6	2.6	3	2.5	2.4	2.6	2.8
3.2	3	2.6	2.6	2.8	3	2.4	2.6	3	3	2.6	2.8	2.6	3	2.6	2.8
3.3	3	2.2	3	2.6	2.4	2.6	2.8	2.8	2.2	2.2	2.8	2.4	2.6	2.4	2.8
3.4F	3	2.6	2.8	2.4	2.6	2.6	2.4	2.8	2.2	2.6	2.4	2	3	2.6	2.8
3.4H	2.8	3	2.6	2.6	2.4	-	2.2	2	2.8	2.6	3	2.4	2.2	3	2.8
3.5F	3	2.6	3	2.6	2.6	-	-	-	2.8	-	-	2.6	2.8	2.6	2.8
3.5H	3	2.6	2.4	2.6	-	-	2.8	-	2.6	-	3	2.6	2.6	2.8	2.6
Avg	2.91	2.6	2.77	2.62	2.6	2.6	2.5	2.6	2.6	2.52	2.83	2.44	2.65	2.65	2.77

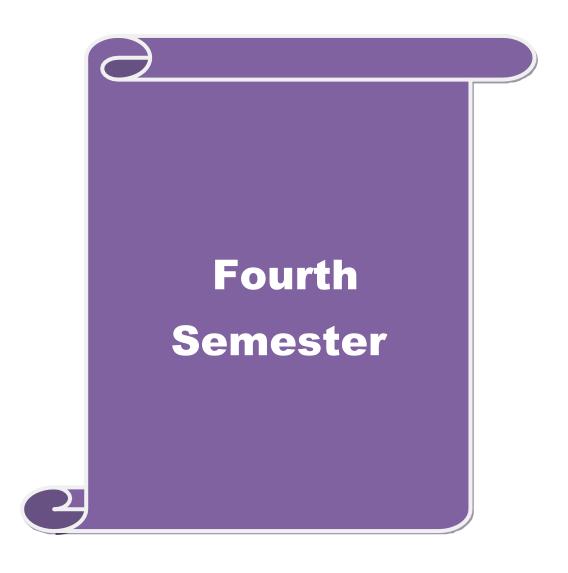
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#### Semester IV

Course code and Name: 4.1 Business Analytics

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO-	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO- 1	PSO-	PSO-
CO-	3	-	-	2	2	-	3	3	-	-	3	2	2	3	3
CO-	3	2	-	2	2	2	3	2	-	-	3	3	3	3	3
CO-	3	3	3	2	3	3	2	3	-	-	2	3	3	3	2
CO-	3	2	3	2	2	2	3	3	-	-	2	3	3	3	2
CO- 5	3	3	3	3	3	3	3	2	-	-	3	2	2	3	3
Avg	3	2.5	3	2.2	2.4	2.5	2.8	2.6	-	-	2.6	2.6	2.6	3	2.6

Overall Average between COs & POs = 2.62

Overall Average between COs & PSOs = 2.73

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

Course code and Name: 4.2 Knowledge Management

	PO- 1	PO- 2	PO- 3	PO-	PO- 5	PO- 6	PO-	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	2	2	3	3	-	2	2	2	3	2	2	3	3	3
CO- 2	3	3	2	3	3	2	3	2	3	3	2	2	2	3	3
CO- 3	3	2	3	2	2	3	3	3	3	3	3	3	2	2	3
CO- 4	3	3	3	2	2	3	3	3	3	2	2	3	3	3	2
CO- 5	3	2	3	3	3	2	2	2	3	2	2	3	2	3	3
Avg	3	2.4	2.6	2.6	2.6	2.5	2.6	2.4	2.8	2.6	2.2	2.6	2.4	2.8	2.8

Overall Average between COs & POs = 2.57

Overall Average between COs & PSOs = 2.66

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.



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#### Course code and Name: 4.3 Global Business

	PO-	PSO-	PSO-	PSO-											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1	3	3	2	3	3	-	3	2	3	2	3	2	3	3	2
CO-2	3	3	3	3	3	-	3	3	3	3	3	2	3	3	3
CO-3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO-4	2	3	3	2	3	-	-	3	3	2	2	3	3	3	3
CO-5	2	2	2	2	2	3	2	2	3	2	2	2	2	2	3
Avg	2.6	2.8	2.6	2.6	2.8	3	2.5	2.6	3	2.4	2.6	2.4	2.8	2.6	2.8

Overall Average between COs & POs = 2.65

Overall Average between COs & PSOs = 2.73

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

#### Course code and Name: 4.4.(HR) International Human Resource Management

	PO-	PO- 2	PO- 3	PO- 4	PO- 5	PO-	PO-	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	2	2	3	-	3	2	3	3	2	2	2	3	3	2
CO- 2	3	2	2	2	-	3	3	2	3	3	2	2	3	3	3
CO- 3	3	2	2	2	-	2	2	3	3	3	2	2	2	3	2
CO- 4	3	3	2	2	-	3	2	3	2	3	3	3	2	3	3
CO- 5	3	2	3	3	-	2	3	2	3	2	3	3	2	3	3
Avg	3	2.2	2.2	2.4	-	2.6	2.4	2.6	2.8	2.6	2.4	2.4	2.4	3	2.6

Overall Average between COs & POs = 2.74

Overall Average between COs & PSOs = 2.67



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#### Course code and Name: 4.5.F. Management of Financial Services

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	3	2	3	3	3	3	2	2	2	2	2	2	2	3	3
CO- 2	3	3	3	3	2	3	3	2	3	2	3	2	2	3	3
CO- 3	3	2	3	2	3	3	2	3	2	2	3	3	3	2	3
CO- 4	3	3	2	2	3	3	3	2	3	2	3	2	3	2	2
CO- 5	2	3	2	3	2	2	2	2	2	3	3	3	3	3	3
Avg	2.8	2.6	2.6	2.6	2.6	2.8	2.4	2.2	2.4	2.2	2.8	2.4	2.6	2.6	2.8

Overall Average between COs & POs = 2.53

Overall Average between COs & PSOs = 2.66

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

Course code and Name: 4.5 (HR) Compensation Management

	PO-	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-							
CO-	-	2	-	-	5	2	3	2	2	-	3	3	3	3	2
CO-	-	3	-	-	-	3	3	2	3	-	3	2	2	3	3
CO- 3	3	2	-	-	-	3	3	3	3	-	2	3	3	3	3
CO- 4	3	3	-	-	-	3	3	2	3	-	3	3	3	2	3
CO- 5	3	2	-	-	-	2	2	2	2	-	2	3	2	3	2
Avg	3	2.4	-	-	-	2.6	2.8	2.2	2.6	-	2.6	2.8	2.6	2.8	2.6

Overall Average between COs & POs = 2.62

Overall Average between COs & PSOs = 2.67



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#### Course code and Name: 4.6.F. Corporate Taxation

	PO-	PSO-	PSO-	PSO-											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1	3	2	3	3	2	-	-	-	3	•	-	2	3	3	2
CO-2	•	3	3	3	3	-	-	-	3	•	-	3	2	3	2
CO-3	3	2	3	2	3	-	-	-	3	-	-	3	3	3	3
CO-4	3	2	3	3	2	-	-	-	2	-	-	2	2	2	3
CO-5	3	3	2	2	3	-	-	-	2	-	-	2	3	3	2
Avg	3	2.4	2.8	2.6	2.6	-	-	-	2.6	•	-	2.4	2.6	2.8	2.4

Overall Average between COs & POs = 2.62

Overall Average between COs & PSOs = 2.60

Analyzing, 5 = L5 - Evaluating, 6 = L6 - Creating.

Course code and Name: 4.6 (HR) HRD Strategy & Systems

	PO- 1	PO- 2	PO- 3	PO- 4	PO- 5	PO- 6	PO- 7	PO- 8	PO- 9	PO- 10	PO- 11	PO- 12	PSO-	PSO-	PSO-
CO- 1	2	3	3	2	3	-	3	2	3	3	2	3	3	3	2
CO- 2	3	3	3	3	3	-	2	3	3	3	3	3	3	3	3
CO- 3	3	3	3	3	2	-	2	3	3	3	3	2	3	3	3
CO- 4	3	3	2	3	2	-	2	3	2	3	3	2	2	3	3
CO- 5	2	3	2	3	2	-	2	2	2	2	2	2	2	3	2
Avg	2.6	3	2.6	2.8	2.4	-	2.2	2.6	2.6	2.8	2.6	2.4	2.6	3	2.6

Overall Average between COs & POs = 2.60

Overall Average between COs & PSOs = 2.73



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### 2022-2023 II YEAR - MBA - IV SEM

COs		MAPPING (Cos & Pos)											MAPPING (Cos &PSos)		
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO- 12	PSO-1	PSO-2	PSO-3
4.1	3	2.5	3	2.2	2.4	2.5	2.8	2.6	-	-	2.6	2.6	2.6	3	2.6
4.2	3	2.4	2.6	2.6	2.6	2.5	2.6	2.4	2.8	2.6	2.2	2.6	2.4	2.8	2.8
4.3	2.6	2.8	2.6	2.6	2.8	3	2.5	2.6	3	2.4	2.6	2.4	2.8	2.6	2.8
4.4H	3	2.2	2.2	2.4	-	2.6	2.4	2.6	2.8	2.6	2.4	2.4	2.4	3	2.6
4.5F	2.8	2.6	2.6	2.6	2.6	2.8	2.4	2.2	2.4	2.2	2.8	2.4	2.6	2.6	2.8
4.5H	3	2.4	-	-	-	2.6	2.8	2.2	2.6	-	2.6	2.8	2.6	2.8	2.6
4.6F	3	2.4	2.8	2.6	2.6	-	-	-	2.6	-	-	2.4	2.6	2.8	2.4
4.6H	2.6	3	2.6	2.8	2.4	-	2.2	2.6	2.6	2.8	2.6	2.4	2.6	3	2.6
Avg	2.87	2.53	2.62	2.54	2.57	2.66	2.52	2.45	2.68	2.52	2.54	2.5	2.57	2.82	2.65



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# ATTAINMENT OF PHYSICS COURSE OUTCOMES DIRECT ATTAINMENT ASSESMENT PROCESS

Level of	f Attainment	Target Levels of CO Attainment for Continuous Internal Assessment (CIA)  Threshold value for Internal Assessment = 70%×25 M = 18 Marks	Target Levels of CO Attainment for Semester External Assessment (SEE) Threshold value for External Assessment = 50% = 0.50×75 M = 38 Marks
3	High	70% and above of students scoring 18 or more marks	70% and above of students scoring 38 or more marks
2	Moderate	60% - 69% of students scoring 18 or more marks	60% - 69% of students scoring 38 or more marks
1	Low	50% - 59% of students scoring 18 or more marks	50% - 59% of students scoring 38 or more marks
0	Not Applicable	Below 50% of students scoring 18 or more marks	Below 50% of students scoring 38 or more marks

			Depa	rtment o	f Physic	es (UG)						
	Batch: 2023-2024 Program:  Academic Year: 2023-2024 MPCs				Semest		Paper : VI					
	rse Name:Low Refrigeration	Temper	ature Physics	Course Teacher : N. Sri Harika								
						Internal Ma	arks (25)			External		
S. No	Regd. No	St	udent Name	I Mid II Mid Exam Best of I&II Mid Exam Exam				Attenda nce/Sem inars	Tot al	Marks (75)		
1	Y213158079	A.Bles	sy	14	12	14	4	4	22	45		
2	Y213158081	A.Blase	eena	AB	13	13	5	5	23	57		
3	Y213158082	A.Palla	vi	15	12	15	5	5	25	58		
4	Y213158083	B.Rem	ya	15	15	15	5	5	25	49		
5	Y213158084	B.Srava	ani Bai	10	12	12	3	4	19			
6	Y213158085	B.Tulas	si	11	05	11	4	0	15	52		
7	Y213158086	B.Manj	usha	13	13	13	5	5	23	66		
8	Y213158087	B.Vasa	vi	11	AB	11	5	5	21	37		
9	Y213158088	B.Keer	thi	11	07	11	4	4	19	45		
10	Y213158089	B.Saila	ja	08 AB 08			4	5	17	55		
11	Y213158090	Ch.Vais	shnavi	15 15 15 5 5 25 62					62			
12	Y213158091	Ch.Vija	ıyadurga	15	14	15	4	5	24	71		
13	Y213158093	Ch.Sasi	Rekha	13 14 14 5 5 24 43					43			



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14	Y213158094	Ch.Komali Divya	11	10	11	4	4	19	35
15	Y213158095	D.Akanksha	10	12	12	4	5	21	52
16	Y213158096	K.Durga Bhavani	11	09	11	4	0	15	19
17	Y213158097	D.Harika	10	13	13	5	4	22	
18	Y213158098	E.Harika	13	14	14	4	5	23	
19	Y213158099	G.Prasanna	15	14	15	3	5	23	56
20	Y213158100	G.Anitha bai	15	14	15	4	0	19	55
21	Y213158101	G.Naga Durga	10	AB	10	0	0	10	23
22	Y213158102	G.Madhavi	14	14	14	5	4	23	45
23	Y213158103	H.Ramya Bai	15	14	15	5	5	25	55
24	Y213158104	J.Sravani Sandhya	08	05	08	4	4	16	35
25		•							22
	Y213158105	J.Naga Malleswari	10	14	14	0	5	19	
26	Y213158106	K.Koteswari	14	14	14	4	4	22	49
27	Y213158107	K.Sowmya	01	AB	01	4	0	05	02
28	Y213158108	K.Divya	09	12	12	5	5	22	58
29	Y213158109	K.Mounika	11	12	12	5	5	22	47
30	Y213158110	K.Prema Jyothi	11	11	11	4	4	19	33
31	Y213158111	K.Sireesha	11	07	11	5	4	20	61
32	Y213158112	K.Amulya	06	06	06	5	5	16	41
33	Y213158113	K.Lakshmi Pavani	14	14	14	5	5	24	66
34	Y213158114	K.Sowjanya	11	08	11	4	5	20	41
35	Y213158115	K.Jeevanapriya	15	12	15	0	5	20	50
36	Y213158116	K.Naga Lakshmi	09	06	09	5	5	19	36
37	Y213158117	M.Lakshmi Durga	11	13	13	4	5	22	38
38	Y213158118	M.Sandhya	08	08	08	5	5	18	17
39	Y213158119	M.Divya	15	15	15	5	0	20	60
40	Y213158121	M.Blessy	08	14	14	5	4	23	36
41	Y213158122	N.Sri Lakshmi	04	06	06	4	4	14	22 .
42	Y213158123	N.Prasanna	10	05	10	3	4	17	18
43	Y213158124	N.Sameeksha	08	07	08	3	0	11	17
44	Y213158125	N.Sruthi	15	12	15	5	5	25	56
45		P.Chamundeshwari							50
	Y213158126	Devi	09	13	13	5	5	23	
46	Y213158127	P.Sindhuja	AB	10	10	3	0	13	34
47	Y213158128	P.Keerthi	14	14	14	5	5	24	63
48	Y213158129	R.Hyma Krishnaveni	12	AB	12	5	5	22	68
50	Y213158130	R.Lalitha	07	14	14	4	4	22	38
51	Y213158131 Y213158132	R.Rajini R.Sravani	11	13	13	5	5	23	64
	1213130132	IX.SIavalli	13	15	15	4	5	24	48

# Grand Bank

#### ST. ANN'S COLLEGE FOR WOMEN

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1									
52	Y213158133	Sk.Sakeena	14	13	14	5	5	24	51
53	Y213158134	Sk.Haseena	15	14	15	5	0	20	41
54	Y213158135	Sk.Noorjahan	08	AB	08	0	0	08	31
55	Y213158136	Sk.Shannu	09	07	09	3	4	16	50
56									
36	Y213158137	S.Veda Phani Sri	09	15	15	5	5	25	37
57	Y213158138	S.Sanjana	14	14	14	5	0	19	60
58	Y213158139	T.Hemalatha	08	14	14	0	0	14	56
59	Y213158141	T.Gowthami	14	14	14	5	5	24	58
60	Y213158142	V.Githika	13	15	15	0	5	20	48
61	Y213158143	V.Anusha	09	AB	09	4	0	13	30
62	Y213158144	V.Priyanka	11	14	14	5	5	24	59
63	Y213158145	V.Koteswari	10	08	10	3	4	17	55

#### **Attainment Analysis**

	Internal	External
Total Number of Students Registered for the Examination	63	63
Total Number of Students Absent for the Examination	Nil	NIL
Total Number of Students Appeared for the Examination	63	63
Number of Students with Score	≥18 Marks	≥ 38 Marks
Number of Students with Score	49	46
Percentage of Students Scoring	77%	73%
Direct attainment level of the Course	3	3

#### For CIA:-

CO Attainment (Direct)=Number of Students withScore ≥ 18 Marks

Total Number of Students

$$=\underline{49}$$
 =77% = 3

#### For SEE:-

CO Attainment (Direct)= Number of Students withScore ≥ 38 Marks

**Total Number of Students** 

$$=$$
 $\frac{46}{63}$  $=$ 73%  $=$  3

Therefore, Overall Course Direct Attainment =  $(0.25\times3) + (0.75\times3) = 3$  = Attained Level.

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Gorantia, Guntur-522 034.



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#### **Department of Statistics (UG)**

D	ot-1 2021 202			ent of Statistics (UG)							
	atch: 2021-202 emic Year:2023-		Programme:B.Sc - MSCs		Semes	ter :V		P	aper :	VI	
Cour	se Name :Opera	tions F	Research - I	Course	Teacher	:Mrs. G.	Vijaya	Lakshmi			
			,	Internal Marks (25)						External	
S. No	Regd. No	Stude	ent Name	I Mid Exam	II Mid Exam	Best of I & II Mid Exam	Assi gnm ents	Atten dance/ Semin ars	Total	Marks (75)	
1	Y213158146	Akki	Akkilagunta.Priyanka		11	14	5	5	24	40	
2	Y213158147	Ala.I	Ala.Kalpana		10	15	5	5	25	45	
3	Y213158148	Ala.I	Kavya	15	13	15	5	5	25	60	
4	Y213158149	Allac	di.Srilatha	AB	AB	AB	AB	AB	AB	AB	
5	Y213158150	Bank	ca.Esther Rani	15	13	15	5	5	25	50	
6	Y213158151	Bare	ddy.Sravani	15	10	15	5	5	25	40	
7	Y213158152	Battl	nula.Sravani	13	10	13	5	5	23	35	
8	Y213158156	Burr	a.BhanuChandrika	15	14	15	5	5	25	50	
9	Y213158157	Cher	ukuri.Priya	15	05	15	5	5	25	50	
10	Y213158158	Chila	aka.Sowmya	14	09	14	5	5	24	40	
11	Y213158159	Chin	thabattina.ManjuPriya	15	15	15	5	5	25	50	
·12	Y213158160	Dara	la.LakshmiDurga	15	15	15	5	5	25	60	
13	Y213158161	Dom	ala.Alekhya	14	13	14	5	5	24	50	
14	Y213158162	Dunc	di.Sumalatha	15	12	15	5	5	25	60	
15	Y213158163	Enin	nireddy.Renuka	15	12	15	5	5	25	30	
16	Y213158164	Gado	le.Kavya	15	13	15	5,	5	25	30	
17	Y213158165	Gade	e.ManeeshaJyothi	10	10	10	5	5	20	30	
18	Y213158166	Gara	pati.Sushma	14	15	15	5	5	25	30	
19	Y213158167	Gogi	ula.Siva Naga Lakshmi	15	07	15	5	5	25	30	
20	Y213158168	Gudi	pudi.Kavitha	14	09	14	5	5	24	30	
21	Y213158169	Gugi	ulothu.Vijaya Lakshmi	15	15	15	5	5	25	46	



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4	1	,							
22	Y213158170	Gunjari.Sravanthi	15	14	15	5	5	25	34
23	Y213158171	Imadabathini.Lavanya	13	15	15	5	5	25	30
24	Y213158172	Jonnalagadda. Jyothirmai	14	10	14	5	5	24	43
25	Y213158173	Jyothi. Vijaya Lakshmi	14	10	14	5	5	24	44
26	Y213158174	Kalam.Pavithra	13	12	13	5	5	23	30
27	Y213158175	Kamatham.Iswarya	15	AB	15	5	5	25	58
28	Y213158176	Kanatharapu.Mounika	15	15	15	5	5	25	65
29	Y213158177	Kancharla.Sushma	15	15	15	5	5	25	65
<u>-3</u> 0	Y213158178	Kocherla.Indira	13	AB	13	5	5	23	46
31	Y213158179	Kokku.Hrudayapani	13	14	14	5	5	24	65
32	Y213158180	K.DivyaSnehitha	14	15	15	5	5	25	47
33	Y213158182	Kotagiri.NagaLalitha Devi	07	12	12	5	5	22	37
34	Y213158183	Kuchipudi.Mary Gold	15	15	15	5	5	25	48
35	Y213158184	Kudumula.AnandaJyothi	15	09	15	5	5	25	46
36	Y213158185	Kuppala.Kavya	15	10	15	5	5	25	60
37	Y213158186	Maguluri.Nandini	15	10	15	5	5	25	65
38	Y213158187	M.LakshmiThirupathamma	15	14	15	5	5	25	63
39	Y213158189	Medisetty.Harika	15	15	15	5	5	25	63
40	Y213158190	Modugula.Sai Reddy	15	15	15	5	5	25	60
41	Y213158191	Mohammed.RaisaKousar	15	15	15	5	5	25	60
42	Y213158192	Mudraboina.NagaSindu	15	15	15	5	5	25	60
43	Y213158193	Mutyam.Sai Lakshmi	AB	15	15	5	5	25	59
44	Y213158194	Nagella.Hema Latha	14	15	15	5	5	25	59
45	Y213158195	Namathoti.Supriya	14	14	14	5	5	24	72
46	Y213158196	Neeladri.Mounika	13	13	13	5	5	23	69
47	Y213158197	Nosina. Yerusha	15	15	15	5	5	25	74
48	Y213158198	Pagilla.Lakshmi	14	15	15	5	5	25	74
49	Y213158199	Pagolu.Sri Naga Durga	15	15	15	5	5	25	71



