Bachelors in Commerce (B.Com)

PROGRAMME OUTCOME

- 1: After completing three years for Bachelors in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance.
- 2: The commerce and finance curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.
- 3: The all-inclusive outlook of the course offer a number of values based and job oriented courses & ensures that students are trained into up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organization levels.

PROGRAMME SPECIFIC OUTCOME

- 1. Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.
- 2. Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
- 3. Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

F.Y.B.Com Course Outcome

Subject	Outcom	
	e	
Financial Accounting I & II	1. To understand the various accounting concepts like Branch accounts, Departmental Accounts, Hire purchase Accounts etc.	
	2. To impart the knowledge of various accounting concepts.	
	3.To instil the knowledge about accounting procedures, methods and techniques	
Business Economics I & II	1. To understand the basic elements of economics & to understand certain common features of economic applications in real world	
	2. To expose Students of Commerce to basic micro economic concepts and inculcate an analytical approach to the subject matter.	
	3. To stimulate the student interest by showing the relevance and use of various economic theories. 3. To apply economic reasoning to problems of business.	
Business Mathematics and Statistics I & II	1. To understand basic concepts of mathematical & statistical techniques & its application in commerce & management	
Staustics I & II	2. To understand the concept of Simple interest, compound interest and the concept of EMI.	

	3. To understand the concept of shares and to calculate Dividend.	
	4. To understand the concept of population and sample.	
Commerce I & II	1. To enable the students to get the know-how of commerce & to create an interest in investment its wide scope.	
	2. To make the students aware about the Business Environment.	
	3. To motivate students lo make their mind set for taking up entrepreneurship as career.	
	1. Learner learns basic communication skills in business & day to day	
Business Communication I & II	life. 2To develop awareness regarding new trends in business	
	communication.	
	3. To provide knowledge of various media of communication.	
	It helps the students to upgrade their knowledge on current	
Foundation Course I & II	challenges and issues of Indian society.	
	2. To develop awareness regarding Indian Constitution & Political processes.	
	3. To impart the knowledge of Ethical & Cultural values in Indian Society.	
Environmental Studies I &	1. To expose the students to the emerging environmental issues at	
II	global, national & regional level.	
	2. To aware students about environmental degradation & their	
	effects to overcome it.	
	3. To impart students focus on environment-& human relations.	

S.Y.B.Com Course Outcome

Subject	Outcome
Financial accounting III & IV	Learners get the knowledge of various accounting concepts related with Partnership.
	2. Learners get acquainted with methods used in Conversion of firms into joint stock company.
	3.Learners get knowledge of various provisions of Companies Act 2013
Management accounting I & II	Learners understand various management accounting concepts & their applications.
	2. Learners understand the various accounting analysis in management point of view.
	3. Learners impart the knowledge of various types of budgeting and statements created in management accounting.
Business Economics III & IV	1. To understand the underlying concepts & practical tradeoffs entailed in public finance & policy alternatives.
	Learners get acquainted with economic policy alternatives apply in business
	3. To apply economic reasoning to problems of business.
Advertising I & II	1. Learners will understand the impulse of consumers to create demand by developing advertising & marketing Strategies.
	2. To establish link between Business and marketing.
Commerce III & IV	1.Learners get acquainted with different concepts of management & related theories &Principles
	2. To establish relevance of commerce & marketing in modern competitive world.
Business Law I & II	1. Learner learns about various laws, Contract and Agreements applicable in Business world.
	2. Learners get acquainted about various Partnership Contract used in Commerce world.
Foundation Course III & IV	To make aware of various Rights their role in development of Indian Society.
	2. To impart the knowledge of environment & science & their correspondence with present world.

T.Y.B.Com Course Outcome

Subject	Outcome
Financial accounting V & VI	Learner will be able to handle corporate accounts in actual world.
V & VI	2. Learners get acquainted with the different types of Amalgamation & their Procedures.
	3. Learners understand the accounting Concept apply in corporate world.
Cost	1. Learners will analyze techniques and methods of costing.
accounting I	2. To Impart The Knowledge Of Basic Cost concepts, Elements of cost, Ascertainment of Material and Labour Cost.
& II	
Business Economics V & VI	1. To expose the students to emerging economic issues at global & national level to understand policy measures.
	2. To help the students in analyzing the present status of the Indian Economy.
	3 To acquaint students with the emerging issues in policies of India's foreign trade.
Export	1. Learners get acquainted with Foreign trade policy 2015-2020.
Marketing I &	2. Learners understand the procedure for export & import & strong potentials of Export in development of nation.
Commerce V & VI	Learners are capable to understand different facts of marketing & Human Resource Management to attainting organizational goal.
	2. Learners get acquainted with marketing mix & recent development in Marketing & Human Resource management.
Computer application & programming I & II	Learners get knowledge of computer application & Programming languages & its practical usage in day to day activities.
	2. To make the students familiar with the basics of Operating System and business communication tools. 3. To make the students familiar with basics of Network, Internet and related concepts.
Direct & Indirect Taxation I & II	Learners understand taxation system, concepts & Acts applicable in India.
	2. To understand the basic concepts and to acquire knowledge about Indirect Taxes especially Goods & Service Tax applicable in India.