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50	Y21315820	Patcha.Preethi	15	15	15	5	5	25	73	
51	Y21315820	02 Peddi.Harika	15	15	15	5	5	25	74	
52	Y21315820	O3 Puli.Naga Sri	15	15	15	5	5	25	74	
53	Y21315820	04 Raja.Komali	15	15	15	5	5	25	74	
54	Y21315820	05 Ravuri.SriLekha	14	15	15	5	5	25	73	
55	Y21315820	06 Shaik.Asha Shiny	13	15	15	5	5	25	69	
56	Y21315820	7 Shaik.Reshu	15	09	15	5	5	25	69	
57	Y21315820	8 Sripalasetty.Niharika	15	AB	15	5	4	24	73	
<u>5</u> 8	Y21315820	9 Tadigiri.Keerthi	15	12	15	5	5	25	74	
59	Y21315821	0 Talasila.Devayani	15	15	15	5	5	25	73	
60	Y21315821	2 Thumati.Rajeswari	15	15	15	5	5	25	75	
61	Y21315821	3 Vadithe.JyothiBai	AB	15	15	5	5	25	73	
62	Y21315821	4 Varagani.Devi	13	10	13	5	5	23	73	
63	Y21315821	5 Vemu.Ahalya	15	15	15	5	5	25	72	
64	Y21315821	6 Yadavalli.Sowjanya	13	15	15	5	5	25	58	

**Attainment Analysis** 

1xttainment Analysis		
	Internal	External
Total Number of Students Registered for the Examination	64	64
otal Number of Students Absent for the Examination	01	01
Total Number of Students Appeared for the Examination	63	63
Number of Students with Score	≥18 Marks	≥38 Marks
	63	52
Percentage of students scoring	100%	83%
Direct attainment level of the Course	3	3

Over all CO Attainment= 25% of CIA +75% of SEE =  $(0.25 \times 3)+(0.75 \times 3) = 0.75 +2.25 = 3$ 



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### Department of Statistics (UG)

	Batch: 2021-202 demic Year:2023		Programme: B.Sc - MSCs		Semest	ter : V		Pa	aper :	VII
	rse Name :Opera			Course	Teacher	:Dr.J.Pra	itapa R	eddy		
				Internal Marks (25)						
S. No	Regd. No	Stude	nt Name	I Mid Exam	II Mid Exam	Best of I & II Mid Exam	Assi gnm ents	Atten dance/ Semin ars	Total	External Marks (75)
1	Y213158146	Akkil	agunta.Priyanka	12	09	12	4	4	20	57
2	Y213158147	Ala.K	alpana	14	10	14	5	5	24	73
3	Y213158148	Ala.K	avya	15	12	15	5	5	25	70
4	Y213158149	Alladi	i.Srilatha	AB	AB	AB	AB	AB	AB	AB
5	Y213158150	Banka	a.Esther Rani	14	12	14	4	5	23	65
6	Y213158151	Bared	dy.Sravani	11	13	13	4	4	21	62
7	Y213158152	Batthı	ıla.Sravani	09	13	13	4	4	21	56
8	Y213158156	Burra	Bhanu Chandrika	13	15	15	5	5	25	64
9	Y213158157	Cheru	kuri.Priya	15	09	15	5	4	24	65
10	Y213158158	Chilal	ca.Sowmya	10	13	13	4	4	21	57
11	Y213158159	Chintl	habattina.Manju Priya	13	10	13	5	4	22	67
12	Y213158160	Darala	a.Lakshmi Durga	10	15	15	5	5	25	73
13	Y213158161	Doma	la.Alekhya	14	10	14	5	5	24	72
14	Y213158162	Dundi	.Sumalatha	14	12	14	5	5	24	74
15	Y213158163	Enimi	reddy.Renuka	12	12	12	4	4	20	69
16	Y213158164	Gadde	.Kavya	14	11	14	4	2	20	73
17	Y213158165	Gade.	Maneesha Jyothi	10	11	11	4	3	18	64
18	Y213158166	Garap	ati.Sushma	11	15	15	5	5	25	69
19	Y213158167	Gogul	a.Siva Naga Lakshmi	03	09	09	4	5	18	73
20	Y213158168	Gudip	udi.Kavitha	10	14	14	5	5	24	69
21	Y213158169	Gugul	othu.Vijaya Lakshmi	14	13	14	5	5	24	66
22	Y213158170	Gunja	ri.Sravanthi	14	14	14	5	5	24	61



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	- 1								J
23	Y213158171	Imadabathini.Lavanya	09	11	11	4	5	20	50
24	Y213158172	Jonnalagadda.Jyothirmai	12	05	12	4	5	21	48
25	Y213158173	Jyothi. Vijaya Lakshmi	14	09	14	4	4	22	66
26	Y213158174	Kalam.Pavithra	AB	12	12	4	4	20	47
27	Y213158175	Kamatham.Iswarya	14	15	15	5	5	25	69
28	Y213158176	Kanatharapu.Mounika	14	15	15	5	5	25	73
29	Y213158177	Kancharla.Sushma	13	13	13	5	5	23	72
30	Y213158178	Kocherla.Indira	07	11	11	4	2	17	62
1	Y213158179	Kokku.Hrudayapani	12	13	13	5	5	23	75
32	Y213158180	K.Divya Snehitha	10	09	10	4	2	16	48
33	Y213158182	Kotagiri Naga Lalitha Devi	10	10	10	4	5	19	50
34	Y213158183	Kuchipudi.Mary Gold	10	13	13	5	5	23	68
35	Y213158184	Kudumula. Ananda Jyothi	12	AB	12	5	2	19	49
36	Y213158185	Kuppala.Kavya	14	10	14	5	5	24	68
37	Y213158186	Maguluri.Nandini	14	10	14	5	5	24	49
38	Y213158187	M.LakshmiThirupathamma	11	12	12	5	5	22	55
39	Y213158189	Medisetty.Harika	11	15	15	5	5	25	73
40	Y213158190	Modugula.Sai Reddy	12	15	15	5	5	25	68
41	Y213158191	Mohammed.Raisa Kousar	13	15	15	5	5	25	73
42	Y213158192	Mudraboina.Naga Sindu	12	13	13	5	5	23	62
43	Y213158193	Mutyam.Sai Lakshmi	13	13	13	5	5	23	66
44	Y213158194	Nagella.Hema Latha	07	13	13	4	5	22	66
45	Y213158195	Namathoti.Supriya	12	11	12	5	5	22	66
46	Y213158196	Neeladri.Mounika	13	12	13	5	5	23	71
47	Y213158197	Nosina. Yerusha	11	10	11	4	4	19	65
48	Y213158198	Pagilla.Lakshmi	14	13	14	5	5	24	73
49	Y213158199	Pagolu.Sri Naga Durga	13	15	15	5	5	25	65
50	Y213158201	Patcha.Preethi	14	14	14	5	5	24	58



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								_
Y213158202	Peddi.Harika	15	15	15	5	5	25	75
Y213158203	Puli.Naga Sri	08	08	08	4	4	16	46
Y213158204	Raja.Komali	15	12	15	5	5	25	73
Y213158205	Ravuri.Sri Lekha	13	14	14	5	5	24	75
Y213158206	Shaik.Asha Shiny	08	12	12	4	5	21	59
Y213158207	Shaik.Reshu	15	13	15	5	5	25	75
Y213158208	Sripalasetty.Niharika	15	15	15	5	5	25	75
Y213158209	Tadigiri.Keerthi	12	08	12	4	5	21	58
Y213158210	Talasila.Devayani	15	15	15	5	5	25	75
Y213158212	Thumati.Rajeswari	13	14	14	5	5	24	71
Y213158213	Vadithe.Jyothi Bai	AB	15	15	5	5	25	68
Y213158214	Varagani .Devi	09	10	10	4	4	18	47
Y213158215	Vemu.Ahalya	14	14	14	5	5	24	75
Y213158216	Yadavalli.Sowjanya	12	09	12	5	4	21	42
	Y213158203 Y213158204 Y213158205 Y213158206 Y213158207 Y213158208 Y213158209 Y213158210 Y213158212 Y213158213 Y213158214 Y213158215	Y213158203 Puli.Naga Sri Y213158204 Raja.Komali Y213158205 Ravuri.Sri Lekha Y213158206 Shaik.Asha Shiny Y213158207 Shaik.Reshu Y213158208 Sripalasetty.Niharika Y213158209 Tadigiri.Keerthi Y213158210 Talasila.Devayani Y213158212 Thumati.Rajeswari Y213158213 Vadithe.Jyothi Bai Y213158214 Varagani .Devi Y213158215 Vemu.Ahalya	Y213158203       Puli.Naga Sri       08         Y213158204       Raja.Komali       15         Y213158205       Ravuri.Sri Lekha       13         Y213158206       Shaik.Asha Shiny       08         Y213158207       Shaik.Reshu       15         Y213158208       Sripalasetty.Niharika       15         Y213158209       Tadigiri.Keerthi       12         Y213158210       Talasila.Devayani       15         Y213158212       Thumati.Rajeswari       13         Y213158213       Vadithe.Jyothi Bai       AB         Y213158214       Varagani .Devi       09         Y213158215       Vemu.Ahalya       14	Y213158203       Puli.Naga Sri       08       08         Y213158204       Raja.Komali       15       12         Y213158205       Ravuri.Sri Lekha       13       14         Y213158206       Shaik.Asha Shiny       08       12         Y213158207       Shaik.Reshu       15       13         Y213158208       Sripalasetty.Niharika       15       15         Y213158209       Tadigiri.Keerthi       12       08         Y213158210       Talasila.Devayani       15       15         Y213158212       Thumati.Rajeswari       13       14         Y213158213       Vadithe.Jyothi Bai       AB       15         Y213158214       Varagani .Devi       09       10         Y213158215       Vemu.Ahalya       14       14	Y213158203       Puli.Naga Sri       08       08         Y213158204       Raja.Komali       15       12       15         Y213158205       Ravuri.Sri Lekha       13       14       14         Y213158206       Shaik.Asha Shiny       08       12       12         Y213158207       Shaik.Reshu       15       13       15         Y213158208       Sripalasetty.Niharika       15       15       15         Y213158209       Tadigiri.Keerthi       12       08       12         Y213158210       Talasila.Devayani       15       15       15         Y213158212       Thumati.Rajeswari       13       14       14         Y213158213       Vadithe.Jyothi Bai       AB       15       15         Y213158214       Varagani .Devi       09       10       10         Y213158215       Vemu.Ahalya       14       14       14	Y213158203       Puli.Naga Sri       08       08       4         Y213158204       Raja.Komali       15       12       15       5         Y213158205       Ravuri.Sri Lekha       13       14       14       5         Y213158206       Shaik.Asha Shiny       08       12       12       4         Y213158207       Shaik.Reshu       15       13       15       5         Y213158208       Sripalasetty.Niharika       15       15       15       5         Y213158209       Tadigiri.Keerthi       12       08       12       4         Y213158210       Talasila.Devayani       15       15       15       5         Y213158212       Thumati.Rajeswari       13       14       14       5         Y213158213       Vadithe.Jyothi Bai       AB       15       15       5         Y213158214       Varagani .Devi       09       10       10       4         Y213158215       Vemu.Ahalya       14       14       14       5	Y213158203       Puli.Naga Sri       08       08       4       4         Y213158204       Raja.Komali       15       12       15       5         Y213158205       Ravuri.Sri Lekha       13       14       14       5       5         Y213158206       Shaik.Asha Shiny       08       12       12       4       5         Y213158207       Shaik.Reshu       15       13       15       5       5         Y213158208       Sripalasetty.Niharika       15       15       15       5       5         Y213158209       Tadigiri.Keerthi       12       08       12       4       5         Y213158210       Talasila.Devayani       15       15       15       5       5         Y213158212       Thumati.Rajeswari       13       14       14       5       5         Y213158213       Vadithe.Jyothi Bai       AB       15       15       5       5         Y213158214       Varagani .Devi       09       10       10       4       4         Y213158215       Vemu.Ahalya       14       14       14       5       5	Y213158203       Puli.Naga Sri       08       08       08       4       4       16         Y213158204       Raja.Komali       15       12       15       5       25         Y213158205       Ravuri.Sri Lekha       13       14       14       5       5       24         Y213158206       Shaik.Asha Shiny       08       12       12       4       5       21         Y213158207       Shaik.Reshu       15       13       15       5       5       25         Y213158208       Sripalasetty.Niharika       15       15       15       5       5       25         Y213158209       Tadigiri.Keerthi       12       08       12       4       5       21         Y213158210       Talasila.Devayani       15       15       15       5       25         Y213158212       Thumati.Rajeswari       13       14       14       5       5       25         Y213158213       Vadithe.Jyothi Bai       AB       15       15       5       5       25         Y213158215       Vemu.Ahalya       14       14       14       5       5       24

#### **Attainment Analysis**

	Internal	External
Total Number of Students Registered for the Examination	64	64
otal Number of Students Absent for the Examination	01	01
Total Number of Students Appeared for the Examination	63	63
Number of Students with Score	≥18 Marks	≥38 Marks
	61	63
Percentage of students scoring	96.82%	100%
Direct attainment level of the Course	3	3

Over all CO Attainment= 25% of CIA +75% of SEE =  $(0.25 \times 3) + (0.75 \times 3) = 0.75 + 2.25 = 3$ 



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**Metric** – **2.6.2** 

**Criterion: II** 

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2.6.2

**Attainment Analysis of COs with POs and PSOs** 

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**Criterion: II** 

Metric – 2.5.1

#### ATTAINMENT OF COURSE OUTCOMES

#### **DEPARTMENT OF MBA**

# 2.6.2 Attainment of program outcomes and course outcomes are evaluated by the Department

#### Response:

- The institution offersMBA programme under the Commerce & Business Administration.
- The assessment of each course includes Continuous Internal Assessment (CIA) and Semester End Examination (SEE) with 30:70weightage.
- Each course has a defined set of Course Outcomes and corresponding evaluation criteria.
   The course outcomes are mapped to program outcomes to know the quantitative measurement of how well the program outcomes are achieved.
- The POs and COs are evaluated by the institution using direct method and indirect method.

#### **Procedure for assigning the CO Attainment:**

#### **Direct Attainment (90%):**

The direct attainment tools are

- Continuous Internal Assessment (CIA) consists of 30% (30 Marks) weightage which includes, Mid-test Examination Marks (67% 20 Marks), Assignment/Seminars (16.5%-5 Marks) and Attendance (16.5% 5 Marks) and Semester End External Examinations consists of 70% (70 Marks) weightage.
- Calculation of Direct CO Attainment in the Course = 30% of Internal Examinations
   Attainment + 70% of External Examinations.
- Project marks 100 % weightage

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**Criterion: II** 

Metric - 2.5.1

#### **Direct Attainment Process:**

#### **Target Levels of CO Attainment for Continuous Internal Assessment (CIA)**

Level	of Attainment	Threshold value for Internal Assessment = 80% = 30 Marks (Threshold value for Best of the two Mid-test Marks (20 Marks) + Assignment (5 Marks) + Attendance (5 Marks) = 30 Marks is 80% of their total: 0.8 * 30 ≥ 24 Marks)				
3	High	80% and above of students scoring 24 or more marks				
2	Moderate	60% - 79% of students scoring 24 or more marks				
1	Low	40% - 59% of students scoring 24 or more marks				
0	Not Applicable	Below 40% of students scoring 24 or more marks				

#### **Target Levels of CO Attainment for Continuous External Assessment (SEE)**

Level	of Attainment	Threshold value for External Assessment = 55% = 0.55×70 = 38 Marks
3	High	75% and above of students scoring 38 or more marks
2	Moderate	60% - 74% of students scoring 38 or more marks
1	Low	40% - 59% of students scoring 38 or more marks
0	Not Applicable	Below 40% of students scoring 38 or more marks

#### **Target Levels of CO Attainment for Project**

Level	of Attainment	Threshold value for External Assessment = 60% = 60 Marks
3	High	75% and above of students scoring 60 or more marks
2	Moderate	60% - 74% of students scoring 60 or more marks
1	Low	40% - 59% of students scoring 60 or more marks
0	Not Applicable	Below 40% of students scoring 60 or more marks

#### **Target Levels of CO Attainment for MOOCs**

Level	of Attainment	Threshold value for External Assessment = 40% = 40 Marks
3	High	75% and above of students scoring 40 or more marks
2	Moderate	60% - 74% of students scoring 40 or more marks
1	Low	40% - 59% of students scoring 40 or more marks
0	Not Applicable	Below 40% of students scoring 40 or more marks

Therefore, CO Attainment (Direct) = <u>Number of students who reached threshold level</u>

Total Number of students



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**Criterion: II** 

Metric – 2.5.1

#### **Indirect Attainment (10%):**

The Indirect attainment tools are

• Feedback analysis through Student Exit Survey, which will be taken after the completion of the programme.

In Indirect Assessment method the threshold is: 3.0 in the 5-point rating scale.

**Target Levels of CO Attainment for Student Feedback Survey** 

Level o	of Attainment	Threshold value for Assessment = 3.0 in the 5-point rating scale in the Survey
3	High	75% or more students give 3.0 or more
2	Low	65% or more students give 3.0 or more
1	Moderate	50% or more students give 3.0 or more
0	Not Applicable	Less than 50% of students give 3.0 or more

Therefore, CO Attainment (Indirect) = Sum of the student responses which reached threshold level)

Total Number of students

#### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment

The overall attainment of a Programme Outcome is calculated after analyzing the performance in examinations, course exit survey and the Graduate exit survey using CO-PO matrix. Good Academic results and good placement record of students also indicate the progressive trend.