BSc Chemistry: Programme outcome:

- Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
- Solve the problem and also think methodically, independently and draw a logical conclusion.
- Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
- Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
- Find out the green route for chemical reaction for sustainable development.
- To inculcate the scientific temperament in the students and outside the scientific community.

B.Sc. Physics: Programme outcome:

- The systematic and planned curricula from these courses shall motivate and encourage learners to understand basic concepts of Physics.
- Developing Curriculum that is progressive and purposeful to create positive improvement in the education system is the logic behind this revision.
- Out of the three courses in each Semester, two courses are devoted to core Physics, catering to Mechanics, Thermodynamics, Optics, Electrodynamics, Quantum Mechanics, Mathematical Physics and Digital and Analog Electronics.
- To develop analytical abilities towards real world problems.
- To familiarize with current and recent scientific and technological developments.
- To enrich knowledge through problem solving, hands on activities, study visits, projects etc.
- The science of Physics has diversified immensely in recent times and numerous new fields in Physics, such as Crystal physics, Geo-Physics, Radio.

B.Sc. Zoology: Programme Outcome

- To nurture interest in the students for the subject of Zoology
- To create awareness of the basic and modern concepts of Zoology.
- To orient students about the importance of abiotic and biotic factors of environment and their conservation.
- To provide an insight to the basic nutritional and health aspects of human life.
- To inculcate good laboratory practices in students and to train them about scientific handling of important instruments.

Course Outcome:

F.Y.B.Sc.	Course Outcome
Chemistry Paper-I	 Facilitate the learner to make solutions of various molar concentrations. This may include: The concept of the mole; Converting moles to grams; Converting grams to moles; Defining concentration; Dilution of Solutions; Making different molar concentrations. State and apply the laws of thermodynamics and kinetics. In addition to that atomic structure, stereo chemical concept, and fundamentals of reaction mechanism must be known by students.
Chemistry Paper-II	 Students can apply the fundamental principles of measurement, matter, atomic theory, chemical periodicity, chemical bonding, general chemical reactivity and solution chemistry to subsequent courses in science. Stereochemistry basic concepts. Understanding and Writing mechanism of organic reactions to predict the outcome of reactions. Determine the aromaticity of different compounds.

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Physics Paper-II	 Understand Newton's laws and apply them in calculations of the motion of simple systems. Use the free body diagrams to analyze the forces on the object. Understand the concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them Understand the concepts of lens system and interference. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. Demonstrate quantitative problem solving skills in all the topics covered. Understand the basic mathematical concepts and applications of them in physical situations. Understand nuclear properties and nuclear behaviour. Understand the type isotopes and their applications. Demonstrate and understand the quantum mechanical concepts. Demonstrate quantitative problem solving skills in all the topics covered.
Zoology Paper-II	 Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology. Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation. Minds of learners would be impulse to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences. This paper would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form. Erupting spur of desire for conservation of all flora and fauna. Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism. Learners would work safely in the laboratory and avoid occurrence of
Zoology Paper-II	 Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions. Learners would understand recent advances in the subject and their applications. Students will be skilled to select and operate suitable instruments for the studies of different components of Zoology of this course and also of higher classes including research. Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits, Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene. Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions.
Mathematics Calculus-I & II Paper-I	 System of real numbers with their properties with respect to (+), (.) density property, Archimedean property. Method of induction, definition of sequence, limit of sequence, monotonic sequence. Epsilon delta definition of limit, algebra of limit, continuity at point and in domain, sequential continuity.