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**Criterion: II** 

**Metric – 2.5.1** 

### ATTAINMENT OF COURSE OUTCOMES

#### DIRECT ATTAINMENT ASSESMENT PROCESS

**Department of MBA (PG)** 

Batch: 2022-2024 Program: MBA Semester: I Paper: Bus 1.1 (R22)

Course Name: MANAGEMENT PROCESS Course Teacher: DR.P.L.NARASIMHA RAO

					_ External				
S. No	Regd. No		I Mid Exa m	II Mid Exa m	Best of I&II Mid Exam	Assignm ents	Attenda nce/Semi nars	Total	Marks (70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	-	17	17	05	05	27	42
2.	Y23BU58002	BHUNATTULA HEMALATHA	-	-	-	05	05	10	44
3.	Y23BU58003	BAYANABOINA NANDINI	-	18	18	05	05	28	46
4.	Y23BU58004	CHAVVAKULA AKHILA	18	17	18	05	05	28	47
5.	Y23BU58005	CHOKKA BHUVANESWARI	16	-	16	05	05	26	47
6.	Y23BU58006	GADDAM LAKSHMI DURGA	15	17	17	05	05	27	42
7.	Y23BU58007	GUDIMETLA MERI RANI	-	-	-	05	05	10	64
8.	Y23BU58009	IMADABATHII MOUNIKA	17	-	17	05	05	27	46
9.	Y23BU58011	KAKI SARITHA	17	18	18	05	05	28	46
10	Y23BU58012	KOJJA NEELIMA	-	-	-	05	05	10	56
11	Y23BU58013	KOMPALLA KIRANMAI	17	-	17	05	05	27	43
12	Y23BU58014	MOPARTHI ARCHANA	15	-	15	05	05	25	45
13	Y23BU58015	MUNAGOTI VENNELA	17	18	18	05	05	28	46
14	Y23BU58016	NALLAMEKALA MANUSHA	17	18	18	05	05	28	45
15	Y23BU58017	N.P.L. SANGHAVI	17	-	17	05	05	27	43
16	Y23BU58018	N. KAVYA MOUNIKA	18	-	18	05	05	28	43
17	Y23BU58019	NELAPATI MADHAVI	18	18	18	05	05	28	43

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**Criterion: II** 

**Metric – 2.5.1** 

30

≥24

Marks

27

90%

3

30

>38

Marks

30

100%

3

18.	Y23BU58020	ORSU SAILAJA	18	17	18	05	05	28	41
19.	Y23BU58022	PATCHALA SIRISHA	17	17	17	05	05	27	44
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	17	16	17	05	05	27	44
21.	Y23BU58024	POTLACHERUVU TRIVENI	17	18	18	05	05	28	44
22.	Y23BU58025	SHAIK KARISHMA	18	18	18	05	05	28	45
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	18	17	18	05	05	28	45
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	17	-	17	05	05	27	45
25.	Y23BU58028	THOTAKURA ANUSHA DEV	16	19	19	05	05	29	48
26.	Y23BU58029	TURAKA SMILEY	15	18	18	05	05	28	45
27.	Y23BU58030	VEDUKA BHAVANI	17	18	18	05	05	28	45
28.	Y23BU58032	YARRAM ANJALI	14	17	17	05	05	27	44
29.	Y23BU58033	YENUMULA JAYASRI	14	18	18	05	05	28	46
30.	Y23BU58034	YERUVA ARPITHA	-	18	18	05	05	28	46
			Attai	nment	Analysis				
								Internal	External
Total N	Number of Studen	ts Registered for the	e Exam	ination				30	30
otal N	Number of Studen	ts Absent for the Ex	aminati	on				Nil	Nil

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of Students Appeared for the Examination

Number of Students with Score

Percentage of students scoring

Direct attainment level of the Course

Total Number of students

# TANDREE HUMAN

#### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

$$= \underbrace{\text{No. students given 3.0 or more rating}}_{\text{Total Number of students}} = \underbrace{30}_{30} = 100\% = 3 \text{ Attained}$$

#### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

#### DIRECT ATTAINMENT ASSESMENT PROCESS

			Departm	ent of M	IBA (PG	5)			
	Batch: 2022-2024 Program: MBA			S	Semester	·: I			: Bus 1.2 (R22)
		: QUANTITATIVE OR MANAGEMENT		Cou	rse Teac	her : DR.	J.PRATA1	PA REDD	$\mathbf{Y}$
					Inter	nal Mark (30)	XS .		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assign ments	Attenda nce/Se minars	Total	External Marks(70)
1.	Y23BU5800	)1 ALLARI SNEHA GAYATHRI	-	18	18	05	05	28	30
2.	Y23BU5800		-	-	-	05	05	10	38
3.	Y23BU5800	)3 BAYANABOINA NANDINI	-	20	20	05	05	30	48
4.	Y23BU5800	)4 CHAVVAKULA AKHILA	19	20	20	05	05	30	34
5.	Y23BU5800	)5 CHOKKA BHUVANESWARI	18	-	18	05	05	28	44
6.	Y23BU5800	06 GADDAM LAKSHMI DURGA	20	20	20	05	05	30	41
7.	Y23BU5800	)7 GUDIMETLA MERI RANI	-	-	-	05	05	10	57
8.	Y23BU5800	08 GUDIMETLA RUPA	18	20	20	05	05	30	40
9.	Y23BU5800	9 IMADABATHII MOUNIKA	20	-	20	05	05	30	45
10	Y23BU5801	1 KAKI SARITHA	20	19	20	05	05	30	40
11	Y23BU5801	2 KOJJA NEELIMA	-	18	18	05	05	28	40
12	Y23BU5801	3 KOMPALLA KIRANMAI	19	-	19	05	05	29	40
13	Y23BU5801		20	-	20	05	05	30	33
14	Y23BU5801	5 MUNAGOTI VENNELA	20	19	20	05	05	30	38
15	Y23BU5801	6 NALLAMEKALA MANUSHA	19	20	20	05	05	30	34
16	Y23BU5801		18	-	18	05	05	28	41
17	Y23BU5801	8 N. KAVYA MOUNIKA	18	-	18	05	05	28	29



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Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Metric – 2.5.1

**Criterion: II** 

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

18	Y23BU58019	NELAPATI MADHAVI	19	20	20	05	05	30	30
19	Y23BU58020	ORSU SAILAJA	20	18	20	05	05	30	38
20	Y23BU58022	PATCHALA SIRISHA	18	-	18	05	05	28	38
21	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	20	20	05	05	30	38
22	Y23BU58024	P.TRIVENI	20	19	20	05	05	30	38
23	Y23BU58025	SHAIK KARISHMA	20	19	20	05	05	30	45
24	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	-	20	05	05	30	42
25	Y23BU58027	TADEPALLI POORNA JYOTHI	18	-	18	05	05	28	38
26	Y23BU58028	THOTAKURA ANUSHA DEV	19	20	20	05	05	30	43
27	Y23BU58029	TURAKA SMILEY	19	20	20	05	05	30	33
28	Y23BU58030	VEDUKA BHAVANI	19	20	20	05	05	30	38
29	Y23BU58032	YARRAM ANJALI	19	20	20	05	05	30	29
30	Y23BU58033	YENUMULA JAYASRI	19	20	20	05	05	30	30
31	Y23BU58034	YERUVA ARPITHA	-	18	18	05	05	28	39
			Attainı	nent A	nalysis				
								Internal	External
Total 1	Number of Studer	nts Registered for th	e Examir	nation				30	30
Total 1	Number of Studer	nts Absent for the Ex	aminatio	n				Nil	Nil
Total 1	Number of Studer	nts Appeared for the	Examina	ation				30	30
Numb	er of Students wit	th Score						≥24 Marks	≥38 Marks
								28	23
		Percentage of students scoring							
Percer	stage of students s	scoring						93%	77%

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

# TANK DILEGE BURNER

#### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric – 2.5.1

CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

#### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

#### DIRECT ATTAINMENT ASSESMENT PROCESS

		De	partme	ent of MB	A (PG)				
Batch	Batch: 2022-2024 Program: MBA			Se	emester	: I			: Bus 1.3 R22)
E	Course Nar NVIRONMENT		Co	ourse Te	acher : I	OR.G.RA	DHIKA		
						al Mark (30)	S		External Marks (70)
S. No	Regd. No	Student Name	I Mid Exa m	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	-	18	18	05	05	28	32
2.	Y23BU5800	2 BHUNATTULA HEMALATHA	-	-	-	05	05	10	42
3.	Y23BU5800	3 BAYANABOINA NANDINI	-	20	20	05	05	30	41
4.	Y23BU5800	4 CHAVVAKULA AKHILA	18	20	20	05	05	30	46
5.	Y23BU5800		18	-	18	05	05	28	44
6.	Y23BU5800		19	20	20	05	05	30	41
7.	Y23BU5800		-	-	-	05	05	10	52
8.	Y23BU5800		19	-	19	05	05	29	41
9.	Y23BU5801		18	20	20	05	05	30	54
10	Y23BU5801	2 KOJJA NEELIMA	-	20	20	05	05	30	31
11.	Y23BU5801	3 KOMPALLA KIRANMAI	18	-	18	05	05	28	38
12	Y23BU5801	4 MOPARTHI ARCHANA	18	-	18	05	05	28	38
13	Y23BU5801		20	18	20	05	05	30	45
14	Y23BU5801		18	20	20	05	05	30	28
15	Y23BU5801		18	-	18	05	05	28	42
16	Y23BU5801		18	-	18	05	05	28	40



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Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

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**Criterion: II** 

Metric - 2.5.1

	Y23BU58019	NELAPATI MADHAVI	18	20	20	05	05	30	38
18.	Y23BU58020	ORSU SAILAJA	19	20	20	05	05	30	32
19.	Y23BU58022	PATCHALA SIRISHA	18	-	18	05	05	28	42
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	18	20	20	05	05	30	28
21.	Y23BU58024	POTLACHERUVU TRIVENI	18	20	20	05	05	30	46
22.	Y23BU58025	SHAIK KARISHMA	20	18	20	05	05	30	44
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	18	-	18	05	05	28	47
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	-	18	05	05	28	43
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	20	20	05	05	30	39
26.	Y23BU58029	TURAKA SMILEY	20	18	20	05	05	30	42
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	44
28.	Y23BU58032	YARRAM ANJALI	20	18	20	05	05	30	28
29.	Y23BU58033	YENUMULA JAYASRI	20	16	20	05	05	30	40
30.	Y23BU58034	YERUVA ARPITHA	-	16	16	05	05	26	43
		A	ttainm	ent An	alysis				
								Internal	External
T.4.13	Number of Studen								
10tal I	varioer or stade.	its Registered for the	e Exami	nation				30	30
		nts Absent for the Ex						30 Nil	30 Nil
Total N	Number of Studen		aminatio	on					
Total N Total N	Number of Studer	nts Absent for the Ex	aminatio	on				Nil	Nil
Total N Total N	Number of Studen	nts Absent for the Ex	aminatio	on				Nil 30	Nil
Total N Total N	Number of Studer	nts Absent for the Ex	aminatio	on				Nil 30 ≥24	Nil 30 ≥38
Total N Total N	Number of Studer	nts Absent for the Exnets Appeared for the h Score	aminatio	on				Nil 30 ≥24 Marks	Nil 30 ≥38 Marks

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

# TANDREE HUMAN

#### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric – 2.5.1

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained
Total Number of students 30

#### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

#### DIRECT ATTAINMENT ASSESMENT PROCESS

		De	epartm	ent of	MBA (I	<b>PG</b> )				
Batch	: 2022-2024	Program : MBA	Semester : I Paper : Bus 1.4 (R22) Course Teacher : DR.P.L.NARASIMHA RAO							
Cou		UNDAMENTALS OF UNTING								
				<b>External</b>						
S. No	Regd. No	Student Name	I Mid Exa m	II Mi d Ex am	Best of I&II Mid Exam	Assig nment s	Attend ance/Se minars	Total	Marks (70)	
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	-	16	16	05	05	26	37	
2.	Y23BU58002		-	-	-	05	05	10	40	
3.	Y23BU58003		-	18	18	05	05	28	41	
4.	Y23BU58004	4 CHAVVAKULA AKHILA	18	15	18	05	05	28	39	
5.	Y23BU5800:	5 CHOKKA BHUVANESWARI	18	-	18	05	05	28	38	
6.	Y23BU5800	6 GADDAM LAKSHMI DURGA	17	15	17	05	05	27	35	
7.	Y23BU5800	7 GUDIMETLA MERI RANI	-	-	-	05	05	10	55	
8.	Y23BU58009	9 IMADABATHII MOUNIKA	18	-	18	05	05	28	37	
9.	Y23BU5801	1 KAKI SARITHA	18	16	18	05	05	28	49	
10	Y23BU58012	2 KOJJA NEELIMA	-	-	-	05	05	10	66	
11	Y23BU5801	3 KOMPALLA KIRANMAI	16	-	16	05	05	26	51	
12		ARCHANA	17	-	17	05	05	27	48	
13	Y23BU5801:	5 MUNAGOTI VENNELA	17	17	17	05	05	27	42	
14	Y23BU5801	6 NALLAMEKALA MANUSHA	18	17	18	05	05	28	46	
15	Y23BU5801	7 N.P.L.SANGHAVI	18	-	18	05	05	28	48	
16	Y23BU5801	8 N. KAVYA MOUNIKA	17	-	17	05	05	27	52	
17	Y23BU58019	9 NELAPATI MADHAVI	18	16	18	05	05	28	43	

# STANDINGER BUREAU

#### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)
Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

10	MAADIIGOOO	1	1.7	1.7	1.7	0.5	0.7	7 - 7	
	Y23BU58020	ORSU SAILAJA	17	17	17	05	05	27	42
19.	Y23BU58022	PATCHALA SIRISHA	18	-	18	05	05	28	45
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	18	-	18	05	05	28	46
21.	Y23BU58024	P.TRIVENI	17	18	18	05	05	28	51
22.	Y23BU58025	SHAIK KARISHMA	18	18	18	05	05	28	49
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	18	17	18	05	05	28	48
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	-	18	05	05	28	50
25.	Y23BU58028	THOTAKURA ANUSHA DEV	17	-	17	05	05	27	41
26.	Y23BU58029	TURAKA SMILEY	17	18	18	05	05	28	33
27.	Y23BU58030	VEDUKA BHAVANI	18	17	18	05	05	28	50
28.	Y23BU58032	YARRAM ANJALI	17	18	18	05	05	28	30
29.	Y23BU58033	YENUMULA JAYASRI	18	18	18	05	05	28	42
30.	Y23BU58034	YERUVA ARPITHA	-	-	-	05	05	10	59
		A	ttainı	ment .	Analys	is			
								Internal	External
Total N	Number of Studer	nts Registered for the	e Exam	nination	1			30	30
Total N	Number of Studen	nts Absent for the Ex	aminat	ion				Nil	Nil
Total N	Number of Studer	nts Appeared for the	Exami	nation				30	30
Numbe	er of Students wit	h Score						≥24 Marks	≥38 Marks
								27	25
Percen	tage of students s	scoring						90%	83.3%
Direct	attainment level	of the Course						3	3

Therefore, Overall Course Direct Attainment =  $(0.30 \times 3) + (0.70 \times 3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

# TANK PRICE TO HUMAN

#### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

#### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

#### DIRECT ATTAINMENT ASSESMENT PROCESS

		De	epartmen	t of MB	A (PG)						
Batch	: 2022-2024	Program : MBA		Se	Paper : Bus 1.5 (R22)						
		ie : BUSINESS NICATION		Course Teacher : DR.G.RADHIKA							
S. No											
	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks (70)		
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	-	18	18	05	05	28	48		
2.	Y23BU58002		-	-	-	05	05	10	49		
3.	Y23BU58003		-	17	17	05	05	27	49		
4.	Y23BU58004	4 CHAVVAKULA AKHILA	20	20	20	05	05	30	45		
5.	Y23BU58003	5 CHOKKA BHUVANESWARI	17	-	17	05	05	27	50		
6.	Y23BU58000		19	19	19	05	05	29	38		
7.	Y23BU58007		-	19	19	05	05	29	50		
8.	Y23BU58009		17	17	17	05	05	27	47		
9.	Y23BU58011	l KAKI SARITHA	19	19	18	05	05	28	49		
10	Y23BU58012		-	18	18	05	05	28	48		
11.	Y23BU58013	3 KOMPALLA KIRANMAI	18	-	18	05	05	28	49		
12	Y23BU58014	4 MOPARTHI ARCHANA	16	-	16	05	05	26	49		
13	Y23BU58013	5 MUNAGOTI VENNELA	20	20	20	05	05	30	39		
14	Y23BU58010	NALLAMEKALA MANUSHA	19	19	19	05	05	29	45		
15	Y23BU58017	7 N.P.L.SANGHAVI	19	-	19	05	05	29	47		
16	Y23BU58018	NEERUKONDA KAVYA MOUNIKA	19	-	19	05	05	29	50		



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Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

17.	Y23BU58019	NELAPATI MADHAVI	20	20	20	05	05	30	41
18.	Y23BU58020	ORSU SAILAJA	19	19	19	05	05	29	40
19.	Y23BU58022	PATCHALA SIRISHA	18	-	18	05	05	28	45
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	19	19	05	05	29	45
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	20	20	05	05	30	49
22.	Y23BU58025	SHAIK KARISHMA	20	20	20	05	05	30	47
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	18	-	18	05	05	28	48
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	-	18	05	05	28	50
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	18	18	05	05	28	40
26.	Y23BU58029	TURAKA SMILEY	20	-	20	05	05	30	31
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	48
28.	Y23BU58032	YARRAM ANJALI	19	19	19	05	05	29	47
29.	Y23BU58033	YENUMULA JAYASRI	18	18	18	05	05	28	41
30.	Y23BU58034	YERUVA ARPITHA	-	17	17	05	05	27	45
		A	ttainm	ent Ana	lysis				
					-			Internal	External
Total N	Number of Studen	ts Registered for the	e Examin	ation				30	30
Total N	Number of Studen	ts Absent for the Exa	amination	1				Nil	Nil
Total N	Number of Studen	ats Appeared for the	Examina	tion				30	30
Numbe	er of Students wit	h Score						≥24 Marks	≥38 Marks
								29	29
Percen	tage of students s	coring						97%	97%
Direct	attainment level	3	3						

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

# ENRICH THE PARTY OF THE PARTY O

#### ST. ANN'S COLLEGE FOR WOMEN

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Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric – 2.5.1

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained

Total Number of students 30

#### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment =  $(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$  Attained



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**Criterion: II** 

Metric-2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	<b>Departme</b>	nt of MI	3A (PG)				
Batch	: 2022-2024	Program : MBA		Se	mester :	: I		-	: Bus 1.7.2 R22)
	Course Name	e : E-BUSINESS			Course	e Teache	r : DR.V.	VANI	
						al Mark (30)	S.		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assign ments	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	-	18	18	05	05	28	51
2.	Y23BU58002		-	-		05	05	10	50
3.	Y23BU58003	NANDINI	-	17	17	05	05	27	50
4.	Y23BU58004	AKHILA	20	20	20	05	05	30	48
5.	Y23BU58003	BHUVANESWARI	17	-	17	05	05	27	53
6.	Y23BU58000	6 GADDAM LAKSHMI DURGA	19	19	19	05	05	29	48
7.	Y23BU58007	7 GUDIMETLA MERI RANI	-	-	-	05	05	10	68
8.	Y23BU58009	9 IMADABATHII MOUNIKA	17	-	17	05	05	27	52
9.	Y23BU58011	1 KAKI SARITHA	19	-	19	05	05	29	49
10	<u> </u>		-	19	19	05	05	29	49
11		KIRANMAI	18	-	18	05	05	28	50
12	Y23BU5801	4 MOPARTHI ARCHANA	16	-	16	05	05	26	50
13	Y23BU5801:	VENNELA	20	20	20	05	05	30	51
14		MANUSHA	19	19	19	05	05	29	52
15	<u> </u>		19	-	19	05	05	29	50
16		MOUNIKA	19	-	19	05	05	29	49
17	Y23BU58019	9 NELAPATI MADHAVI	20	20	20	05	05	30	51

## SAND MEET HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

**Metric** – **2.5.1** 

18.	Y23BU58020	ORSU SAILAJA	19	19	19	05	05	29	51
19.	Y23BU58022	P.SIRISHA	19	-	19	05	05	29	49
	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	19	19	05	05	29	48
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	20	20	05	05	30	50
22.	Y23BU58025	SHAIK KARISHMA	20	20	20	05	05	30	51
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	18	-	18	05	05	28	51
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	20	-	20	05	05	30	49
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	18	18	05	05	28	51
26.	Y23BU58029	TURAKA SMILEY	20	20	20	05	05	30	49
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	50
28.	Y23BU58032	YARRAM ANJALI	19	19	19	05	05	29	51
29.	Y23BU58033	YENUMULA JAYASRI	18	18	18	05	05	28	50
30.	Y23BU58034	YERUVA ARPITHA	-	17	17	05	05	27	47
		1	Attainn	ient An	alysis				
								Internal	External
Total N	Number of Studer	nts Registered for the	Examin	ation				30	30
Total N	Number of Studer	nts Absent for the Exa	amination	1				Nil	Nil
Total N	Number of Studer	nts Appeared for the	Examina	tion				30	30
Numb	er of Students wit		≥24 Marks	≥38 Marks					
								28	30
Percen	tage of students s	scoring						100%	93%
Direct	attainment level	of the Course						3	3
									1

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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### ST. ANN'S COLLEGE FOR WOMEN

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartm	ent of M	IBA (PC	<del>5</del> )			
Batch	: 2022-2024	Program : MBA		S	emester	: II		Paper : 1	Bus 2.1 (R22)
(	Course Name :	BUSINESS LAW		Cour	se Teach	er : DR	.P.L.NA	RASIMHA	RAO
					Inte	rnal Ma (30)	rks		
S. No	Regd. No	Student Name	I Mid Exa m	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	17	18	18	05	05	28	32
2.	Y23BU58002		-	14	14	05	05	24	38
3.	Y23BU58003		17	16	17	05	05	27	43
4.	Y23BU58004	CHAVVAKULA AKHILA	18	17	18	05	05	28	40
5.	Y23BU58005	CHOKKA BHUVANESWARI	18	18	18	05	05	28	45
6.	Y23BU58006	GADDAM LAKSHMI DURGA	17	17	17	05	05	27	38
7.	Y23BU58007		18	17	18	05	05	28	28
8.	Y23BU58009		17	17	17	05	05	27	38
9.	Y23BU58011	KAKI SARITHA	18	18	18	05	05	28	45
10.	Y23BU58012	KOJJA NEELIMA	18	17	18	05	05	28	28
11.	Y23BU58013	KOMPALLA KIRANMAI	-	14	14	05	05	24	38
12.	Y23BU58014	MOPARTHI ARCHANA	17	17	17	05	05	27	50
13.	Y23BU58015	MUNAGOTI VENNELA	17	17	17	05	05	27	40
14.	Y23BU58016	NALLAMEKALA MANUSHA	17	16	17	05	05	27	32
15.	Y23BU58017	NANDIVELUGU PHANIGNIGNAN A LAKSHMI SANGHAVI	17	15	17	05	05	27	38



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

16										
17	16.	Y23BU58018	KAVYA	17	15	17	05	05	27	28
18	17.	Y23BU58019	NELAPATI	17	16	17	05	05	27	38
SIRISHA   20   Y23BU58023   PITTALA SIVA   17   17   17   05   05   27   41	18.	Y23BU58020		18	17	18	05	05	28	40
21 Y23BU58024   POTLACHERUVU   18   18   18   05   05   28   40	19.	Y23BU58022		18	-	18	05	05	28	44
22 Y23BU58025   SHAIK   19   17   19   05   05   29   44	20.	Y23BU58023	NAGA LAKSHMI	17	17	17	05	05	27	41
Color	21.	Y23BU58024		18	18	18	05	05	28	40
RAJESWARI   16	22.	Y23BU58025		19	17	19	05	05	29	44
POORNA JYOTHI	23.	Y23BU58026		16	18	18	05	05	28	43
ANUSHA DEV   17   16   17   05   05   27   28			POORNA JYOTHI	16	18	18	05	05	28	41
27         Y23BU58030         VEDUKA BHAVANI         17         15         17         05         05         27         38           28         Y23BU58032         YARRAM ANJALI         16         17         17         05         05         27         28           29         Y23BU58033         YENUMULA JAYASRI         16         17         17         05         05         27         44           30         Y23BU58034         YERUVA ARPITHA         14         -         14         05         05         24         40           Attainment Analysis           Internal         External           Total Number of Students Registered for the Examination         30         30           Total Number of Students Absent for the Examination         Nil         Nil         Nil           Number of Students with Score         ≥24 Marks         ≥38 Marks           30         23           Percentage of students scoring         100%         76.6%				18	17				28	46
28   Y23BU58032   YARRAM ANJALI   16   17   17   05   05   27   28	26.	Y23BU58029		17	16	17	05	05	27	28
29       Y23BU58033       YENUMULA JAYASRI JAYASRI       16       17       17       05       05       27       44         30       Y23BU58034       YERUVA ARPITHA       14       -       14       05       05       24       40         Attainment Analysis         Internal       External         Total Number of Students Registered for the Examination       30       30         Total Number of Students Absent for the Examination       Nil       Nil       Nil         Total Number of Students Appeared for the Examination       30       30         Number of Students with Score       ≥24 Marks       ≥38 Marks         30       23         Percentage of students scoring       100%       76.6%	27.	Y23BU58030		17	15	17	05	05	27	38
JAYASRI   10   17   17   05   05   24   40	28.	Y23BU58032	YARRAM ANJALI	16	17	17	05	05	27	28
Attainment Analysis    Internal   External	29.	Y23BU58033		16	17	17	05	05	27	44
Total Number of Students Registered for the Examination       30       30         Total Number of Students Absent for the Examination       Nil       Nil         Total Number of Students Appeared for the Examination       30       30         Number of Students with Score       ≥24 Marks       ≥38 Marks         30       23         Percentage of students scoring       100%       76.6%	30.	Y23BU58034		14	-	14	05	05	24	40
Total Number of Students Registered for the Examination  Total Number of Students Absent for the Examination  Nil Nil  Total Number of Students Appeared for the Examination  Number of Students Appeared for the Examination  Number of Students with Score  ≥24 Marks ≥38 Marks  Percentage of students scoring  100%  76.6%			A	Attain	ment A	nalysis	5			
Total Number of Students Absent for the Examination  Nil Nil  Total Number of Students Appeared for the Examination  Number of Students with Score  ≥24 Marks ≥38 Marks  23  Percentage of students scoring  100% 76.6%						-			Internal	External
Total Number of Students Appeared for the Examination  30 30  Number of Students with Score  224 Marks  30 23  Percentage of students scoring  100% 76.6%	Total N	Number of Studen	ts Registered for the	e Exam	ination				30	30
Number of Students with Score    \( \frac{24 \text{ Marks}}{30} \) \( \frac{23}{23} \)   Percentage of students scoring   100%   76.6%	Total N	Number of Studen	ts Absent for the Ex	aminati	on				Nil	Nil
Number of Students with Score  30 23  Percentage of students scoring  100% 76.6%	Total N	Number of Studen	ts Appeared for the	Examir	nation				30	30
Percentage of students scoring 100% 76.6%	Numbe	er of Students wit	h Score						≥24 Marks	≥38 Marks
				30	23					
Direct attainment level of the Course 3 3	Percen	tage of students s		100%	76.6%					
	Direct	attainment level	of the Course						3	3

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Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric** – **2.5.1** 

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 13 = 100% = 3 **Attained** Total Number of students 13

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

**Metric** – **2.5.1** 

### ATTAINMENT OF COURSE OUTCOMES

		Dep	artment	of MB	A (PG)				
Batch	: 2022-2024	Program : MBA		Se	mester	: II		-	: Bus 2.2 R22)
		e: FINANCIAL GEMENT	(	Course	Teache	r : DR.	P.L.NAF	RASIMH	A RAO
						nal Mai (30)	rks		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exa m	Best of I&II Mid Exa m	Assi gnm ents	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	_	17	17	05	05	27	39
2.	Y23BU58002		-	17	17	05	05	27	35
3.	Y23BU58003	BAYANABOINA NANDINI	16	14	16	05	05	26	38
4.	Y23BU58004	CHAVVAKULA AKHILA	18	16	18	05	05	28	39
5.	Y23BU58005	CHOKKA BHUVANESWARI	16	18	18	05	05	28	39
6.	Y23BU58006	GADDAM LAKSHMI DURGA	18	17	18	05	05	28	38
7.	Y23BU58007	GUDIMETLA MERI RANI	16	15	16	05	05	26	38
8.	Y23BU58009	IMADABATHII MOUNIKA	17	15	17	05	05	27	36
9.	Y23BU58011	KAKI SARITHA	17	17	17	05	05	27	43
10.	Y23BU58012	2 KOJJA NEELIMA	17	18	18	05	05	28	39
11.	Y23BU58013	KIRANMAI	14	17	17	05	05	27	33
12.	Y23BU58014	MOPARTHI ARCHANA	18	=	18	05	05	28	38
13.	Y23BU58015	MUNAGOTI VENNELA	15	16	16	05	05	26	38
14.	Y23BU58016	NALLAMEKALA MANUSHA	18	16	18	05	05	28	36
15.	Y23BU58017	N.P.L SANGHAVI	16	16	16	05	05	26	35
16.	Y23BU58018	N.KAVYA MOUNIKA	16	17	17	05	05	27	41



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**Criterion: II** 

Metric - 2.5.1

1		NET + D+ET		1.0					I
17.	Y23BU58019	NELAPATI MADHAVI	16	18	18	05	05	28	39
18.	Y23BU58020	ORSU SAILAJA	17	17	17	05	05	27	39
19.	Y23BU58022	PATCHALA SIRISHA	15	17	17	05	05	27	41
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	17	16	17	05	05	27	41
21.	Y23BU58024	POTLACHERUVU TRIVENI	18	18	18	05	05	28	38
22.	Y23BU58025	SHAIK KARISHMA	18	16	18	05	05	28	39
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	17	17	17	05	05	27	40
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	17	15	17	05	05	27	46
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	18	18	05	05	28	39
26.	Y23BU58029	TURAKA SMILEY	17	17	17	05	05	27	35
27.	Y23BU58030	VEDUKA BHAVANI	16	15	16	05	05	26	44
28.	Y23BU58032	YARRAM ANJALI	16	14	16	05	05	26	40
29.	Y23BU58033	YENUMULA JAYASRI	16	17	17	05	05	27	32
30.	Y23BU58034	YERUVA ARPITHA	15	-	15	05	05	25	43
		Att	tainme	nt Ana	alysis				
					-			Internal	External
Total N	Jumber of Studen	ts Registered for the	e Exami	nation				30	03
Total N	Number of Studen	ts Absent for the Exa	aminatio	on				Nil	Nil
Total N	Number of Studen	ts Appeared for the	Examin	ation				30	30
Numbe	er of Students wit		≥24 Marks	≥38 Marks					
								30	23
Percen	tage of students s	coring						100%	76.6%
Direct	attainment level of	of the Course						3	3

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

# ENRICH THE PARTY OF THE PARTY O

### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric – 2.5.1

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		De	epartmen	t of MB	A (PG)				
Batch	: 2022-2024	Program : MBA		Sei	nester :	II			: Bus 2.3 R22)
		e: MARKETING GEMENT		Co	urse Te	acher : I	R.G.RA	DHIKA	
						al Marks 30)	S		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks (70)
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	19	16	19	05	05	29	35
2.	Y23BU5800		15	18	18	05	05	28	41
3.	Y23BU5800		15	20	20	05	05	30	46
4.	Y23BU5800		16	20	20	05	05	30	45
5.	Y23BU5800		20	14	20	05	05	30	47
6.	Y23BU5800		20	15	20	05	05	30	51
7.	Y23BU5800		16	20	20	05	05	30	35
8.	Y23BU5800		15	20	20	05	05	30	43
9.	Y23BU5801	1 KAKI SARITHA	20	15	20	05	05	30	46
10	Y23BU5801	2 KOJJA NEELIMA	20	16	20	05	05	30	44
11	Y23BU5801	3 KOMPALLA KIRANMAI	16	15	16	05	05	26	38
12	Y23BU5801		20	16	20	05	05	30	40
13	Y23BU5801		17	20	20	05	05	30	40
14	Y23BU5801		20	18	20	05	05	30	40
15	Y23BU5801		20	19	20	05	05	30	45
16	Y23BU5801	8 N. KAVYA MOUNIKA	20	19	20	05	05	30	45
17	Y23BU5801		20	16	20	05	05	30	40

## STANDONE MANUAL PROPERTY AND ASSESSMENT OF THE PARTY ASSESSMEN

### ST. ANN'S COLLEGE FOR WOMEN

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

	Y23BU58020	ORSU SAILAJA	17	20	20	05	05	30	42
19.	Y23BU58022	PATCHALA SIRISHA	20	18	20	05	05	30	45
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	18	20	20	05	05	30	44
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	18	20	05	05	30	41
22.	Y23BU58025	SHAIK KARISHMA	20	18	20	05	05	30	49
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	18	20	05	05	30	48
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	20	18	20	05	05	30	43
25.	Y23BU58028	THOTAKURA ANUSHA DEV	19	20	20	05	05	30	45
26.	Y23BU58029	TURAKA SMILEY	20	18	20	05	05	30	41
27.	Y23BU58030	VEDUKA BHAVANI	20	18	20	05	05	30	45
28.	Y23BU58032	YARRAM ANJALI	20	18	20	05	05	30	41
29.	Y23BU58033	YENUMULA JAYASRI	18	20	20	05	05	30	35
30.	Y23BU58034	YERUVA ARPITHA	20	18	20	05	05	30	49
		A	ttainm	ent Ana	lysis				
					•			Internal	External
Fotol N	Number of Studer	nts Registered for the	Examina	ntion				30	
IOtal I		C		ation				30	30
	Number of Studer	nts Absent for the Exa						Nil	30 Nil
Fotal N			amination	l					
Гоtal N Гоtal N	Number of Studer	nts Absent for the Exa	amination	l				Nil	Nil
Гоtal N Гоtal N		nts Absent for the Exa	amination	l				Nil 30	Nil
Гоtal N Гоtal N	Number of Studer	nts Absent for the Exa	amination	l				Nil 30 ≥24	Nil 30 ≥38
Fotal N	Number of Studer	ats Absent for the Exacts Appeared for the h Score	amination	l				Nil 30 ≥24 Marks	Nil 30 ≥38 Marks

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

# TANK PRICE TO HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		De	epartmen	t of MB	A (PG)				
Batch	: 2022-2024	Program : MBA		Sei	mester :	II			: Bus 2.4 R22)
Co		PRODUCTION AND MANAGEMENT		Co	urse Te	acher : I	DR.G.RA	DHIKA	
						al Mark 30)	s		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks (70)
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	15	15	15	05	05	25	42
2.	Y23BU5800		15	15	15	05	05	25	42
3.	Y23BU5800		20	16	20	05	05	30	41
4.	Y23BU5800		19	15	19	05	05	29	46
5.	Y23BU5800		20	16	20	05	05	30	43
6.	Y23BU5800		19	14	19	05	05	29	41
7.	Y23BU5800		20	15	20	05	05	30	43
8.	Y23BU5800		20	14	20	05	05	30	28
9.	Y23BU5801		20	15	20	05	05	30	43
10	Y23BU5801	2 KOJJA NEELIMA	20	16	20	05	05	30	38
11	Y23BU5801	3 KOMPALLA KIRANMAI	19	14	19	05	05	29	32
12	Y23BU5801		19	16	19	05	05	29	41
13	Y23BU5801		20	16	20	05	05	30	40
14	Y23BU5801		20	14	20	05	05	30	45
15	Y23BU5801		20	16	20	05	05	30	42
16	Y23BU5801		20	16	20	05	05	30	45
17	Y23BU5801		20	16	20	05	05	30	43

## SAND MEET HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

	Y23BU58020	ORSU SAILAJA	20	18	20	05	05	30	35
19	Y23BU58022	PATCHALA SIRISHA	20	17	20	05	05	30	43
20	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	20	19	20	05	05	30	44
21	Y23BU58024	POTLACHERUVU TRIVENI	20	18	20	05	05	30	43
22	Y23BU58025	SHAIK KARISHMA	20	16	20	05	05	30	50
23	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	15	20	05	05	30	45
24	Y23BU58027	TADEPALLI POORNA JYOTHI	20	13	20	05	05	30	43
25	Y23BU58028	THOTAKURA ANUSHA DEV	20	12	20	05	05	30	40
26	Y23BU58029	TURAKA SMILEY	20	19	20	05	05	30	32
27	Y23BU58030	VEDUKA BHAVANI	20	18	20	05	05	30	42
28	Y23BU58032	YARRAM ANJALI	20	18	20	05	05	30	28
29	Y23BU58033	YENUMULA JAYASRI	20	19	20	05	05	30	41
30	Y23BU58034	YERUVA ARPITHA	20	18	20	05	05	30	35
		A	ttainmo	nt And	1				
		4.3	· · · · · · · · · · · · · · · · · · ·	ш Апа	uysis				
				ent Ana	uysis			Internal	External
Γotal 1	Number of Studer	ats Registered for the			iiysis			Internal 30	External 30
			e Examina	ation	ilysis				
Γotal 1	Number of Studer	ats Registered for the	e Examina	ation	HYSIS			30	30
Fotal 1  Fotal 1	Number of Studer	nts Registered for the exacts Absent for the Exacts Appeared for the	e Examina	ation	Hysis			30 Nil	30 Nil
Total 1 Total 1	Number of Studer	nts Registered for the exacts Absent for the Exacts Appeared for the	e Examina	ation	IIIYSIS			30 Nil 30	30 Nil 03
Total 1 Total 1	Number of Studer	nts Registered for the exacts Absent for the Exacts Appeared for the	e Examina	ation	Hysis			30 Nil 30 ≥24	30 Nil 03 ≥38
Total I	Number of Studer	its Registered for the Exacts Absent for the Exacts Appeared for the h Score	e Examina	ation	Hysis			30 Nil 30 ≥24 Marks	30 Nil 03 ≥38 Marks

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

# TANK PRICE TO HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric – 2.5.1

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating =  $\frac{13}{13}$  = 100% = 3 Attained Total Number of students 13

### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment =  $(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$  Attained



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric-2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartme	nt of ME	BA (PG)				
	: 2022-2024	Program : MBA		Sei	mester :	II		-	: Bus 2.5 R22)
Co	urse Name : H MANAG	UMAN RESOURCE EMENT			Course	e Teache	r : DR.V.	VANI	
						al Mark (30)	S		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	16	17	17	05	05	27	49
2.	Y23BU58002		14	-	14	05	05	24	49
3.	Y23BU58003		19	20	20	05	05	30	49
4.	Y23BU58004		18	19	19	05	05	29	45
5.	Y23BU58005		18	19	19	05	05	29	45
6.	Y23BU58006		16	19	19	05	05	29	45
7.	Y23BU58007		18	19	19	05	05	29	49
8.	Y23BU58009		19	20	20	05	05	30	46
9.	Y23BU58011	KAKI SARITHA	19	20	20	05	05	30	45
10	Y23BU58012	KOJJA NEELIMA	18	17	18	05	05	28	47
11	. Y23BU58013	KOMPALLA KIRANMAI	16	17	17	05	05	27	45
12	. Y23BU58014	MOPARTHI ARCHANA	17	18	18	05	05	28	50
13	Y23BU58015	MUNAGOTI VENNELA	20	20	20	05	05	30	48
14	Y23BU58016		18	19	19	05	05	29	47
15	Y23BU58017		16	17	17	05	05	27	51
16	Y23BU58018	N.KAVYA MOUNIKA	17	18	18	05	05	28	50
17	Y23BU58019		17	18	18	05	05	28	44

## SAND MEET HUMAN

Percentage of students scoring

Direct attainment level of the Course

### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

100%

3

100%

3

18.	Y23BU58020	ORSU SAILAJA	18	19	19	05	05	29	46
19.	Y23BU58022	PATCHALA SIRISHA	20	19	20	05	05	30	45
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	20	20	05	05	30	45
21.	Y23BU58024	POTLACHERUVU TRIVENI	17	19	19	05	05	29	45
	Y23BU58025	SHAIK KARISHMA	20	20	20	05	05	30	48
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	20	20	05	05	30	45
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	16	17	17	05	05	27	45
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	19	19	05	05	29	40
26.	Y23BU58029	TURAKA SMILEY	17	19	19	05	05	29	44
27.	Y23BU58030	VEDUKA BHAVANI	19	20	20	05	05	30	40
28.	Y23BU58032	YARRAM ANJALI	19	20	20	05	05	30	42
29.	Y23BU58033	YENUMULA JAYASRI	17	18	18	05	05	28	40
30.	Y23BU58034	YERUVA ARPITHA	17	18	18	05	05	28	49
		I	Attainm	ent An	alysis				
								Internal	Externa
otal N	lumber of Studen	ts Registered for the	Examin	ation				30	30
otal N	lumber of Studen	ts Absent for the Exa	amination	1				Nil	Nil
otal N	lumber of Studen	ts Appeared for the	Examina	tion				30	30
lumbe	er of Students wit	h Score						≥24 Marks	≥38 Marl
								30	30

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		De	partme	ent of M	BA (PG	)			
Batch	: 2022-2024	Program : MBA		Se	emester	: II		_	Bus 2.7.3 R22)
Co	ourse Name :	CYBER SECURITY		(	Course T	eacher:	MISS.H	P.ANITHA	
					Inter	nal Mar (30)	ks		
S. No	Regd. No	Student Name	I Mid Exa m	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks (70)
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	19	16	19	05	05	29	43
2.	Y23BU5800	2 BHUNATTULA HEMALATHA	15	18	18	05	05	28	42
3.	Y23BU5800	3 BAYANABOINA NANDINI	15	20	20	05	05	30	45
4.	Y23BU5800	4 CHAVVAKULA AKHILA	16	20	20	05	05	30	45
5.	Y23BU5800	5 CHOKKA BHUVANESWARI	20	14	20	05	05	30	46
6.	Y23BU5800	6 GADDAM LAKSHMI DURGA	20	15	20	05	05	30	40
7.	Y23BU5800	7 GUDIMETLA MERI RANI	16	20	20	05	05	30	46
8.	Y23BU5800	9 IMADABATHII MOUNIKA	15	20	20	05	05	30	43
9.	Y23BU5801	1 KAKI SARITHA	20	15	20	05	05	30	45
10.	Y23BU5801	2 KOJJA NEELIMA	20	16	20	05	05	30	45
11.	Y23BU5801	3 KOMPALLA KIRANMAI	16	15	16	05	05	26	51
12.	Y23BU5801	4 MOPARTHI ARCHANA	20	16	20	05	05	30	44
13.	Y23BU5801	5 MUNAGOTI VENNELA	17	20	20	05	05	30	46
14.	Y23BU5801	6 NALLAMEKALA MANUSHA	20	18	20	05	05	30	46
15.	Y23BU5801		20	19	20	05	05	30	43
16.	Y23BU5801	8 N.KAVYA MOUNIKA	20	19	20	05	05	30	40
17.	Y23BU5801	9 NELAPATI MADHAVI	20	16	20	05	05	30	46

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### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

18	Y23BU58020	ORSU SAILAJA	17	20	20	05	05	30	46
	Y23BU58022	PATCHALA SIRISHA	20	18	20	05	05	30	47
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	18	20	20	05	05	30	46
21.	Y23BU58024	P. TRIVENI	20	18	20	05	05	30	45
22.	Y23BU58025	SHAIK KARISHMA	20	18	20	05	05	30	47
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	18	20	05	05	30	46
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	20	18	20	05	05	30	46
25.	Y23BU58028	THOTAKURA ANUSHA DEV	19	20	20	05	05	30	44
26.	Y23BU58029	TURAKA SMILEY	20	18	20	05	05	30	44
27.	Y23BU58030	VEDUKA BHAVANI	20	18	20	05	05	30	46
28.	Y23BU58032	YARRAM ANJALI	20	18	20	05	05	30	45
29.	Y23BU58033	YENUMULA JAYASRI	18	20	20	05	05	30	47
30.	Y23BU58034	YERUVA ARPITHA	20	18	20	05	05	30	46
		A	ttainn	nent A	nalysis				
								Internal	External
Total N	Number of Studer	nts Registered for the	e Exam	ination				30	30
Total N	Number of Studer	nts Absent for the Ex	aminati	on				Nil	Nil
Total N	Number of Studer	nts Appeared for the	Exami	nation				30	30
Numbe	er of Students wit	h Score						≥24 Marks	≥38 Marks
			0	30					
Percen	tage of students s	scoring						100%	100%
Direct	attainment level	of the Course						3	3