 Series, sum of series, test for convergence of series. Algebra of continues function, higher order derivatives, implicit function. Definition of local maxima and local minima, monotonic function, Taylor polynomials. Integers and their properties with respect to (+), (.), division algorithm, gcd, lcm, Euler's function, congruence. Function and their types, equivalence classes, residue class modulo n. Polynomials and their properties in R[x], solving cubic equations. System of linear equations and their solutions, matrices & their properties, rank of matrix. Definition of vector space over R, linearly independent, linearly dependent, subspace of vector spaces and their properties. Basis of vector space, dimension of vector space, linear transformation, kernel of L.T., image of L.T., Rank-Nullity theorem. Syrbsc Course Outcome Students are expected to understand and derive equations for Free energy functions, Gibb's- Helmholtz equation, Van't Hoff reaction
function. Definition of local maxima and local minima, monotonic function, Taylor polynomials. Mathematics Algebra-I & Linear Algebra- II Paper-II Polynomials and their types, equivalence classes, residue class modulo n. Polynomials and their properties in R[x], solving cubic equations. System of linear equations and their solutions, matrices & their properties, rank of matrix. Definition of vector space over R, linearly independent, linearly dependent, subspace of vector spaces and their properties. Basis of vector space, dimension of vector space, linear transformation, kernel of L.T., image of L.T., Rank-Nullity theorem. Sybsc Course Outcome Students are expected to understand and derive equations for Free
 Definition of local maxima and local minima, monotonic function, Taylor polynomials. Mathematics Algebra-I & Linear Algebra-II Function and their types, equivalence classes, residue class modulo n. Polynomials and their properties in R[x], solving cubic equations. System of linear equations and their solutions, matrices & their properties, rank of matrix. Definition of vector space over R, linearly independent, linearly dependent, subspace of vector spaces and their properties. Basis of vector space, dimension of vector space, linear transformation, kernel of L.T., image of L.T., Rank-Nullity theorem. SyBSc Course Outcome Students are expected to understand and derive equations for Free
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Algebra-I & gcd, lcm, Euler's function, congruence. Function and their types, equivalence classes, residue class modulo n. Polynomials and their properties in R[x], solving cubic equations. System of linear equations and their solutions, matrices & their properties, rank of matrix. Definition of vector space over R, linearly independent, linearly dependent, subspace of vector spaces and their properties. Basis of vector space, dimension of vector space, linear transformation, kernel of L.T., image of L.T., Rank-Nullity theorem. SYBSC Course Outcome Students are expected to understand and derive equations for Free
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Chemistry-I • Students are expected to understand and derive equations for Free
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energy functions (tibh's, Helmholtz equation, Van't Hott reaction
1
Isochore and Gibb's Duhem equation. Understand the Concept of
fugacity and activity.
• Students should be able to define conductance, specific conductance,
equivalent and molar conductance. State Kohlrausch's law if
independent migration of ions and its applications. What is transference
number and how it is determined using Moving Boundary Method.
Students are expected to understand the concept of electrochemical conventions, reversible and irraversible calls. Normat equation and its
conventions, reversible and irreversible cells. Nernst equation and its
 importance. Calculation of thermodynamic properties like ΔG, ΔH and ΔS,
• Calculation of thermodynamic properties likeΔG, ΔH and ΔS, Concentration cell with and without transferene, Liquid junction
potential and salt bridge. Use of Quinhydrone electrode for pH
determination.
Gibb's phase rule, Clausius- Clapeyron equation, one component
systems:- water and sulphur system, two component system:- lead silve
system.
 Discuss kinetics, mechanism and stereochemistry of SN1 and SN2
reactions. Compare between SNAr and SNCB reactions.
 Understand the evidences, reactivity and mechanism of various
reactions. Synthesis using Organometallics.
In addition to that students should aware about application of molecular
orbital theory with its fundamentals to various diatomic molecules of
homo and hetero atoms type.
Chemistry-II • Students are expected to know the different types of Complex reactions.
Thermal chain reactions, Arrhenius equation, Concept of energy of
activation. Collision theory and activated complex theory.
• Ideal solutions and Raoults law, Gibbs phase rule, Vapour composition
diagram, Critical solution temperature, phenol water sytem,
trimethylamine water system and Nicotine water system. Steam
distillation method, Nernst distribution law.
• Students are expected to understand the characteristics of simple, face
centered and body centered cubic systems, interplanar distances, Bragg'
equation, Xray diffraction method for crystal structure determination.
Determination of Avogadros number.
• Students are expected to know types of catalysis, catalytic activity,