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

= No. students given 3.0 or more rating = 
$$30$$
 = 100% = 3 Attained  
Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartmer	t of MB	A (PG)					
	: 2022-2024	Program : MBA		Sen	nester : 1	III		Paper : Bus 3.1 (R22)		
Cot		SUSINESS POLICY & MANAGEMNET			Course	Teacher	: DR.V	.VANI		
						al Mark 30)	S		External	
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atte ndan ce/Se mina rs	Total	Marks (70)	
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	18	18	18	05	05	28	32	
2.	Y23BU5800		18	18	18	05	05	28	32	
3.	Y23BU5800	3 BAYANABOINA NANDINI	18	19	19	05	05	29	48	
4.	Y23BU5800		18	18	18	05	05	28	41	
5.	Y23BU5800		18	19	19	05	05	29	44	
6.	Y23BU5800		18	18	18	05	05	28	43	
7.	Y23BU5800		18	19	19	05	05	29	40	
8.	Y23BU5800		19	20	20	05	05	30	28	
9.	Y23BU5801	1 KAKI SARITHA	18	18	18	05	05	28	45	
10	Y23BU5801	2 KOJJA NEELIMA	18	19	19	05	05	29	42	
11	Y23BU5801	3 KOMPALLA KIRANMAI	18	18	18	05	05	28	38	
12	Y23BU5801	4 MOPARTHI ARCHANA	18	18	18	05	05	28	43	
13	Y23BU5801	5 MUNAGOTI VENNELA	20	20	20	05	05	30	32	
14	Y23BU5801		18	19	19	05	05	29	38	
15	Y23BU5801		18	18	18	05	05	28	43	
16	Y23BU5801	8 N. KAVYA MOUNIKA	18	19	19	05	05	29	48	
17	Y23BU5801		19	18	19	05	05	29	43	

Number of Students with Score

Percentage of students scoring

Direct attainment level of the Course

### ST. ANN'S COLLEGE FOR WOMEN

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Amaravathi Road, Gorantla, Guntur – 522034 (A.P) Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

Metric - 2.5.1

≥38 Marks

25

83.3%

3

>24

Marks

30

100%

3

**Criterion: II** 

18	Y23BU58020	ORSU SAILAJA	18	18	18	05	05	28	43
19	Y23BU58022	PATCHALA SIRISHA	20	20	20	05	05	30	42
20	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	18	19	05	05	29	44
21	Y23BU58024	POTLACHERUVU TRIVENI	19	18	19	05	05	29	43
22.	Y23BU58025	SHAIK KARISHMA	19	19	19	05	05	30	51
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	19	20	05	05	28	40
24	Y23BU58027	TADEPALLI POORNA JYOTHI	18	18	18	05	05	28	38
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	18	18	05	05	28	42
26	Y23BU58029	TURAKA SMILEY	19	18	19	05	05	29	38
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	42
28	Y23BU58032	YARRAM ANJALI	18	18	18	05	05	28	32
29.	Y23BU58033	YENUMULA JAYASRI	18	18	18	05	05	28	38
30	Y23BU58034	YERUVA ARPITHA	18	18	18	05	05	28	45
		A	Attainm	ent An	alysis				
					•			Internal	External
Total N	Number of Studen	ts Registered for the	e Examin	ation				30	30
Total N	Number of Studen	ts Absent for the Ex	amination	1				Nil	Nil
Total N	Number of Studen	ts Appeared for the	Examina	tion				30	30

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u> Total Number of students

# TANK PRICE TO HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi)

Amaravathi Road, Gorantla, Guntur – 522034 (A.P)

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment

 $= (0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$  Attained



(Affiliated to Acharya Nagarjuna University, Recognized Under Section 2(f) of UGC Act 1956-New Delhi) **Amaravathi Road, Gorantla, Guntur – 522034 (A.P)** 

Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric-2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartme	nt of ME	BA (PG)					
Batch	: 2022-2024	Program : MBA		Sen	nester :	III		Paper : Bus 3.2 (R22)		
Co		ECISION SUPPORT M & MIS		Co	ourse Te	acher:	DR.G.R	ADHIKA		
						al Mark (30)	S			
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)	
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	18	20	20	05	05	30	40	
2.	Y23BU58002		20	19	20	05	05	30	49	
3.	Y23BU58003		19	20	20	05	05	30	50	
4.	Y23BU58004		20	18	20	05	05	30	48	
5.	Y23BU58005		19	20	20	05	05	30	45	
6.	Y23BU58006		20	20	20	05	05	30	42	
7.	Y23BU58007		19	20	20	05	05	30	38	
8.	Y23BU58009		18	20	20	05	05	30	42	
9.	Y23BU58011	KAKI SARITHA	20	18	20	05	05	30	42	
10	Y23BU58012	2 KOJJA NEELIMA	19	20	20	05	05	30	38	
11	Y23BU58013	KOMPALLA KIRANMAI	20	19	20	05	05	30	42	
12	Y23BU58014	MOPARTHI ARCHANA	20	-	20	05	05	30	45	
13	Y23BU58015	MUNAGOTI VENNELA	20	19	20	05	05	30	49	
14	Y23BU58016		19	20	20	05	05	30	50	
15	Y23BU58017		20	19	20	05	05	30	38	
16	Y23BU58018	N.KAVYA MOUNIKA	20	19	20	05	05	30	50	
17	Y23BU58019		20	20	20	05	05	30	45	

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**Criterion: II** 

Metric - 2.5.1

18.	Y23BU58020	ORSU SAILAJA	19	20	20	05	05	30	48
19.	Y23BU58022	PATCHALA SIRISHA	20	19	20	05	05	30	49
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	20	20	05	05	30	48
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	-	20	05	05	30	50
22.	Y23BU58025	SHAIK KARISHMA	19	20	20	05	05	30	49
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	19	20	05	05	30	49
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	19	20	20	05	05	30	49
25.	Y23BU58028	THOTAKURA ANUSHA DEV	1	20	20	05	05	30	49
26.	Y23BU58029	TURAKA SMILEY	19	20	20	05	05	30	46
27.	Y23BU58030	VEDUKA BHAVANI	20	19	20	05	05	30	48
28.	Y23BU58032	YARRAM ANJALI	19	20	20	05	05	30	46
29.	Y23BU58033	YENUMULA JAYASRI	20	19	20	05	05	30	45
30.	Y23BU58034	YERUVA ARPITHA	20	-	20	05	05	30	48
			Attainm	ent An	alvsis			•	
								Internal	External
Total N	Number of Studen	ats Registered for the	e Examin	ation				30	30
Total N	Number of Studen	ts Absent for the Exa	amination	1				Nil	Nil
Total N	Number of Studen	ats Appeared for the	Examina	tion				30	30
			≥24 Marks	≥38 Marks					
Numbe	er of Students wit	h Score							
Numb	er of Students wit	h Score						30	30
	er of Students wit								30 100%

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u> Total Number of students

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartme	nt of ME	BA (PG)				
	: 2022-2024	Program : MBA		Sen	nester :	III		Paper : Bus 3.41 (R22)	
Cour		CURITY ANALYSIS & MANAGEMENT		C	ourse T	eacher :	MRS.J.S	SIRISHA	
						al Mark (30)	S		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	18	16	18	05	05	28	40
2.	Y23BU5800		18	15	18	05	05	28	41
3.	Y23BU5800		20	20	20	05	05	30	42
4.	Y23BU5800		18	-	18	05	05	28	42
5.	Y23BU5800		19	18	19	05	05	29	44
6.	Y23BU5800		19	16	19	05	05	29	45
7.	Y23BU5800		19	14	19	05	05	29	41
8.	Y23BU5800		20	18	20	05	05	30	42
9.	Y23BU5801	1 KAKI SARITHA	19	16	19	05	05	29	45
10	Y23BU5801	2 KOJJA NEELIMA	18	15	18	05	05	28	43
11	Y23BU5801	3 KOMPALLA KIRANMAI	18	16	18	05	05	28	43
12	Y23BU5801	4 MOPARTHI ARCHANA	20	-	20	05	05	30	40
13	Y23BU5801		19	18	19	05	05	29	43
14	Y23BU5801		19	16	19	05	05	29	42
15	Y23BU5801		18	15	18	05	05	28	42
16	Y23BU5801	8 N.KAVYA MOUNIKA	18	12	18	05	05	28	43
17	Y23BU5801		19	14	19	05	05	29	42

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**Criterion: II** 

**Metric** – **2.5.1** 

	Y23BU58020	ORSU SAILAJA	19	16	19	05	05	29	43
	Y23BU58022	PATCHALA SIRISHA	20	17	20	05	05	30	44
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	15	19	05	05	29	44
21.	Y23BU58024	POTLACHERUVU TRIVENI	19	-	19	05	05	29	46
22.	Y23BU58025	SHAIK KARISHMA	19	18	19	05	05	29	45
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	18	20	05	05	30	45
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	18	18	05	05	28	41
25.	Y23BU58028	THOTAKURA ANUSHA DEV	19	-	19	05	05	29	49
26.	Y23BU58029	TURAKA SMILEY	18	15	18	05	05	28	41
27.	Y23BU58030	VEDUKA BHAVANI	18	16	18	05	05	28	40
28.	Y23BU58032	YARRAM ANJALI	19	15	19	05	05	29	41
29.	Y23BU58033	YENUMULA JAYASRI	18	17	18	05	05	28	38
30.	Y23BU58034	YERUVA ARPITHA	18	-	18	05	05	28	42
		1	Attainm	ent An	alysis				
								Internal	External
Total N	Number of Studen	ts Registered for the	e Examina	ation				30	30
Total N	Number of Studen	ts Absent for the Exa	amination	1				Nil	Nil
Total N	Number of Studen	ts Appeared for the	Examinat	tion				30	30
Numbe	er of Students wit		≥24 Marks	≥38 Marks					
								30	30
Percen	tage of students s	coring						100%	100%
Direct	attainment level o	of the Course						3	3

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained

Total Number of students 30

### **Overall Attainment:**

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment =  $(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$  Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		De	epartmen	t of MB	A (PG)					
	: 2022-2024	Program : MBA		Ser	nester :	III		_	Paper: Bus 3.4HR (R22)	
Cour		USTRIAL RELATIONS OR LAWS			Course	Teacher	: DR.V.	VANI		
						ıl Marks 30)	}			
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)	
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	18	18	18	05	05	28	43	
2.	Y23BU58002		18	18	18	05	05	28	46	
3.	Y23BU58003		18	19	19	05	05	29	44	
4.	Y23BU58004		18	18	18	05	05	28	45	
5.	Y23BU5800:		18	19	19	05	05	29	46	
6.	Y23BU5800		18	18	18	05	05	28	49	
7.	Y23BU58007		18	19	19	05	05	29	43	
8.	Y23BU58009		19	20	20	05	05	30	45	
9.	Y23BU5801		18	18	18	05	05	28	50	
10	Y23BU58012	2 KOJJA NEELIMA	18	19	19	05	05	29	43	
11	Y23BU5801	3 KOMPALLA KIRANMAI	18	19	19	05	05	29	34	
12	Y23BU5801	4 MOPARTHI ARCHANA	18	18	18	05	05	28	41	
13	Y23BU5801:		20	20	20	05	05	30	39	
14	Y23BU58010		18	19	19	05	05	29	42	
15	Y23BU5801		18	18	18	05	05	28	43	
16	Y23BU5801	8 N. KAVYA MOUNIKA	18	18	18	05	05	28	43	
17	Y23BU58019		18	19	19	05	05	29	40	

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**Criterion: II** 

Metric - 2.5.1

	Y23BU58020	ORSU SAILAJA	18	18	18	05	05	28	37
19.	Y23BU58022	PATCHALA SIRISHA	20	20	20	05	05	30	43
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	18	19	19	05	05	29	41
21.	Y23BU58024	POTLACHERUVU TRIVENI	18	19	19	05	05	29	41
22.	Y23BU58025	SHAIK KARISHMA	19	19	19	05	05	29	45
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	19	20	20	05	05	30	45
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	18	18	05	05	28	43
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	18	18	05	05	28	40
26.	Y23BU58029	TURAKA SMILEY	18	19	19	05	05	29	38
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	39
28.	Y23BU58032	YARRAM ANJALI	18	19	19	05	05	29	39
29.	Y23BU58033	YENUMULA JAYASRI	18	18	18	05	05	28	39
30.	Y23BU58034	YERUVA ARPITHA	18	18	18	05	05	28	38
		A	ttainme	ent Ana	lysis				
					•			Internal	External
Total N	Number of Studen	ts Registered for the	Examina						
100011		8	- Emailin	ation				30	30
	Number of Studen	ts Absent for the Exa						30 Nil	30 Nil
Total N			amination	1					
Total N		its Absent for the Exacts Appeared for the	amination	1				Nil	Nil
Total N	Number of Studen	its Absent for the Exacts Appeared for the	amination	1				Nil 30 ≥24	Nil 30
Total N Total N	Number of Studen	its Absent for the Exacts Appeared for the h Score	amination	1				Nil 30 ≥24 Marks	Nil 30 ≥38 Marks

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartment	of MBA	(PG)				
Batch	: 2022-2024	Program : MBA		Semo	ester : II	I		-	: Bus 3.6F R22)
Cou	rse Name : BA	ASICS OF TAXATION	C	Course Te	eacher:	DR.P.L.	NARAS	SIMHA R	AO
				]	Internal (30				
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten danc e/Se mina rs	Total	External Marks (70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	16	17	17	05	05	27	48
2.	Y23BU58002		18	19	19	05	05	29	43
3.	Y23BU58003	BAYANABOINA NANDINI	17	18	18	05	05	28	52
4.	Y23BU58004	CHAVVAKULA AKHILA	16	17	17	05	05	27	48
5.	Y23BU58005	CHOKKA BHUVANESWARI	16	17	17	05	05	27	53
6.	Y23BU58006	GADDAM LAKSHMI DURGA	18	19	19	05	05	29	51
7.	Y23BU58007	GUDIMETLA MERI RANI	15	16	16	05	05	26	52
8.	Y23BU58009	) IMADABATHII MOUNIKA	17	18	18	05	05	28	51
9.	Y23BU58011	KAKI SARITHA	18	19	19	05	05	29	50
10	Y23BU58012	2 KOJJA NEELIMA	17	18	18	05	05	28	52
11	Y23BU58013	KOMPALLA KIRANMAI	17	18	18	05	05	28	52
12	Y23BU58014	MOPARTHI ARCHANA	18	19	19	05	05	29	43
13	Y23BU58015		16	17	17	05	05	27	51
14	Y23BU58016		17	18	18	05	05	28	51
15	Y23BU58017		18	19	19	05	05	29	46
16	Y23BU58018	N.KAVYA MOUNIKA	15	16	16	05	05	26	53
17	Y23BU58019	NELAPATI MADHAVI	17	18	18	05	05	28	50

## SAND MEET HUMAN

18 Y23BU58020 ORSU SAILAJA

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05

**Criterion: II** 

Metric – 2.5.1

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10.	1230038020	ORSU SAILAJA	1 /	10	10	03	03	20	20
19.	Y23BU58022	PATCHALA SIRISHA	18	19	19	05	05	29	51
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	17	18	18	05	05	28	52
21.	Y23BU58024	P. TRIVENI	18	19	19	05	05	29	51
22.	Y23BU58025	SHAIK KARISHMA	17	18	18	05	05	28	52
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	17	18	18	05	05	28	52
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	17	18	18	05	05	28	42
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	19	19	05	05	29	41
26.	Y23BU58029	TURAKA SMILEY	16	17	17	05	05	27	48
27.	Y23BU58030	VEDUKA BHAVANI	16	17	17	05	05	27	45
28.	Y23BU58032	YARRAM ANJALI	15	16	16	05	05	26	44
29.	Y23BU58033	YENUMULA JAYASRI	16	17	17	05	05	27	48
30.	Y23BU58034	YERUVA ARPITHA	17	18	18	05	05	28	43
		1	Attainme	nt Anal	ysis				
								Internal	External
Total N	Number of Studer	nts Registered for the	e Examinati	on				30	30
Total N	Number of Studer	nts Absent for the Exa	amination					Nil	Nil
Total N	Number of Studer	nts Appeared for the	Examinatio	n				30	30
Numb	er of Students wit	h Score						≥24 Marks	≥38 Marks
									30
Percen	tage of students s	scoring						100%	100%
Direct	attainment level	of the Course						3	3
								1	1

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained
Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		De	partment	of MBA	(PG)				
Batch	: 2022-2024	Program : MBA		Sen	nester : I	II		_	: Bus 3.5 (R22)
(		: MANAGEMENT NG & HRD		Cou	rse Teac	her: DI	R.G.RAI	OHIKA	
					Interna (3	l Marks 0)			Externa
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	l Marks(7 0)
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	19	20	20	05	05	30	39
2.	Y23BU58002		20	19	20	05	05	30	38
3.	Y23BU58003		18	20	20	05	05	30	40
4.	Y23BU58004		-	20	20	05	05	30	42
5.	Y23BU5800:		18	20	20	05	05	30	40
6.	Y23BU5800		20	19	20	05	05	30	44
7.	Y23BU5800		20	19	20	05	05	30	38
8.	Y23BU58009		20	19	20	05	05	30	42
9.	Y23BU5801		19	20	20	05	05	30	43
10	Y23BU58012	2 KOJJA NEELIMA	20	19	20	05	05	30	40
11	Y23BU5801	3 KOMPALLA KIRANMAI	19	20	20	05	05	30	42
12	Y23BU5801	4 MOPARTHI ARCHANA	20	-	20	05	05	30	48
13	Y23BU5801:		18	20	20	05	05	30	41
14	Y23BU5801		20	19	20	05	05	30	43
15	Y23BU5801		19	20	20	05	05	30	42
16	Y23BU5801	8 N. KAVYA MOUNIKA	20	18	20	05	05	30	42
17	Y23BU58019		18	20	20	05	05	30	41

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

18	Y23BU58020	ORSU SAILAJA	19	20	20	05	05	30	42
	Y23BU58022	PATCHALA	20	19	20	05	05	30	
19.	1230038022	SIRISHA	20	19	20	03	03	30	44
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	20	20	05	05	30	43
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	-	20	05	05	30	44
22.	Y23BU58025	SHAIK KARISHMA	19	20	20	05	05	30	42
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	19	20	05	05	30	43
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	19	20	20	05	05	30	43
25.	Y23BU58028	THOTAKURA ANUSHA DEV	-	20	20	05	05	30	42
26.	Y23BU58029	TURAKA SMILEY	19	20	20	05	05	30	42
27.	Y23BU58030	VEDUKA BHAVANI	20	19	20	05	05	30	38
28.	Y23BU58032	YARRAM ANJALI	-	20	20	05	05	30	40
29.	Y23BU58033	YENUMULA JAYASRI	20	19	20	05	05	30	40
30.	Y23BU58034	YERUVA ARPITHA	20	-	20	05	05	30	43
		A	ttainme	nt Anal	ysis				
								Internal	Externa
Total N	Number of Studer	ts Registered for the	Examinat	ion				30	
Total N								30	30
	Number of Studer	nts Absent for the Exa	amination					Nil	30 Nil
		nts Absent for the Exacts Appeared for the		on					
				on				Nil	Nil
Гotal N		ats Appeared for the		on				Nil 30	Nil 30
Γotal N	Number of Studer	ats Appeared for the		on				Nil 30 ≥24	Nil 30 ≥38
Γotal N	Number of Studer	h Score		on				Nil 30 ≥24 Marks	Nil 30 ≥38 Marks

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** 

CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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### ST. ANN'S COLLEGE FOR WOMEN

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained

Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

**Metric** – **2.5.1** 

### ATTAINMENT OF COURSE OUTCOMES

		D	<b>Departme</b> i	nt of MBA	(PG)				
Batch	: 2022-2024	Program : MBA		Sem	ester : IV	I		Paper : Bus 4.1 (R22)	
Co	urse Name : G	GLOBAL BUSINESS		Cou	rse Teac	her: Dl	R.G.RA	DHIKA	
					Internal (30				
S. No	Kead No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atte ndan ce/Se mina rs	Total	External Marks (70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	19	10	19	05	05	29	28
2.	Y23BU58002	BHUNATTULA HEMALATHA	18	13	18	05	05	28	32
3.	Y23BU58003	BAYANABOINA NANDINI	20	11	20	05	05	30	42
4.	Y23BU58004	CHAVVAKULA AKHILA	18	14	18	05	05	28	38
5.	Y23BU58005	CHOKKA BHUVANESWARI	19	18	19	05	05	29	48
6.	Y23BU58006	GADDAM LAKSHMI DURGA	19	16	19	05	05	29	52
7.	Y23BU58007	7 GUDIMETLA MERI RANI	18	15	18	05	05	28	40
8.	Y23BU58009	) IMADABATHII MOUNIKA	20	12	20	05	05	30	32
9.	Y23BU58011	KAKI SARITHA	18	13	18	05	05	28	52
10	Y23BU58012	2 KOJJA NEELIMA	18	14	18	05	05	28	38
11	Y23BU58013	KOMPALLA KIRANMAI	19	15	19	05	05	29	32
12	Y23BU58014	MOPARTHI ARCHANA	19	16	19	05	05	29	49
13	Y23BU58015	MUNAGOTI VENNELA	19	17	19	05	05	29	43
14	Y23BU58016	NALLAMEKALA MANUSHA	19	18	19	05	05	29	41
15	Y23BU58017		19	19	19	05	05	29	40
16		MOUNIKA	18	18	18	05	05	28	42
17	Y23BU58019	NELAPATI MADHAVI	19	16	19	05	05	29	32

Number of Students with Score

Percentage of students scoring

Direct attainment level of the Course

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**Criterion: II** 

**Metric – 2.5.1** 

>38

Marks

24

82.7%

3

≥24

Marks

30

100%

3

18.	Y23BU58020	ORSU SAILAJA	18	18	18	05	05	28	38
19.	Y23BU58022	PATCHALA SIRISHA	19	16	19	05	05	29	42
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	15	19	05	05	29	54
21.	Y23BU58024	P. TRIVENI	18	14	18	05	05	28	48
22.	Y23BU58025	SHAIK KARISHMA	19	15	19	05	05	29	50
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	19	16	19	05	05	29	52
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	16	18	05	05	28	40
25.	Y23BU58028	THOTAKURA ANUSHA DEV	19	15	19	05	05	29	52
26.	Y23BU58029	TURAKA SMILEY	19	14	19	05	05	29	38
27.	Y23BU58030	VEDUKA BHAVANI	18	15	18	05	05	28	47
28.	Y23BU58032	YARRAM ANJALI	19	16	19	05	05	29	38
29.	Y23BU58033	YENUMULA JAYASRI	19	14	19	05	05	29	45
30.	Y23BU58034	YERUVA ARPITHA	19	10	19	05	05	29	A
		1	Attainm	ent Anal	ysis				
								Internal	External
Total N	Number of Studer	nts Registered for the	e Examina	ation				30	30
Total N	Number of Studer	nts Absent for the Exa	amination					Nil	01
Total N	Number of Studer	nts Appeared for the	Examinat	ion				30	29

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

	Department of MBA (PG)													
	: 2022-2024	Program : MBA		Sen	nester : I	V		_	r: Bus 4.2 (R22)					
(		: KNOWLEDGE GEMENT			Course	Teacher	: DR.V	.VANI						
					Internal									
S. No	Regd. No	Student Name	I Mid Exa m	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atte ndan ce/Se mina rs	Total	External Marks(70)					
1.	Y23BU5800	1 ALLARI SNEHA GAYATHRI	-	20	20	05	05	30	45					
2.	Y23BU5800		18	-	18	05	05	28	48					
3.	Y23BU5800		20	20	20	05	05	30	45					
4.	Y23BU5800	4 CHAVVAKULA AKHILA	-	19	19	05	05	29	45					
5.	Y23BU5800	5 CHOKKA BHUVANESWARI	-	20	20	05	05	30	48					
6.	Y23BU5800	6 GADDAM LAKSHMI DURGA	-	20	20	05	05	30	48					
7.	Y23BU5800		20	19	20	05	05	30	48					
8.	Y23BU5800	9 IMADABATHII MOUNIKA	-	20	20	05	05	30	45					
9.	Y23BU5801	1 KAKI SARITHA	-	18	18	05	05	28	45					
10.	Y23BU5801	TI O TOTAL T	19	20	20	05	05	30	48					
11.	Y23BU5801	3 KOMPALLA KIRANMAI	-	18	18	05	05	28	49					
12.	Y23BU5801	4 MOPARTHI ARCHANA	-	20	20	05	05	30	48					
13.	Y23BU5801	5 MUNAGOTI VENNELA	20	20	20	05	05	30	48					
14.	Y23BU5801	6 NALLAMEKALA MANUSHA	20	19	20	05	05	30	50					
15.	Y23BU5801	7 N.P.L. SANGHAVI	19	18	19	05	05	29	48					
16.	Y23BU5801	8 N.KAVYA MOUNIKA	-	18	18	05	05	28	50					
17.	Y23BU5801	9 NELAPATI MADHAVI	20	19	20	05	05	30	49					

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### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

18.	Y23BU58020	ORSU SAILAJA	19	20	20	05	05	30	40
19.	Y23BU58022	PATCHALA SIRISHA	20	20	20	05	05	30	49
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	-	20	20	05	05	30	50
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	19	20	05	05	30	48
22.	Y23BU58025	SHAIK KARISHMA	-	20	20	05	05	30	49
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	20	20	05	05	30	50
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	19	18	19	05	05	29	50
25.	Y23BU58028	THOTAKURA ANUSHA DEV	-	20	20	05	05	30	48
26.	Y23BU58029	TURAKA SMILEY	19	20	20	05	05	30	45
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	42
28.	Y23BU58032	YARRAM ANJALI	-	20	20	05	05	30	40
29.	Y23BU58033	YENUMULA JAYASRI	-	20	20	05	05	30	45
30.	Y23BU58034	YERUVA ARPITHA	-	18	18	05	05	28	A
		A	Attainn	nent Ana	alysis				
								Internal	External
Total N	umber of Student	s Registered for the	Examin	nation				30	30
Total N	umber of Student	s Absent for the Exa	minatio	n				Nil	01
Γotal N	umber of Student	s Appeared for the I	Examina	ntion				30	29
Number	r of Students with	Score						≥24 Marks	≥38 Marks
								30	29
Percent	age of students so	coring						100%	100%
Direct a	attainment level o	f the Course						3	3
								1	

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained

Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		De	epartmen	t of MB	A (PG)				
Batch	: 2022-2024	Program : MBA		Sen	nester :	IV		-	: Bus 4.4 F (R22)
Cours	se Name : FINA	ANCIAL DERIVATIVES		Course	Teacher	: DR.P.	L.NARA	SIMHA	RAO
						al Marks 30)	S		
S. No	. Y23BU58001 ALLARI SNEHA GAYATHRI . Y23BU58002 BHUNATTULA	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU5800		-	17	17	05	05	27	40
2.	Y23BU58002	BHUNATTULA HEMALATHA	-	17	17	05	05	27	60
3.	Y23BU58003	NANDINI	ı	16	16	05	05	26	48
4.	Y23BU58004	4 CHAVVAKULA AKHILA	-	18	18	05	05	28	42
5.	Y23BU58003	5 CHOKKA BHUVANESWARI	-	17	17	05	05	27	41
6.	Y23BU58000	GADDAM LAKSHMI DURGA	-	17	17	05	05	27	45
7.	Y23BU58007	7 GUDIMETLA MERI RANI	-	18	18	05	05	28	39
8.	Y23BU58009	9 IMADABATHII MOUNIKA	-	18	18	05	05	28	35
9.	Y23BU5801	l KAKI SARITHA	-	18	18	05	05	28	45
10	Y23BU58012	2 KOJJA NEELIMA	-	17	17	05	05	27	46
11	Y23BU58013	3 KOMPALLA KIRANMAI	-	19	19	05	05	29	30
12	Y23BU58014		-	18	18	05	05	28	51
13	Y23BU5801:		-	17	17	05	05	27	45
14	Y23BU58010		-	16	16	05	05	26	34
15	Y23BU58017	7 N.P.L.SANGHAVI	-	17	17	05	05	27	45
16	Y23BU58018	8 N. KAVYA MOUNIKA	-	18	18	05	05	28	45
17	Y23BU58019	9 NELAPATI MADHAVI	-	18	18	05	05	28	36

### STANSFREE MAN

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**Criterion: II** 

**Metric – 2.5.1** 

10 3	Y23BU58020	ORSU SAILAJA	-	19	19	05	05	29	34
19 \	Y23BU58022	PATCHALA SIRISHA	-	18	18	05	05	28	40
20 \	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	-	18	18	05	05	28	39
21 \	Y23BU58024	P.TRIVENI	-	17	17	05	05	27	41
22. \	Y23BU58025	SHAIK KARISHMA	-	18	18	05	05	28	30
23. Y	Y23BU58026	SARIPATHI RAJA RAJESWARI	-	18	18	05	05	28	47
24 \	Y23BU58027	TADEPALLI POORNA JYOTHI	-	18	18	05	05	28	45
25 Y	Y23BU58028	THOTAKURA ANUSHA DEV	-	18	18	05	05	28	50
26	Y23BU58029	TURAKA SMILEY	-	16	16	05	05	26	39
27. \	Y23BU58030	VEDUKA BHAVANI	-	18	18	05	05	28	32
28	Y23BU58032	YARRAM ANJALI	-	16	16	05	05	26	36
29 \	Y23BU58033	YENUMULA JAYASRI	-	17	17	05	05	27	40
30 \	Y23BU58034	YERUVA ARPITHA	-	18	18	05	05	28	A
		A	ttainm	ent Ana	lysis				
								T . 1	_ 1
								Internal	External
Total Nu	ımber of Studen	ts Registered for the	e Examin	ation				Internal 30	External 30
		ts Registered for the							
Total Nu	umber of Studen	_	aminatior	1				30	30
Total Nu	umber of Studen	ts Absent for the Exacts Appeared for the	aminatior	1				30 Nil	30 01 29 ≥38 Marks
Total Nu	umber of Studen	ts Absent for the Exacts Appeared for the	aminatior	1				30 Nil 30 ≥24	30 01 29
Total Nu Total Nu Number	umber of Studen	ts Absent for the Exacts Appeared for the h Score	aminatior	1				30 Nil 30 ≥24 Marks	30 01 29 ≥38 Marks

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

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**Criterion: II** 

**Metric – 2.5.1** 

= No. students given 3.0 or more rating = 
$$30$$
 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartmen	t of MB	A (PG)				
	: 2022-2024	Program : MBA		Ser	nester :	IV		Paper : Bus 4.5 (R22)	
Co		MANAGEMENT OF L SERVICES		Co	ourse Te	acher : I	OR.G.RA	DHIKA	
						al Marks 30)	S		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU5800	ALLARI SNEHA GAYATHRI	18	19	19	05	05	29	49
2.	Y23BU58002		19	18	19	05	05	29	50
3.	Y23BU58003		19	16	19	05	05	29	45
4.	Y23BU58004	4 CHAVVAKULA AKHILA	19	15	19	05	05	29	46
5.	Y23BU58003		19	14	19	05	05	29	45
6.	Y23BU58000		18	19	19	05	05	29	47
7.	Y23BU58007		19	10	19	05	05	29	46
8.	Y23BU58009		19	14	19	05	05	29	50
9.	Y23BU5801	l KAKI SARITHA	19	13	19	05	05	29	51
10	Y23BU58012	2 KOJJA NEELIMA	19	12	19	05	05	29	46
11	Y23BU58013	3 KOMPALLA KIRANMAI	18	19	19	05	05	29	44
12	Y23BU58014	4 MOPARTHI ARCHANA	19	11	19	05	05	29	40
13	Y23BU5801:		19	15	19	05	05	29	49
14	Y23BU58010		18	19	19	05	05	29	45
15	Y23BU58017		19	13	19	05	05	29	54
16	Y23BU58018	N. KAVYA MOUNIKA	19	12	19	05	05	29	45
17	Y23BU58019		18	19	19	05	05	29	51

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### ST. ANN'S COLLEGE FOR WOMEN

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

18.	Y23BU58020	ORSU SAILAJA	19	14	19	05	05	29	50
19	Y23BU58022	PATCHALA SIRISHA	18	19	19	05	05	29	51
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	18	19	19	05	05	29	47
21.	Y23BU58024	POTLACHERUVU TRIVENI	19	15	19	05	05	29	47
22.	Y23BU58025	SHAIK KARISHMA	19	16	19	05	05	29	50
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	19	12	19	05	05	29	51
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	19	13	19	05	05	29	47
25.	Y23BU58028	THOTAKURA ANUSHA DEV	19	14	19	05	05	29	41
26	Y23BU58029	TURAKA SMILEY	19	17	19	05	05	29	47
27.	Y23BU58030	VEDUKA BHAVANI	19	17	19	05	05	29	51
28.	Y23BU58032	YARRAM ANJALI	19	15	19	05	05	29	47
29.	Y23BU58033	YENUMULA JAYASRI	19	16	19	05	05	29	47
30.	Y23BU58034	YERUVA ARPITHA	19	15	19	05	05	29	A
		A	Attainm	ent Ana	alysis				
					_			Internal	External
Total N	Number of Studen	nts Registered for th	e Examin	ation				30	30
Total N	Number of Studen	nts Absent for the Ex	aminatior	1				Nil	01
Total N	Number of Studen	nts Appeared for the	Examina	tion				30	29
Numb	er of Students wit	h Score						≥24 Marks	≥38 Marks
								30	29
Percen	tage of students s	scoring						100%	100%
Direct	attainment level	of the Course						3	3

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

# TANK PRICE TO HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

**Metric** – **2.5.1** 

### ATTAINMENT OF COURSE OUTCOMES

		υ ————————————————————————————————————	epartmen -	IL OI MIB	A (PG)		1		D 465
Batch	: 2022-2024	Program : MBA		Ser	nester :	IV		-	: Bus 4.6 F (R22)
Cour	se Name : CO	RPORATE TAXATION		Course	Teacher	: DR.P.	L.NARA	SIMHA	RAO
						al Marks 30)	5		
S. No	GAYATHRI		I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU5800		-	18	18	05	05	28	38
2.	Y23BU58002	2 BHUNATTULA HEMALATHA	-	15	15	05	05	25	41
3.	Y23BU58003	BAYANABOINA NANDINI	-	17	17	05	05	27	41
4.	Y23BU58004	4 CHAVVAKULA AKHILA	-	16	16	05	05	26	38
5.	Y23BU5800:	5 CHOKKA BHUVANESWARI	-	18	18	05	05	28	26
6.	Y23BU58000	GADDAM LAKSHMI DURGA	-	17	17	05	05	27	41
7.	Y23BU5800	7 GUDIMETLA MERI RANI	-	17	17	05	05	27	40
8.	Y23BU58009	9 IMADABATHII MOUNIKA	-	17	17	05	05	27	38
9.	Y23BU5801	l KAKI SARITHA	-	18	18	05	05	28	36
10.	Y23BU58012	2 KOJJA NEELIMA	-	18	18	05	05	28	38
11.	Y23BU5801	3 KOMPALLA KIRANMAI	-	17	17	05	05	27	38
12.	Y23BU5801	4 MOPARTHI ARCHANA	-	15	15	05	05	25	43
13.	Y23BU5801:	VENNELA	-	17	17	05	05	27	41
14.	Y23BU58010	6 NALLAMEKALA MANUSHA	-	18	18	05	05	28	38
15.	Y23BU5801	7 N.P.L. SANGHAVI	-	17	17	05	05	27	38
16	Y23BU5801	N. KAVYA MOUNIKA	-	18	18	05	05	28	42
17.	Y23BU58019	9 NELAPATI MADHAVI	-	18	18	05	05	28	35

### STANFORMER THURS

### ST. ANN'S COLLEGE FOR WOMEN

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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric – 2.5.1** 

18.	Y23BU58020	ORSU SAILAJA	-	17	17	05	05	27	35
19.	Y23BU58022	PATCHALA SIRISHA	-	18	18	05	05	28	42
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	-	19	19	05	05	29	39
21.	Y23BU58024	POTLACHERUVU TRIVENI	-	18	18	05	05	28	44
22.	Y23BU58025	SHAIK KARISHMA	-	18	18	05	05	28	43
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	-	18	18	05	05	28	42
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	-	19	19	05	05	29	42
25.	Y23BU58028	THOTAKURA ANUSHA DEV	-	15	15	05	05	25	43
26.	Y23BU58029	TURAKA SMILEY	-	19	19	05	05	29	40
27.	Y23BU58030	VEDUKA BHAVANI	-	16	16	05	05	26	40
28.	Y23BU58032	YARRAM ANJALI	-	16	16	05	05	26	38
29.	Y23BU58033	YENUMULA JAYASRI	-	18	18	05	05	28	38
30.	Y23BU58034	YERUVA ARPITHA	-	15	15	05	05	25	A
		F	Attainm	ent Ana	alysis				
								Internal	External
Total N	Number of Studen	ts Registered for th	e Examina	ation				30	30
Total N	Number of Studen	ts Absent for the Ex	amination	1				Nil	01
Total N	Number of Studen	ts Appeared for the	Examinat	tion				30	29
Numbe	er of Students wit	h Score						≥24 Marks	≥38 Marks
								30	25
Percen	tage of students s	scoring						100%	86.2%
Direct	attainment level	of the Course						3	3

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

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### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		Dej	partmen	t of MB	A (PG)						
Batch	: 2022-2024	Program : MBA	Semester : IV					_	Paper: Bus 4.4 HR (R22)		
Cours		ERNATIONAL HUMAN MANAGEMENT		Course Teacher: DR.V.VANI							
					Interna (3	l Mark (0)	S				
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nme nts	Atte ndan ce/Se mina rs	Total	External Marks(70)		
1.	Y23BU5800	)1 ALLARI SNEHA GAYATHRI	-	18	18	05	05	28	34		
2.	Y23BU5800		-	18	18	05	05	28	48		
3.	Y23BU5800		18	19	19	05	05	29	44		
4.	Y23BU5800	)4 CHAVVAKULA AKHILA	-	18	18	05	05	28	34		
5.	Y23BU5800	)5 CHOKKA BHUVANESWARI	20	20	20	05	05	30	45		
6.	Y23BU5800	6 GADDAM LAKSHMI DURGA	-	19	19	05	05	29	44		
7.	Y23BU5800	)7 GUDIMETLA MERI RANI	20	19	20	05	05	30	38		
8.	Y23BU5800	9 IMADABATHII MOUNIKA	-	20	20	05	05	30	34		
9.	Y23BU5801	1 KAKI SARITHA	-	19	19	05	05	29	46		
10	Y23BU5801	2 KOJJA NEELIMA	18	19	19	05	05	29	39		
11.	Y23BU5801	3 KOMPALLA KIRANMAI	-	19	19	05	05	29	38		
12	Y23BU5801	4 MOPARTHI ARCHANA	-	18	18	05	05	28	38		
13	Y23BU5801		20	20	20	05	05	30	41		
14	Y23BU5801		20	19	20	05	05	30	34		
15	Y23BU5801		-	19	19	05	05	29	41		
16	Y23BU5801	8 N. KAVYA MOUNIKA	18	18	18	05	05	28	39		
17.	Y23BU5801		20	19	20	05	05	30	33		

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**Criterion: II** 

**Metric – 2.5.1** 

18.	Y23BU58020	ORSU SAILAJA	-	19	19	05	05	29	38
	Y23BU58022	PATCHALA SIRISHA	20	20	20	05	05	30	40
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	-	20	20	05	05	30	39
21.	Y23BU58024	POTLACHERUVU TRIVENI	20	20	20	05	05	30	38
22.	Y23BU58025	SHAIK KARISHMA	-	19	19	05	05	29	38
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	20	20	20	05	05	30	43
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	20	19	20	05	05	30	38
25.	Y23BU58028	THOTAKURA ANUSHA DEV	-	18	18	05	05	28	38
26.	Y23BU58029	TURAKA SMILEY	20	19	20	05	05	30	38
27.	Y23BU58030	VEDUKA BHAVANI	20	20	20	05	05	30	38
28.	Y23BU58032	YARRAM ANJALI	1	20	20	05	05	30	33
29.	Y23BU58033	YENUMULA JAYASRI	20	19	20	05	05	30	40
30.	Y23BU58034	YERUVA ARPITHA	-	18	18	05	05	28	A
		Aı	ttainm	ent Ana	alysis		•		
								Internal	External
Total N	Number of Studer	nts Registered for the	e Exami	nation				30	30
Total N	Number of Studer	nts Absent for the Ex	aminatio	n				Nil	01
Total N	Number of Studer	nts Appeared for the	Examin	ation				30	29
Number of Students with Score							≥24		
Numbe	er of Students wit	h Score						≥24 Marks	≥38 Marks
Numbe	er of Students wit	h Score							≥38 Marks
	er of Students wit							Marks	

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

# TANK PRICE TO HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric – 2.5.1

Therefore, CO Attainment (Indirect) =  $\underline{\text{Sum of the student responses which reached threshold level}}$ 

Total Number of students

= No. students given 3.0 or more rating =  $\underline{13}$  = 100% = 3 Attained Total Number of students 13

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric-2.5.1

### ATTAINMENT OF COURSE OUTCOMES

		D	epartme	nt of ME	BA (PG)				
	: 2022-2024		Sen	nester :	IV		_	: Bus 4.6 R(R22)	
C	ourse Name : ( MANAG	COMPENSATION EMENT		C	ourse Te	acher:	MRS.J.S		
						al Mark (30)	S		
S. No	Regd. No	Student Name	I Mid Exam	II Mid Exam	Best of I&II Mid Exam	Assig nment s	Atten dance /Semi nars	Total	External Marks(70)
1.	Y23BU58001	ALLARI SNEHA GAYATHRI	18	19	19	05	05	29	33
2.	Y23BU58002		18	19	19	05	05	29	47
3.	Y23BU58003		19	20	20	05	05	30	43
4.	Y23BU58004		18	19	19	05	05	29	33
5.	Y23BU58005		18	19	19	05	05	29	46
6.	Y23BU58006	GADDAM LAKSHMI DURGA	19	20	20	05	05	30	43
7.	Y23BU58007	GUDIMETLA MERI RANI	18	19	19	05	05	29	38
8.	Y23BU58009	IMADABATHII MOUNIKA	19	20	20	05	05	30	34
9.	Y23BU58011	KAKI SARITHA	18	19	19	05	05	29	46
10	Y23BU58012	KOJJA NEELIMA	18	19	19	05	05	29	39
11	Y23BU58013	KOMPALLA KIRANMAI	17	19	19	05	05	29	38
12	Y23BU58014	MOPARTHI ARCHANA	18	20	20	05	05	30	34
13	Y23BU58015	MUNAGOTI VENNELA	18	19	19	05	05	29	42
14	Y23BU58016		19	20	20	05	05	30	34
15	Y23BU58017		19	20	20	05	05	30	40
16	Y23BU58018	N. KAVYA MOUNIKA	18	19	19	05	05	29	38
17	Y23BU58019		18	19	19	05	05	29	34