mechanisms and kinetics of acid base catalysed and enzyme catalysed reactions, effect of particle size and efficiency of nanoparticles as catalyst. Chemistry of silicon, germanium, chemistry of nitrogen family , chemistry of boron , acid-base chemistry and chemistry of environment must be aware by student. Students are expected to apply their knowledge to problem-solving, deduce structures, and synthesize simple organic molecules using the studied reactions. The students familiar about the inorganic halogen compounds, coordination compounds and transition elements. Synthesis reactions &conversions using Carbonyl compounds. The teamer is expected to be familiar with the question of what analysis, why it is required and the methods, techniques, procedures and protocols that may be used in the course of given problem of analysis. The learner is also expected to appreciate the role of analytical chemist and chemical analyst, correctness or acceptability of the results of a given analysis and how to deal with wrong or erroneous results, when to reject them and when and how to retain them to be meaningful are some other attributes expected as outcomes of learner. Physics Paper-I Understand the concepts of mechanics & properties of matter & to apply them to problems. Comprehend the basic concepts of thermodynamics & its applications in physical situation. Learn about situations. Understand the diffraction and polarization processes and applications of them in physical situations. Understand the working of digital circuits Use IC 555 time for various timing applications. Understand the working of digital circuits Use IC 555 time for various timing applications. Understand the basic concepts of mathematical physics and their applications in physical situations. Understand the basic laws of electrodynamics and be able to perform calculations using them. Understand the basic problems solving skills in all the topics covered. Understand the basic solving power of different optical instruments. Understand		,
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Research.		· ·
• Experimental learning opportunities will faster creative thinking & a		Research.
		Experimental learning opportunities will faster creative thinking & a

	spirit of inquiry.
	• Understand the concepts of mechanics & properties of matter & to apply
	them to problems.
	Comprehend the basic concepts of thermodynamics & its applications in Physical situation.
	physical situation.
	Learn about situations in low temperature. Demonstrate tentative problem solving skills in all above grees.
7 1 D T	Demonstrate tentative problem solving skills in all above areas.
Zoology Paper-I	• Learner would comprehend and apply the principles of inheritance to study heredity.
	• Learner will comprehend the structure of chromosomes and its types
	and also the mechanisms of sex determination.
	Learner will understand the importance of nucleic acids as genetic
	material.
	• Learner will analyse and critically view the different theories of
	evolution.
	• Learner would understand the forces that cause evolutionary changes in
	natural populations.
	• The learner will imbibe the skills of scientific communication and he/she
	will understand the ethical aspects of research.
Zoology Paper-II	• Learner would understand the increasing complexity of nutritional,
	excretory and osmoregulatory physiology in evolutionary hierarchy.
	Learner would understand the increasing complexity of respiratory and
	circulatory physiology in evolutionary hierarchy.
	• Learner would understand the process of control and coordination by
	nervous and endocrine regulation.
	• Learner would acquire insight into the composition of the transport
	mechanisms adopted by the cell and its organelles for its maintenance
	and composition of cell.
	• Learner would appreciate the intricacy of endomembrane system. The
	learner will realize the importance of biomolecules and their clinical
	significance.
Zoology Paper-III	• Learner would gain insight into different types of animal behaviour and
	their role in biological adaptations.
	• Learner would understand the general epidemiological aspects of
	parasites that affect humans and take simple preventive measures for the
	same.
	• Learner would learn the modern techniques in animal husbandry.
	• Learner would gain knowledge on the functioning of various aspects of
	dairy industry, indigenous, exotic cattle and buffalo breeds in India.
	To comprehend the functioning of sericulture industry and its scope in
	India.
	To comprehend various kinds of aquaculture practices and its scope as
	fishery resource in India.
Mathematics	• Inner product in n –dimension, open ball, closed ball, directional
Calculus Paper-I	derivates.
	Differentiability in n-dimension, gradients, chain rule, partial
	derivatives.
	Jacobin matrix. Hessian matrix, local extrema in two variables.
	Riemann integration, lower sum, upper sum, properties of Reimann
	integration.
	• Continuity of indefinite and improper integrals, mean value theorem,
	Abel's test.

Alpha, beta functions, area between curves, length of curves. ker(T),image(T),row space, solution of homogeneous and non **Mathematics** homogenous system of linear equations. Algebra Paper-II Determinants and their properties, cramer's rule, area of triangle. Dot product and their properties, norm of vectors, pythagorus theorem, orthogonal vectors and orthogonal compliments, Gram Schmidt's process of orthoganility. Groups, subgroups definition and their properties, Sn,U(n),K4,types of Cyclic groups and subgroups of cyclic groups and their properties. Lagrange's theorem, group homomorphism, cosets, kernel & image of homomorphism. **Discrete** Permutation and their properties, product and transpositions, sign of **Mathematics &** permutations, solving recurrence relation. Countability of number system. **Differential** equations Paper-III Pascal's identity, s(n,k), principal of inclusion and exclusion, Euler's function. Solving differential equations by variable separable method, by substitution method, exact differential equation, non-exact differential equations and their solutions techniques. Homogeneous and non-homogeneous second order differential equation, wronskian, auxillary equations. Linear system of ODE'S. T.Y.B.Sc. **Course Outcome Physical Chemistry-**Students understands the concept of dipole moment and its applications, Paper-1 derive the equations for energy of the molecules performing rotational motion and vibrational motion in terms of wave number, explain the Raman spectroscopy theory and should be able to solve numericals based on it. Students should be able to explain the colligative properties in chemical thermodynamics and various methods to determine the colligative properties. Students should be able to explain the collision theory of Chemical reaction rates. Classification of reaction rates. Concepts of Nuclear Chemistry. Detection and measurement of radioactivity, application of use of radioisotopes as tracers, nuclear reactions, fission process, fusion process. Students should be able to explain and derive Langmuir adsorption isotherm, types of adsorption isotherm, colloidal state, its electrical properties, micelle formation, classification of surfactants and its applications. Students are expected to know concepts of activity and activity coefficient, classification of cells, polarisation, decomposition potential and overvoltage. Basic terms in polymers, classification of polymers, molar mass of polymers, method of determining molar masses of polymers, light emitting polymers, antioxidants and stabilisers. Basics of Quantum Chemistry, classical mechanics, quantum mechanics, progressive and standing waves, renewable energy resources. Basics of NMR and ESR.

Inorganic Students are expected to understand basic concept of symmetry and **Chemistry-Paper-II** point group symbols, they must be able to know the importance of symmetry, point group in theoretical chemistry. Its expected that students must be aware about application of molecular orbital theory for polyatomic species like Be H2, CO2, H2O etc. Information of inner transition elements and their properties and extraction, information of metal carbonyls, 16th and 17th group elements must be known to students Knowledge about coordination chemistry and its bonding by various theories, organometallic chemistry, fundamentals of Bio inorganic chemistry of must be known to students. **Organic Chemistry-**Students will gain an understanding of the use of nuclear magnetic resonance spectroscopy, mass spectrometry and infrared spectroscopy Paper-III for organic structure elucidation. Understanding of organic reaction mechanisms to predict the outcome of reactions and to design syntheses of organic molecules. Knowledge in Organic photochemistry. Students should be able to understand the stereochemistry of molecules and their effect on chemical reactions. The fundamental structure, properties and reactivity of biologically important molecules (e.g. carbohydrates, proteins, nucleic acid, Alkaloids and Terpenoids). Student will gain an understanding of Green chemistry and application of the same in organic synthesis with selectivity. Differentiate between natural and man-made polymers. Explain polymerization methods. Analytical Students should be able to explain the theoretical principles of various Chemistry-Paper-IV separation techniques in chromatography, and typical applications of chromatographic techniques. Assess and suggest a suitable analytical method for a specific purpose, and evaluate sensitivity, important sources of interferences and errors, and also suggest alternative analytical methods for quality assurance. Applied component-To know the classification based on pharmacodynamic and Drugs & Dyeschemotherapeutic drugs, their application and synthesis. Paper V To understand the concept of routes of drugs administration and dosages. To understand the concept drug discovery, design and development. Students are able to have the knowledge of use of nano particles in medicinal chemistry and effect of drugs on the environment. To study the waste management in the field of dye industry. To understand the function of natural and synthetic dyes, paints and pigments. To understand different unit process involved in the synthesis of intermediates and dye molecules. Students are able to understand the concept of classification of dyes based on chemical constitution and application and their synthesis. They are able to understand the application of dyes in the various nontextile fields.

M.Sc. (Organic Chemistry) Programme outcome

- Determine molecular structure by using UV, IR and NMR.
- Study of medicinal chemistry for lead compound.
- Improve the Skill of student in organic research area.
- Synthesis of Natural products and drugs by using proper mechanisms.
- Study of Asymmetric synthesis.
- Determine the aromaticity of different compounds.
- Study retrosynthesis and design synthesis of different compounds in the field of pharma, dyes industry, natural products etc.
- Solve the reaction mechanisms and assign the final product.