### SAND MEET HUMAN

### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

**Metric – 2.5.1** 

19.	Y23BU58022	PATCHALA SIRISHA	18	19	19	05	05	29	41
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	19	20	20	05	05	30	39
21.	Y23BU58024	POTLACHERUVU TRIVENI	19	20	20	05	05	30	38
22.	Y23BU58025	SHAIK KARISHMA	19	20	20	05	05	30	38
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	19	20	20	05	05	30	43
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	18	19	19	05	05	29	38
25.	Y23BU58028	THOTAKURA ANUSHA DEV	18	19	19	05	05	29	38
26.	Y23BU58029	TURAKA SMILEY	17	18	18	05	05	28	40
27.	Y23BU58030	VEDUKA BHAVANI	19	20	20	05	05	30	38
28.	Y23BU58032	YARRAM ANJALI	18	19	19	05	05	29	34
29.	Y23BU58033	YENUMULA JAYASRI	18	19	19	05	05	29	41
30.	Y23BU58034	YERUVA ARPITHA	18	19	19	05	05	29	41

	Internal	External
Total Number of Students Registered for the Examination	30	30
Total Number of Students Absent for the Examination	Nil	01
Total Number of Students Appeared for the Examination	30	29
Number of Students with Score	≥24 Marks	≥38 Marks
	30	23
Percentage of students scoring	100%	79.3%
Direct attainment level of the Course	3	3
<del>-</del>		

Therefore, Overall Course Direct Attainment =  $(0.30\times3) + (0.70\times3) = 3$  = **Attained** CO Attainment (Indirect) = Sum of the student responses which reached threshold level

Total Number of students

### TANK PILET BURNE

### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

Therefore, CO Attainment (Indirect) = <u>Sum of the student responses which reached threshold level</u>

Total Number of students

= No. students given 3.0 or more rating = 30 = 100% = 3 Attained Total Number of students 30

Overall CO Attainment of the Course = 90% of Direct CO Attainment + 10% of Indirect CO Attainment = 
$$(0.90 \times 3) + (0.10 \times 3) = 2.70 + 0.30 = 3$$
 Attained



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**Criterion: II** 

Metric - 2.5.1

### **MOOCS**

DEPARTMENT OF MBA							
Batch	n: 2022-24	Progra	m:MBA	Semester : II	Course code : MBA		
Acade	emic year :						
20	)22-23						
			Course Na	me: MOOCS I	<del>,</del>		
S.No	Regd.		Stı	ıdent Name	Total (100)		
1.	Y23BU5800		ALLARI SNE	HA GAYATHRI	65		
2.	Y23BU58002		BHUNATTUI	LA HEMALATHA	73		
3.	Y23BU58003		BAYANABOI	NA NANDINI	62		
4.	Y23BU58004		CHAVVAKUI	LA AKHILA	84		
5.	Y23BU58005		CHOKKA BH	IUVANESWARI	93		
6.	Y23BU58000	5	GADDAM LA	AKSHMI DURGA	66		
7.	Y23BU58007		GUDIMETLA	MERI RANI	90		
8.	Y23BU58009	)	IMADABATH	III MOUNIKA	99		
9.	Y23BU58011		KAKI SARIT	HA	88		
10.	Y23BU58012	2	KOJJA NEEL	IMA	94		
11.	Y23BU58013	3	KOMPALLA	KIRANMAI	96		
12.	Y23BU58014	4	MOPARTHI A	ARCHANA	98		
13.	Y23BU58013	5	MUNAGOTI	VENNELA	84		
14.	Y23BU58016	6	NALLAMEK.	ALA MANUSHA	99		
15.	Y23BU58017	7	NANDIVELU LAKSHMI SA	IGU PHANIGNIGNANA ANGHAVI	62		
16.	Y23BU58018	3	NEERUKONI	DA KAVYA MOUNIKA	85		
17.	Y23BU58019	)	NELAPATI M	ADHAVI	90		
18.	Y23BU58020	)	ORSU SAILA	JA	88		
19.	Y23BU58022	2	PATCHALA S	SIRISHA	78		
20.	Y23BU58023	3	PITTALA SIV	'A NAGA LAKSHMI	88		
21.	Y23BU58024	4	POTLACHER	UVU TRIVENI	81		
22.	Y23BU58025	5	SHAIK KARI	SHMA	79		
23.	Y23BU58020	5	SARIPATHI R	RAJA RAJESWARI	76		
24.	Y23BU58027	7	TADEPALLI	POORNA JYOTHI	86		
25.	Y23BU58028	3	THOTAKURA	A ANUSHA DEV	100		
26.	Y23BU58029	)	TURAKA SM	ILEY	79		
27.	Y23BU58030	)	VEDUKA BH	AVANI	86		
28.	Y23BU58032	2	YARRAM AN	IJALI	89		



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**Metric** – **2.5.1** 

**Criterion: II** 

 29.
 Y23BU58033
 YENUMULA JAYASRI
 100

 30.
 Y23BU58034
 YERUVA ARPITHA
 86

		00
	<b>Attainment Analysis</b>	
	MOOCS-I	
Total Number of Students Regist	ered for the Examination	30
Total Number of Students Absen	t for the Examination	Nil
Total Number of Students Appea	red for the Examination	30
Number of Students with Score		≥40 Marks
Number of Students with Score		30
Percentage of students scoring		100%
Direct attainment level of the Co	urse	3

DEPARTMENT OF MBA							
Batch	Batch: 2022-24 Progra		m: MBA	Semester : III	Course code : MBA		
Acade	emic year:						
20	023-24						
			Course Na	me: MOOCS II			
S.No	Regd.	No	Stu	ident Name	<b>Total (100)</b>		
1.	Y23BU5800	1	ALLARI SNE	CHA GAYATHRI	56		
2.	Y23BU58002		BHUNATTUI	LA HEMALATHA	95		
3.	Y23BU58003		BAYANABOI	NA NANDINI	94		
4.	Y23BU58004	04 CHAVVAK		LA AKHILA	72		
5.	Y23BU58005	5	CHOKKA BH	IUVANESWARI	94		
6.	Y23BU58000	6	GADDAM LA	AKSHMI DURGA	59		
7.	Y23BU58007	7	GUDIMETLA	MERI RANI	81		
8.	Y23BU58009	)	IMADABATH	HII MOUNIKA	85		
9.	Y23BU58011		KAKI SARITHA		89		
10.	Y23BU58012	2 KOJJA NEEI		IMA	96		
11.	Y23BU58013	8013 KOMPALI		KIRANMAI	91		
12.	Y23BU58014	1	MOPARTHI A	ARCHANA	100		



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Email: st\_anns\_coll@yahoo.co.in Website: www.stannscollegeforwomen.org

**Criterion: II** 

**Metric** – **2.5.1** 

13.	Y23BU58015	MUNAGOTI VENNELA	77
14.	Y23BU58016	NALLAMEKALA MANUSHA	83
15.	Y23BU58017	NANDIVELUGU PHANIGNIGNANA	66
		LAKSHMI SANGHAVI	
16.	Y23BU58018	NEERUKONDA KAVYA MOUNIKA	74
17.	Y23BU58019	NELAPATI MADHAVI	65
18.	Y23BU58020	ORSU SAILAJA	92
19.	Y23BU58022	PATCHALA SIRISHA	70
20.	Y23BU58023	PITTALA SIVA NAGA LAKSHMI	64
21.	Y23BU58024	POTLACHERUVU TRIVENI	97
22.	Y23BU58025	SHAIK KARISHMA	87
23.	Y23BU58026	SARIPATHI RAJA RAJESWARI	80
24.	Y23BU58027	TADEPALLI POORNA JYOTHI	97
25.	Y23BU58028	THOTAKURA ANUSHA DEV	98
26.	Y23BU58029	TURAKA SMILEY	75
27.	Y23BU58030	VEDUKA BHAVANI	60
28.	Y23BU58032	YARRAM ANJALI	97
29.	Y23BU58033	YENUMULA JAYASRI	88
30.	Y23BU58034	YERUVA ARPITHA	65

Attainment Analysis	
MOOCS-II	
Total Number of Students Registered for the Examination	30
Total Number of Students Absent for the Examination	Nil
Total Number of Students Appeared for the Examination	30
Number of Students with Score	≥40 Marks
Number of Students with Score	30
Percentage of students scoring	100%
Direct attainment level of the Course	3



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**Criterion: II** 

Metric - 2.5.1

### **PROJECT**

	DEPARTMENT OF MBA								
Batch	n: 2022-24	Progra	m: MBA	Semester : IV	Course code : MBA				
Acade	Academic year :		Academic year:		Academic year:				
20	023-24								
			ourse Nam	e: Project Report					
S.No	Regd.		Stu	ident Name	Total (100)				
1.	Y23BU58001		ALLARI SNE	CHA GAYATHRI	71				
2.	Y23BU58002		BHUNATTUI	LA HEMALATHA	72				
3.	Y23BU58003		BAYANABOI	NA NANDINI	71				
4.	Y23BU58004		CHAVVAKUI	LA AKHILA	72				
5.	Y23BU58005		CHOKKA BH	IUVANESWARI	73				
6.	Y23BU58006		GADDAM LA	AKSHMI DURGA	74				
7.	Y23BU58007	7	GUDIMETLA	MERI RANI	73				
8.	Y23BU58009	)	IMADABATH	HII MOUNIKA	72				
9.	Y23BU58011	_	KAKI SARIT	НА	72				
10.	Y23BU58012	2	KOJJA NEEL	IMA	72				
11.	Y23BU58013	3	KOMPALLA	KIRANMAI	73				
12.	Y23BU58014	1	MOPARTHI A	ARCHANA	73				
13.	Y23BU58015	5	MUNAGOTI	VENNELA	74				
14.	Y23BU58016	5	NALLAMEK.	ALA MANUSHA	72				
15.	Y23BU58017	7	NANDIVELU LAKSHMI SA	IGU PHANIGNIGNANA ANGHAVI	72				
16.	Y23BU58018	3	NEERUKONI	DA KAVYA MOUNIKA	73				
17.	Y23BU58019	)	NELAPATI M	IADHAVI	72				
18.	Y23BU58020	)	ORSU SAILA	JA	72				
19.	Y23BU58022	2	PATCHALA S	SIRISHA	71				
20.	Y23BU58023	3	PITTALA SIV	A NAGA LAKSHMI	72				
21.	Y23BU58024	1	POTLACHER	RUVU TRIVENI	71				
22.	Y23BU58025	5	SHAIK KARI	SHMA	71				
23.	Y23BU58026	5	SARIPATHI R	RAJA RAJESWARI	72				
24.	Y23BU58027	7	TADEPALLI	POORNA JYOTHI	73				
25.	Y23BU58028	3	THOTAKURA	A ANUSHA DEV	74				
26.	Y23BU58029	)	TURAKA SM	IILEY	75				
27.	Y23BU58030	)	VEDUKA BH	IAVANI	73				
28.	Y23BU58032	2	YARRAM AN	IJALI	74				



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**Criterion: II** 

**Metric** – **2.5.1** 

29.	Y23BU58033	YENUMULA JAYASRI	73
30.	Y23BU58034	YERUVA ARPITHA	A

Attainment Analysis							
PROJECT							
Total Number of Students Registered for the Examination	30						
Total Number of Students Absent for the Examination	NIL						
Total Number of Students Appeared for the Examination	30						
Number of Students with Score	≥60 Marks						
Number of Students with Score	30						
Percentage of students scoring	100%						
Direct attainment level of the Course	3						

# TANDOLERE THURSE

### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

### **DEPARTMENT OF MBA**

### **INDIRECT ATTAINMENT (10%)**

The Indirect attainment tools are

• Feedback analysis through Student Exit Survey, which will be taken after the completion of the programme.

In Indirect Assessment method the threshold is : 4.0 or more in the 5-point rating scale in the Students Exit Feedback Survey

### **Target Levels of CO Attainment for Student Feedback Survey**

Level	of Attainment	Threshold value for Assessment = 4.0 or more in the 5-point rating scale in the Survey
3	High	75% or more students give 4.0 or more
2	Moderate	65% or more students give 4.0 or more
1	Low	50% or more students give 4.0 or more
0	Not Applicable	Less than 50% of students give 4.0 or more

Students Exit Feedback Survey Q	PDF						
Students Responses	Students Responses						
Students Responses Analysis - Gr	Students Responses Analysis - Graphs						
Iı	ndirect Survey Attainment Analysis						
Total Number of Students participated in the Survey	Attainment						
30	3						



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Metric - 2.5.1

### DEPARTMENT OF MBA 2022-2024

Sl. No	Parameter	Below Average	Average	Good	Very Good	Excellent	Total
1	Did you learned what you expected from the programme?	0	0	05	14	11	30
2	Is college providing all the facilities to learn and develop the skills?	0	0	09	09	12	30
3	Do you have any idea regarding the jobs that are available for MBAs?		01	06	13	10	30
4	Is teachers provide sufficient knowledge to develop your skills?		02	05	12	11	30
5	How much did you write (assignments, tutorials, activities) in your program?		01	08	11	10	30
6	Rating overall quality of learning experience in this college		0	07	10	13	30
	Total		04	40	69	67	-
	Percentage		2.22%	22.2%	38.3%	37.2%	-



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**Criterion: II** 

Metric - 2.5.1

### DEPARTMENT OF MBA 2022-2024

### OVER ALL ATTAINMENT OF THE COURSE OF MBA

Year/ Semester	Paper Code	Estimated Cos – Direct Attainment	Estimated Cos – Indirect Attainment	Over all Course Attainment = 0.9 CO attainment (Direct) + 0.1 CO attainment (Indirect)				
I / I	Bus 1.1	3	3	3				
I/I	Bus 1.2	3	3	3				
I / I	Bus 1.3	3	3	3				
I / I	Bus 1.4	3	3	3				
I / I	Bus 1.5	3	3	3				
I / I	Bus 1.6	3	3	3				
I / I	Bus 1.7	3	3	3				
I / II	Bus 2.1	3	3	3				
I / II	Bus 2.2	3	3	3				
I / II	Bus 2.3	3	3	3				
I / II	Bus 2.4	3	3	3				
I/II	Bus 2.5	3	3	3				
I/II	Bus 2.6	3	3	3				
I / II	Bus 2.7	3	3	3				
II / III	Bus 3.1	3	3	3				
II / III	Bus 3.2	3	3	3				
II / III	Bus 3.3	3	3	3				
II / III	Bus 3.4F	3	3	3				
II / III	Bus 3.4H	3	3	3				
II / III	Bus 3.5F	3	3	3				
II / III	Bus 3.5H	3	3	3				
II / IV	Bus 4.1	3	3	3				
II / IV	Bus 4.2	3	3	3				
II / IV	Bus 4.3	3	3	3				
II / IV	Bus 4.5F	3	3	3				
II / IV	Bus 4.6F	3	3	3				
II / IV	Bus 4.4H	3	3	3				



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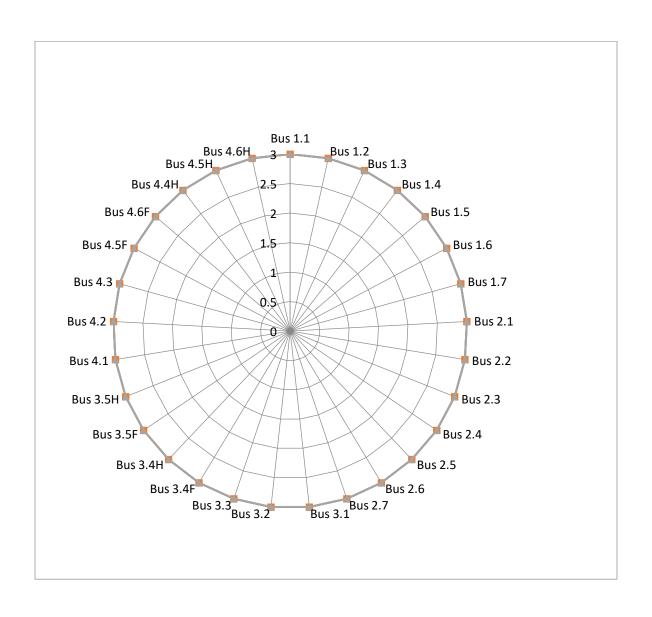
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**Criterion: II** 

Metric - 2.5.1

II / IV	Bus 4.5H	3	3	3
II / IV	Bus 4.6H	3	3	3

### DEPARTMENT OF MBA 2022-2024 OVER ALL ATTAINMENT OF THE COURSE OF MBA





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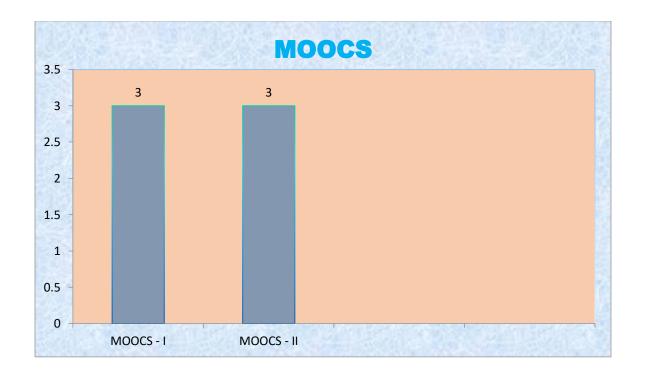
**Criterion: II** 

Metric - 2.5.1

### DEPARTMENT OF MBA 2022-2024

### OVERALL ATTAINMENT OF MOOCS

Year/ Semester	Paper Code	Estimated Cos – Direct Attainment	Estimated Cos – Indirect Attainment	Over all Course Attainment = 0.9 CO attainment (Direct) + 0.1 CO attainment (Indirect)				
I / II	MOOCS-I	3	3	3				
II / III	MOOCS-II	3	3	3				





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**Criterion: II** 

Metric - 2.5.1

### DEPARTMENT OF MBA 2022-2024

### OVERALL ATTAINMENT OF PROJECT

Year/ Semester	Paper Code	Estimated Cos – Direct Attainment	Estimated Cos – Indirect Attainment	Over all Course Attainment = 0.9 CO attainment (Direct) + 0.1 CO attainment (Indirect)
I/II	Project	3	3	3





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**Criterion: II** 

Metric - 2.5.1

### DEPARTMENT OF MBA 2022-2024

### OVERALL ATTAINMENT OF COS WITH POS& PSOS

Yea r/	Paper Code	Overall Attainment of COs					]	Mappii	ng (CO	s & PC	Os)					Mappi (COs & I	
Se m			PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
I/I	Bus 1.1	3	3	2.6	3	2.4	2.4	2.4	2.4	3	2.6	2.4	2.6	2.4	2.4	3	2.8
I/I	Bus 1.2	3	3	-	2.6	2.6	2.4	-	-	-	3	3	2.4	2.4	3	2.2	3
I/I	Bus 1.3	3	3	2.8	2.4	2.6	3	2.8	2.4	2.2	2.4	2.4	2.6	2.2	2.4	3	2.6
I/I	Bus 1.4	3	2.8	-	3	2.6	2.6	2.6	3	-	2.6	2.8	2.6	2.4	2.4	2.5	3
I/I	Bus 1.5	3	3	2.6	2.4	2.6	3	2.4	3	2.4	2.2	2.6	2.6	2.6	2.6	3	2.6
I/I	Bus 1.6	3	3	-	2.7	2.6	2.8	2.5	-	-	3	-	2.6	2.8	3	2.6	2.6
I/I	Bus 1.7	3	3	2.6	2.4	2.6	3	2.4	3	2.4	2.2	2.6	2.6	2.6	2.6	3	2.6
I/II	Bus 2.1	3	2.6	2.6	3	2.6	2.8	2.6	2.4	2.8	2.6	2.6	2.6	2.6	2.4	2.8	2.6
I/II	Bus 2.2	3	3	2.5	2.6	2.8	2.6	2.5	2.2	3	2.3	2.6	2.8	2	2.6	3	2.4
I/II	Bus 2.3	3	3	2.6	2.8	2.8	2.4	2.6	2.4	2.2	2.8	2.4	2.6	2.8	2.8	2.6	2.8
I/II	Bus 2.4	3	2.6	2.8	2.4	2.8	2.8	3	2.4	2.8	2.6	2.4	2.2	2.3	3	2.6	2.8
I/II	Bus 2.5	3	2.4	2.6	3	2.6	2.4	2.4	2.4	2.8	2.4	2.8	2.4	3	2.4	3	2.6
I/II	Bus 2.6	3	2.8	2.6	3	2.6	3	3	2.4	2	2	2.4	3	2.6	3	2.8	2.2
I/II	Bus 2.7	3	3	2	2.7	2.6	2.8	2.5	2.5	3	3	2.5	2.6	2.8	3	2.6	2.6
II / III	Bus 3.1	3	2.6	2.6	3	2.8	2.6	2.8	2.2	2.4	2.6	2.6	3	2.5	2.4	2.6	2.8
II / III	Bus 3.2	3	3	2.6	2.6	2.8	3	2.4	2.6	3	3	2.6	2.8	2.6	3	2.6	2.8
II / III	Bus 3.3	3	3	2.2	3	2.6	2.4	2.6	2.8	2.8	2.2	2.2	2.8	2.4	2.6	2.4	2.8
II / III	Bus 3.4F	3	3	2.6	3	2.6	2.6	-	-	-	2.8	-	1	2.6	2.8	2.6	2.8
II / III	Bus 3.4H	3	2.8	3	2.6	2.6	2.4	-	2.2	2	2.8	2.6	3	2.4	2.2	3	2.8