MSc-I	Course Outcome
Semester I & II	Course Outcome
Physical Chemistry Paper I	 Students are expected to:- understand and explain the Maxwell's relations, state functions, Joule Thomson's effect, third law thermodynamic, standard molar entropies. Quantum chemistry, postulates, Schrodinger's equation and its solution for particle in one, three dimensional box, free particle, harmonic oscillator, Hermitian operators. Chemical Dynamics:- rate laws and kinetics of thermal chain reaction, decomposition reaction, polymerisation reactions, reactions in gas phase. Electrochemsitry:- Debye Huckel theory, Electrolytic conductance, batteries, bio-electrochemsitry, elementary reactions in solutions, enzyme catalysed reactions, inhibition of enzyme action, kinetics of solid state reactions Solid state chemistry:- types of defects and stoichiometry, phase equilibria, two component system, three component system.
Inorganic Chemistry- Paper-II	 Students are expected to know chemical bonding in specific polyatomic molecules like SF6, B2H6, I3, CO2, they should have an idea about weak intermolecular forces of attraction. Students are expected to know group multification table, group theoretical treatment, for molecules by use of group theoretical concept. Some environmental chemistry aspects should be known by students as well as some bio-inorganic concept of bio-molecules. They should know inorganic spectroscopic concept and coordination reaction mechanism.
Organic Chemistry Paper-III	 Students should understand the various type of aliphatic, aromatic, nucleophilic substitution reaction. Understand and apply principles of Organic Chemistry for understanding the scientific phenomenon in reaction mechanisms. Understanding of stereochemistry applied to different types of organic molecules. Learn the familiar name reactions, reagents and their reaction mechanisms. Determine molecular structure by using UV, IR, NMR and Mass spectroscopy.
Analytical Chemistry Paper-IV	The student is expected to know about language of analytical chemistry, quality management system, audit, safety in

	 laboratories, Accreditations, GLP. Calculations based on chemical principals. Optical methods (F.T.I.R, X-Ray), Thermal methods such as T.G.A, D.T.A and D. S.C. (instrumentation and applications) Automation in chemical analysis. Separation methods (G.C, H.P.L.C) Mass Spectrometry also the radio analytical methods and surface analytical techniques. They should know new sources for atomic spectroscopy. Electroanalytical methods such as electrogravimetry, couolometry etc.
MSc-II Semester III & IV	Course Outcome
Theoretical Organic	Students are able to understand the structure effects and reactivity
Chemistry- Paper-I	 by determination of reaction mechanism involving different intermediates for synthesis. Understanding of different types of pericyclic reaction and their mechanism under thermal and photochemical condition.
	 Stereochemistry of different molecules of medium ring size and their reactivity towards different reagents. Understanding the concept of racemisation and resolution method.
	Determination of enantiomers and diastereomers by chromatographic, chiral derivatisation agent and lanthanide shift reagents.
	 Concepts of supramolecular chemistry and their application with synthesis. Understanding of the concept of asymmetric synthesis with use of chiral auxillary in different types of reactions like aldol, sharpless epoxidation, aminohydroxylation, Diels-Alder reaction.
	• Photochemical reactions of different functional groups and their application.
Synthetic Organic Chemistry-	Understanding of various name reactions, their mechanism & applications.
Paper-II	 Understanding the concept of radical mechanism and its use in the organic synthesis. Study of various reaction intermediates, ylides, enamines and their
	reactions along with applications. • Concept of metals and non-metals use in organic synthesis.
	• Designing organic synthesis using protecting groups. Introduction of retro synthetic analysis.
	 Students are able to understand the electro-organic chemistry and selected methods of organic synthesis. Application of transition and rate earth metals in organic
	synthesis.
Natural Product, Heterocyclic chemistry and Spectroscopy -	• Student should be able to understand the classification, properties, structure elucidation and few syntheses of carbohydrates, natural pigments and insect pheromones.
Paper III	 Understand the multi-step synthesis of natural products and study of prostaglandins, lipids and insect growth regulators. Detail study of 1D-Proton NMR spectroscopy. Understand the
	factors affecting chemical shift, spin notations of various spin systems.

NMR Delta values & II Discuss the problem of Discuss the 2D-NMR s COSY, HETCOR, DEF same technique. Concepts of classification and synthesis of natural antibiotics and terpenoi Classification of heteror heterocycles with their reactions. Medicinal Chemistry, Biogenesis, Green chemistry and Research Methodology- Paper-IV Students are able to und design and development Understanding basic co drug action. Knowledge of the conn the drugs & their physic action & uses. Understanding of bioge Concepts of Green cher synthesis, ultrasound as Understanding basic co Identify appropriate res Select & define appropriate Prepare a project propo Write a research propose	PUV, IR and NMR & Mass. Spectroscopy with different techniques: PT, NOESY. Discuss the problems of the son, structure, occurrence, biological role of products like steroids, vitamins, ocyclic compounds of monocyclic and fused structure, reactivity, synthesis and derstand the concept of drug discovery, on and synthesis. Oncept of medicinal chemistry related to election between the structural features of cochemical characteristics, mechanism of enesis and biosynthesis of natural products. mistry and technologies like microwave essisted reaction. Oncepts of research & its methodologies. Search topics. Triate research problem and parameters. Osal, organise and conduct research.
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M.Sc (Information Technology)