# SAME PRICE NAME

#### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

II / III	Bus 3.6F	3	3	2.4	2.8	2.6	2.6	-	-	-	2.6	-	-	2.4	2.6	2.8	2.4
II / III	Bus 3.5H	3	3	2.6	2.4	2.6	-	-	2.8	-	2.6	-	3	2.6	2.6	2.8	2.6
II / IV	Bus 4.1	3	3	2.5	3	2.2	2.4	2.5	2.8	2.6	1	ı	2.6	2.6	2.6	3	2.6
II / IV	Bus 4.2	3	3	2.4	2.6	2.6	2.6	2.5	2.6	2.4	2.8	2.6	2.2	2.6	2.4	2.8	2.8
II / IV	Bus 4.3	3	2.6	2.8	2.6	2.6	2.8	3	2.5	2.6	3	2.4	2.6	2.4	2.8	2.6	2.8
II / IV	Bus 4.4F	3	3	2.4	3	2.3	2.5	2.6	2.8	2.2	2.6	2.6 7	2.6	2.8	2.6	2.8	2.6
II / IV	Bus 4.5F	3	2.8	2.6	2.6	2.6	2.6	2.8	2.4	2.2	2.4	2.2	2.8	2.4	2.6	2.6	2.8
II / IV	Bus 4.6F	3	3	2.4	2.8	2.6	2.6	-	-	-	2.6	-	-	2.4	2.6	2.8	2.4
II / IV	Bus 4.4H	3	3	2.2	2.2	2.4	-	2.6	2.4	2.6	2.8	2.6	2.4	2.4	2.4	3	2.6
II / IV	Bus 4.6H	3	3	2.4	ı	-	-	2.6	2.8	2.2	2.6	1	2.6	2.8	2.6	2.8	2.6
	ttainme of the Co of MI	ourse	2.9 0	2.5 4	2.7 2	2.6 0	2.6 6	2.6 1	2.5 6	2.5 3	2.61	2.5 4	2.64	2.5 3	2.63	2.76	2.67
	ofAttaivel of the of MI	Course	97 %	85 %	91 %	87 %	89 %	87 %	85 %	84 %	87%	85%	88%	84 %	88%	92%	89%

DO 0 DOO A44	$\sum$ (Level of Mapping of PO/PSO – CO) x CO Attainment
POs & PSOsAttainment =	
	$\sum$ (Level of Mapping of PO/PSO-CO)



#### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

# DEPARTMENT OF MBA 2022-2024

## OVERALL ATTAINMENT OF COS WITH POS





#### ST. ANN'S COLLEGE FOR WOMEN

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**Criterion: II** 

Metric - 2.5.1

# DEPARTMENT OF MBA 2022-2024

#### **OVERALL ATTAINMENT OF COS WITH PSOS**



\*\*\*\*\*&&&\*\*\*\*\*



Ph: 0863-2236470

Date: 05/06/2023

# ST. ANN'S COLLEGE FOR WOMEN

(A Catholic Christian Minority Institution Affiliated to Acharya Nagarjuna University) (Recognized the College Under Section 2(f) of the UGC Act. 1956 - New Delhi)

AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 034. A.P.

#### **IQAC Meeting Notice**

Meeting No: 01 / 2023 -24

This is to inform the members of IQAC, that there will be an IQAC meeting on 06/06/2023 at 3.00 p.m. in IQAC room under the Chairmanship of Principal to discuss the following agenda.

- 1. NAAC Accreditation Process
- 2. Conversion of Three Majors to Single Majors Programmes
- 3. Preparation of Timetables and Workloads
- 4. Online Admission Procedure for new Programmes
- 5. Commencement of Classes for UG Programmes
- 6. Conduction of Webinars
- 7. Observation of International Days
- 8. Outreach Programmes

IQAC Coordinator Coordinator-IQAC St. Ann's College for Women

Members NTLA, GUNTUR-522

- 1. Mrs. R. Sharon Rose 2. Mrs. D. Swarna Charani Rai
- Dr. J. Pratapa Reddy 3.
- Dr.P.L.Narasimha Rao 4.
- 5. Mrs. B. Joyce
- 6. Mr.S.M. Subani
- 7. Mrs. J. Prameela Rani
- Mr. Ch. Rama Rao 8.
- 9. Mrs. M. Usha Ranj
- 10. Dr. G. Radhika
- Sr. Margaret Priyanka . G Sr. Margaret 11.
- 12. Dr. Sr. Paul Tresa
- 13. Dr. A. Leela Mohana Rao
- 14. Mr. T. Bala Narendra Prasad
- 15. Dr. G. Neelima
- 16. Sr. T. Sandhya
- 17. Mr. K.V. Bhaskar Rao chandana
- 18. G. Chandana

D. S. Fatime Pin Principal PRINCIPAL

St. Ann's College for Women Gorantia, Guntur-522 034.

Meeting No:01/2023-24

Date: 06/06/2023

#### Minutes of the Meeting

As per the notice circulated on 05/06/2023, the meeting was held on 6<sup>th</sup> June 2023 at 3.00 p.m in IQAC room and the following members were present in the meeting.

Mrs.R. Sharon Rose Coordinator of IQAC read about the action report of the previous minutes of the IQAC

#### **Agenda 1: NAAC Accreditation Process**

Dr. Sr. Fatima Rani. PChair Person of IQAC instructed the IQAC members to speed up the work of NAAC Accreditation proceedings on seven criterions in the prescribed time schedules and send the circular to the departments to prepare the documents needed.

# Agenda 2: Conversion of Three Majors to Single Majors Programmes

Mr. Ch. Rama Rao IQAC Member presented the details of the present academic Programmes approved by APSCHE after conversion of three majors into single majors Programmes.

# Agenda 3: Preparation of Timetables and Workloads

Mrs.R. Sharon Rose IQAC Coordinator proposed the timetables and workloads of new programmes as per the framework of syllabus by APSCHE.

## Agenda 4: Online Admission Procedure for new Programmes

Mrs. D. Swarna Charani Rai, IQAC, Addl. Coordinator explained the detailed schedule of the Online Admission Procedure for new Programmes.

## **Agenda 5: Commencement of Classes for UG Programmes**

IQAC member Mr.S. M. Subhani placed the academic calendar for 2023-24 for UG Programmes as communicated by ANU.

#### Agenda 6: Conduction of Webinars

Dr. J. Pratapa Reddy IQAC Addl. Coordinator proposed to organize webinar on Career Counseling and Intellectual Property Rights.

#### **Agenda 7: Observation of International Days**

Mrs. J. Prameela Rani IQAC Member proposed conduction of progrmmes on all International Days.

#### **Agenda 8: Outreach Programmes**

Mrs. B. JoyceIQAC Member suggested to organize Outreach Programmes to connect with the society .

IQAC Coordinator
Coordinator-IQAC
St. Ann's College for Women
GORANTLA, GUNTUR-522034.

Affiliated to Acharya Magarjuna University MARTA, GUNTON

Principal
PRINCIPAL
St. Ann's College for Worr
Gorantia, Guntur-522 034.

#### Members Attendance on 06.06.2023

	Name	Designation	Signature
1.	Dr. Sr. Fatima Rani P.	Chair Person	
2.	Mrs. R. Sharon Rose	Coordinator	Rohnso
3.	Mrs. D. Swarna Charani Rai	Addl. Coordinator	Rohnon D.L. Cu
4.	Dr. J. Pratapa Reddy	Addl. Coordinator	pay
5.	Dr.P.L.Narasimha Rao	Member	B.c. Naren
6.	Mrs. B. Joyce	Member	Box
7.	Mr.S.M. Subani	Member	Solut m
8.	Mrs. J. Prameela Rani	Member	Om
9.	Mr. Ch. Rama Rao	Member	0,/
10.	Mrs. M. Usha Rani	Member	uay-
11.	Dr. G. Radhika	Member	Radis.
12.	Dr. Sr. Paul Tresa	Member	
13.	Sr. T. Sandhya	Member	
14.	Dr. A. Leela Mohana Rao	Member	lh-
15.	Mr. T. Bala Narendra Prasad	Member	
16.	Dr. G. Neelima	Member	
17.	Sr. Margaret Priyanka .G	Member	Sr. Margaret
18.	Mr. K. V. Bhaskar Rao	Member	<b>V</b>
19.	G. Chandana	Member	chandana

# Action Taken report of IQAC First meeting held on 06/06/2023

Plan of Action	Resolutions / Action Taken
NAAC Accreditation Process	The instructions to speed up NAAC
	Accreditation process as per SOP
	communicated by IQAC to all HOD's and
	Criteriawise documentation is in progress.
Conversion of Three Majors to Single	As per the orders for the Conversion of eight
Majors Programmes	existing private unaided three major UG
3	programmes to single major programmes from
	the Academic Year 2023 – 24 received from the
•	Chairman APSCHE, Guntur on 6 <sup>th</sup> June 2023.
	13 programmes with English Medium will be
Dromomotics of Time 11	run from 2023 -24 withtheapprovedIntake.
Preparation of Timetables and	Timetables along with workloads for new 13
Workloads	UG Honoursprogrammes for Physical Sciences,
	Biological Sciences and B. Com, BCA and
	BBA were planned as per the framework of
	syllabus by APSCHE.
Online Admission Procedure for new	An avvarances residue of (Communication)
	An awareness session on "Conversion of Three Majors to Single Majors for LIC Programmes"
Programmes	Majors to Single Majors for UG Programmes" implementing from 2023 -24 in accordance with
	NEP - 2020 and guidelines on selecting the New
	Programmes of the College approved by
	APSCHE was given by the Admission
	Committee.
Commencement of Classes for UG	As per the resolution made, Commencement of
Programmes	regular Classes are scheduled from 2 <sup>nd</sup> August
Tiogrammes	2023bonwards basing on ANU academic
	calendar.
Webinars on "Career Counseling	Webinar on "Career Counseling "via zoom
	meeting by APSSDC with the Resource Person
	Mr.K.Ram Mohan Rao, "Entrepreneurship
	Development Programme, on "Industry Demand
	Skills" by Sri. Vamsi Krishna Reddy
	,Chairman,Chief Technical Officer,Solar Home
Observation of International Days	Solutions were held in College Seminar Hall.  International Yoga Day on 21 <sup>ST</sup> June 2023 and
I INCORVATION OF INFO	

	International Day against Drug Abuse & Illicit Trafficking on 26 <sup>th</sup> June 2023 was resolved and observed.
Outreach Programmes	On 27 <sup>th</sup> June 2023, the Outreach Programme was organized by Gnanamma Club Committee visiting NirmalHrudayBhavan, Brodipet, Guntur an old age home and also visited SHIP Organization located near Hosanna Mandhir Gorantla Guntur to support the AIDS affected children

IQAC Coordinator
Coordinator-IQAC
St. Ann's College for Women
GORANTLA, GUNTUR-522034.



Principal
PRINCIPAL
St. Ann's College for Women
Gorantia, Guntur-522 034.

Ph: 0863-2236470



# ST. ANN'S COLLEGE FOR WOM

(A Catholic Christian Minority Institution Affiliated to Acharya Nagarjuna University) (Recognized the College Under Section 2(f) of the UGC Act. 1956 - New Delhi)

AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 034. A.P.

#### **IQAC Meeting Notice**

Meeting No: 02/2023 -24

Date: 31/07/2023

This is to inform the members of IQAC, that there will be an IQAC meeting on 02/08/2023 at 3.00 p.m. in IQAC room under the Chairmanship of Principal to discuss the following agenda.

#### Agenda:

- 1. Green, Energy and Environment Audit.
- 2. Anti-Ragging Week
- 3. Student Induction Programme
- 4. Library Activity
- 5. Celebration of Chandrayaan 3.



**IQAC** Coordinator

Coordinator-IQAC St. Ann's College for Women

Membersantla, GUNTUR-522034

1. Mrs. R. Sharon Rose

Mrs. D. Swarna Charani Rai D. L-C 2.

3. Dr. J. Pratapa Reddy

4. Dr.P.L.Narasimha Rao

5. Mrs. B. Joyce

6. Mr.S.M. Subani

7. Mrs. J. Prameela Rani

8. Mr. Ch. Rama Rao

9. Mrs. M. Usha Rani

Dr. G. Radhika Kashin 10.

Sr. Margaret Priyanka . G Sr. Margaret 11.

12. Dr. Sr. Paul Tresa

13. Dr. A. Leela Mohana Rao

14. Mr. T. Bala Narendra Prasad

15. Dr. G. Neelima

16. Sr. T. Sandhya

17. Mr. K.V. Bhaskar Rao

18. G. Chandana



Principal 4 6 1

St. Ann's College for Won Gorantia, Guntur-522 03

chandana

Meeting No:02/2023-24

#### Minutes of the Meeting

Date: 02/08/2023

As per the notice circulated on 31/07/2023, the meeting was held on 2<sup>nd</sup> August 2023 at 3.00 p.m in Conference Hall and the following members were present in the meeting and discussed the above agenda points.

Mrs.R. Sharon Rose Coordinator of IQAC read out the action report of the previous minutes of the IQAC

#### Agenda 1: Green, Energy and Environment Audit.

The Chair Person Dr. Sr. Fatima Rani. P suggested to IQAC Committee to organize Green, Energy and Environment AuditbyNature Science Foundation, Coimbatoor, Tamilnadu. It is resolved to organize the event.

#### Agenda 2: Anti-Ragging Week

As proposed by Mrs J. Prameela Rani Member of IQAC, It is resolved to organize Anti Ragging week in August 2023.

#### Agenda 3: Student Induction Programme.

Dr. J. Pratapa Reddy Addl. Coordinator suggested to conduct student induction Programme for I Year UG Programmes .

## **Agenda 4: Library Activity**

As proposed by Dr.P.L.Narasimha Rao Member of IQAC and it is resolved to organize Library week with different events.

#### Agenda 5: Celebration of Chandrayaan - 3.

Mr. Ch. Rama Rao IQAC member proposed to organize workshop on Chandrayaan – 3.

IOAC Coordinator
Coordinator-IOAC
St. Ann's College for Women
GORANTLA, GUNTUR-522034.



Principal
PRINCIPAL
St. Ann's College for Women
Gorantla, Guntur-522 034

#### Members Meeting Attendance on 02.08.2023

	Name	Designation	Signature		
1.	Dr. Sr. Fatima Rani P.	Chair Person			
2.	Mrs. R. Sharon Rose	Coordinator	Rohaon		
3.	Mrs. D. Swarna Charani Rai	Addl. Coordinator	Rohan D-LCVL		
4.	Dr. J. Pratapa Reddy	Addl. Coordinator	yough		
5.	Dr.P.L.Narasimha Rao	Member	Por Por		
6.	Mrs. B. Joyce	Member	Por		
7.	Mr.S.M. Subani	Member	Sohr		
8.	Mrs. J. Prameela Rani	Member	Gn		
9.	Mr. Ch. Rama Rao	Member	<u> </u>		
10.	Mrs. M. Usha Rani	Member	ndy		
11.	Dr. G. Radhika	Member	Rashi		
12.	Dr. Sr. Paul Tresa	Member			
13.	Sr. T. Sandhya	Member			
14.	Dr. A. Leela Mohana Rao	Member	the		
15.	Mr. T. Bala Narendra Prasad	Member			
16.	Dr. G. Neelima	Member			
17.	Sr. Margaret Priyanka .G	Member	31-Margaret		
18.	Mr. K. V. Bhaskar Rao	Member	٧		
19.	G. Chandana	Member	chandana		

Meeting No: 02/2023 - 24

# Action Taken report of IQAC - Second meeting held on 02/08/2023

Plan of Action	Resolutions / Action Taken		
Green, Energy and Environment Audit.	Green, Energy and Environment Audit was conducted on 7 <sup>th</sup> August 2023 by Nature Science Foundation (NSF)Coimbatoor, Tamilnadu ,Indiaand submitted the report to the Principal .		
Anti-Ragging Week	As per directions of University Grants Commission (UGC) regarding celebration of Anti Ragging Week was organized from 12 <sup>th</sup> to 18 <sup>th</sup> August 2023.		
Student Induction Programme.	As per the minutes the student induction Programme was conducted on 31 <sup>st</sup> October 2023.		
Library Activity	As per the resolutions, Department of Library Science organized "New Arrivals Exhibition" in UG Library on 14 <sup>th</sup> August 2023.		
Celebration of Chandrayaan - 3.	Department of Physics had organized a workshop on "Milestones of ISRO" in College Seminar Hall on 31 <sup>st</sup> August 2023 and the Resource Person Mr. Ch.Ram Prasac ,Associate Prof. Department of Physics, JKC College was invited as Resource Person.		

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Principal PRINCIPAL

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# ST. ANN'S COLLEGE FOR WOMEN

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AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 034, A.P.

## **IQAC Meeting Notice**

Meeting No: 03 / 2023 -24

Date: 29/11/2023

This is to inform the members of IQAC, that there will be an IQAC meeting on 30/11/2023 at 10.00 p.m. in Conference Hall under the Chairmanship of Principal to discuss the following agenda.

#### Agenda:

- 1.Documents needed for IIQA
- 2. Submission of IIQA in NAAC portal.

**IQAC** Coordinator

Coordinator-IQAC

St. Ann's College for Women Membera KITLA, GUNTUR-522034,

Mrs. R. Sharon Rose

2. Mrs. D. Swarna Charani Rai

3. Dr. J. Pratapa Reddy

4. Dr.P.L.Narasimha Rao

5. Mrs. B. Joyce

6. Mr.S.M. Subani

Mrs. J. Prameela Rani . 7.

8. Mr. Ch. Rama Rao

9. Mrs. M. Usha Rani

Dr. G. Radhika Koo 10.

Sr. Margaret Priyanka . G &r. Margaret 11.

12. Dr. Sr. Paul Tresa

Dr. A. Leela Mohana Rao 13.

Mr. T. Bala Narendra Prasad

15. Dr. G. Neelima

16. Sr. T. Sandhya

17. Mr. K.V. Bhaskar Rao

18. G. Chandana chandana



2 S. Foltoma Kome P

St. Ann's College for Women Gorantia, Guntur-522 034,

Meeting No: 03 / 2023-24

#### Date: 30/11/2023

#### Minutes of the Meeting

As per the notice circulated on 29/11/2023, the meeting was held on 30<sup>th</sup> November 2023 at 10.00 a,m in Conference hall and the following members were present in the meeting.

Mrs.R. Sharon Rose Coordinator of IQAC read out the action report of the previous minutes of the IQAC

#### Agenda 1: Documents needed for IIQA

The Chair Person Dr. Sr. Fatima Rani. P guided IQAC members to check and review the documents (i.e. Current Affiliation orders, Self-Declaration, 2f Certificate, AICTE approval orders etc.) needed for IIQA. It is resolved.

#### Agenda 2: Submission of IIQA in NAAC portal

Dr.P.L.Narasimha Rao Member of IQAC suggested to submit IIQA in the month of December 2023 by fulfilling all the data and resolved by all the members.

## Action Taken report of IQAC Third meeting held on 30/11/2023

Meeting No: 03/2023 - 24

Plan of Action	Resolutions / Action Taken		
Documents needed for IIQA	The documents pertaining to IIQA (i.e Current Affiliation orders, Self-Declaration, 2f Certificate, AICTE approval orders etc ) were collected and approved with Principal's Signature.		
Submission of IIQA in NAAC portal	As per the resolutions, for the first time IIQA was submitted on 2 <sup>nd</sup> December 2023.		

IQAC Coordinator
Coordinator-IQAC
St. Ann's College for Women
GORANTLA, GUNTUR-522034.



Principal
PRINCIPAL
St. Ann's College for Women
Gorantia, Guntur-522 034.

## **Members Meeting Attendance on 30.11.2023**

	Name	Designation	Signature
1.	Dr. Sr. Fatima Rani P.	Chair Person	
2.	Mrs. R. Sharon Rose	Coordinator	Rown
3.	Mrs. D. Swarna Charani Rai	Addl. Coordinator	D. LCV
4.	Dr. J. Pratapa Reddy	Addl. Coordinator	speed -
5.	Dr.P.L.Narasimha Rao	Member	Q. L. warer
6.	Mrs. B. Joyce	Member	Room
7.	Mr.S.M. Subani	Member	Sant 4
8.	Mrs. J. Prameela Rani	Member	m
9.	Mr. Ch. Rama Rao	Member	a/
10.	Mrs. M. Usha Rani	Member	udy
11.	Dr. G. Radhika	Member	Radiz
12.	Dr. Sr. Paul Tresa	Member	
13.	Sr. T. Sandhya	Member	
14.	Dr. A. Leela Mohana Rao	Member	the state of the s
15.	Mr. T. Bala Narendra Prasad	Member	,
16.	Dr. G. Neelima	Member	
17.	Sr. Margaret Priyanka .G	Member	3r. Margonel
18.	Mr. K. V. Bhaskar Rao	Member	V
19.	G. Chandana	Member	chandana

D. S. Foltoma Runs P

PRINCIPAL

St. Ann's College for Women
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