M.Sc Programme Outcome

- Ability to apply the knowledge of Information Technology with recent trends aligned with research and industry.
- Ability to provide socially acceptable technical solutions in the domains of Information technology arena.
- Abiity to work in multidisciplinary environment in the context of changing technologies.

Programme Specific outcome

- Ability to apply IT in the field of Computational Research, Soft Computing, Big Data Analytics, Data Science, Image Processing, Artificial Intelligence, Networking and Cloud Computing.
- Ability to provide socially acceptable technical solutions in the domains of Information Security, Machine Learning, Internet of Things and Embedded System, Infrastructure Services as specializations.
- Ability to apply the knowledge of Intellectual Property Rights, Cyber Laws and Cyber Forensics and various standards in interest of National Security and Integrity along with IT Industry.
- Ability to write effective project reports, research publications and content development

Course outcome SEMESTER I

Course Name	Outcome	
Research in Computi ng	 A learner should be able to: Solve real world problems with scientific approach. Develop analytical skills by applying scientific methods. recognize, understand and apply the language, theory and models of the field of business analytics foster an ability to critically analyze, synthesize and solve complex unstructured business problems understand and critically apply the concepts and methods of business 	

Data Science	 Analytics identify, model and solve decision problems in different settings interpret results/solutions and identify appropriate courses of action for a given managerial situation whether a problem or an opportunity create viable solutions to decision making problems Apply quantitative modelling and data analysis techniques to the solution of real world business problems, communicate
	 findings, and effectively present results using data visualization techniques. Recognize and analyze ethical issues in business related to intellectual property, data security, integrity, and privacy Apply ethical practices in everyday business activities and make well- reasoned ethical business and data management decisions. problems. Use data mining software
	 Demonstrate knowledge of statistical data analysis techniques utilized in business decision making. Apply principles of Data Science to the analysis of business to solve real-world problems. Employ cutting edge tools and technologies to analyze Big Data. Apply algorithms to build machine intelligence. Demonstrate use of team work, leadership skills, decision making and organization theory.
Cloud Computing	 Analyze the Cloud computing setup with its vulnerabilities and applications using different architectures. Design different workflows according to requirements and apply map reduce programming model. Apply and design suitable Virtualization concept, Cloud Resource Management and design scheduling algorithms. Create combinatorial auctions for cloud resources and design scheduling algorithms for computing clouds Assess cloud Storage systems and Cloud security, the risks involved, its impact and develop cloud application Broadly educate to know the impact of engineering on legal and societal issues involved in addressing the security issues of cloud computing
Soft Computing Techniques	Identify and describe soft computing techniques and their roles in building intelligent machines • Recognize the feasibility of applying a soft computing methodology for a particular problem • Apply fuzzy logic and reasoning to handle uncertainty and solve engineering problems • Apply genetic algorithms to combinatorial optimization problems • Apply neural networks for classification and regression problems • Effectively use existing software tools to solve real problems using a soft computing approach • Evaluate and compare solutions by various soft computing approaches for a given problem.

COURSE OUTCOME SEMESTER-II

Course	Outcome	
Name		
Big Data Analytics	 Understand the key issues in big data management and its associated applications in intelligent business and scientific computing. Acquire fundamental enabling techniques and scalable algorithms like Hadoop, Map Reduce and NO SQL in big data analytics. Interpret business models and scientific computing paradigms, and apply software tools for big data analytics. Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc. 	
Modern Networking	 Demonstrate in-depth knowledge in the area of Computer Networking. To demonstrate scholarship of knowledge through performing in a group to identify, formulate and solve a problem related to Computer Networks Prepare a technical document for the identified Networking System Conducting experiments to analyze the identified research work in building Computer Networks 	
	 Develop web applications using Model View Control. Create MVC Models and write code that implements business logic within Model methods, properties, and events. Create Views in an MVC application that display and edit data and interact with Models and Controllers. Boost your hire ability through Innovative and independent learning. Gaining a thorough understanding of the philosophy and architecture of .NET Core Understanding packages, metapackages and framework Acquiring a working knowledge of the .NET programming model Implementing multi-threading effectively in .NET applications 	
Image Processing	 Understand the relevant aspects of digital image representation and their practical implications. Have the ability to design point wise intensity transformations to meet stated specifications. Understand 2-D convolution, the 2-D DFT, and have the ability to design systems using these concepts. Have a command of basic image restoration techniques. Understand the role of alternative color spaces, and the design requirements leading to choices of color space. Appreciate the utility of wavelet decompositions and their role in image processing systems. Have an understanding of the underlying mechanisms of image compression, and the ability to design systems using standard Algorithms to meet design specifications. 	

COURSE OUTCOME SEMESTER-III

M.Sc Programme Outcome

- Ability to apply the knowledge of Information Technology with recent trends aligned with research and industry.
- Ability to provide socially acceptable technical solutions in the domains of Information technology arena.
- Abiity to work in multidisciplinary environment in the context of changing technologies.

Programme Specific outcome

- Ability to apply IT in the field of Computational Research, Soft Computing, Big Data Analytics, Data Science, Image Processing, Artificial Intelligence, Networking and Cloud Computing.
- Ability to provide socially acceptable technical solutions in the domains of Information Security, Machine Learning, Internet of Things and Embedded System, Infrastructure Services as specializations.
- Ability to apply the knowledge of Intellectual Property Rights, Cyber Laws and Cyber Forensics and various standards in interest of National Security and Integrity along with IT Industry.
- Ability to write effective project reports, research publications and content development.

Subject	Outcome
Technical Writing and	1
Entrepreneurship	standard guidelines. Understanding the essentials and hands-on learning
Development	about effective Website Development.
	CO2: Write Better Quality Content Which Ranks faster at Search Engines.
	Build effective Social Media Pages.
	CO3: Evaluate the essentials parameters of effective Social Media Pages.
	CO4: Understand importance of innovation and entrepreneurship. CO5:
	Analyze research and development projects

Applied	CO1: be able to understand the fundamentals concepts of expert system and	
Artificial	its applications.	
Intelligence	CO2: be able to use probability and concept of fuzzy sets for solving AI based problems.	
	CO3: be able to understand the applications of Machine Learning. The learner can also apply fuzzy system for solving problems.	
	CO4: learner will be able to apply to understand the applications of genetic algorithms in different problems related to artificial intelligence.	
	CO5: A learner can use knowledge representation techniques in natural language processing.	
Machine Learning	CO1: Understand the key issues in Machine Learning and its associated applications in intelligent business and scientific computing.	
	CO2: Acquire the knowledge about classification and regression techniques where a learner will be able to explore his skill to generate data base knowledge using the prescribed techniques.	
	CO3: Understand and implement the techniques for extracting the knowledge using machine learning methods.	
	CO4: Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.	
	CO5: Understand the statistical approach related to machine learning. He will also Apply the algorithms to a real-world problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.	

Robotic	CO1: Understand the mechanism of business process and can provide the	
Process	solution in an optimize way.	
Automation		
	CO2: Understand the features use for interacting with database plugins.	
	CO3: Use the plug-ins and other controls used for process automation.	
	CO4: Use and handle the different events, debugging and managing the	
	errors. CO5: Test and deploy the automated process.	

COURSE OUTCOME SEMESTER-IV

Subject	Outcome
BlockChain	CO1: The students would understand the structure of a block chain and why/when it is better than a simple distributed database.
	CO2: Analyze the incentive structure in a block chain based system and critically assess its functions, benefits and vulnerabilities
	CO3: Evaluate the setting where a block chain based structure may be applied, its potential and its limitations
	CO4: Understand what constitutes a "smart" contract, what are its legal implications and what it can and cannot do, now and in the near future
	CO5: Develop blockchain DApps.
Cyber Forensics	CO1: Investigate the cyber forensics with standard operating procedures.
	CO2: Recover the data from the hard disk with legal procedure. CO3: To recover and analyse the data using forensics tool CO4: Acquire the knowledge of network analysis and use it for analysing the internet attacks.
	CO5: Able to investigate internet frauds done through various gadgets like mobile, laptops, tablets and become a forensic investigator.
Security Operations Centre	CO1: Understanding basics of SOC, Cryptography and managing and deploying VPNs.

CO2: Analyse Windows and Linux based logs along with logs generated by endpoints.
CO3: Understand and analyze various forms of intrusions, threats and perform forensic analysis on them.
CO4: Understand the incident response process and handle incidents by adhering to compliance policies and standards set by the organization.
CO5: Understand the various types of attacks and vulnerabilities, categorize events and perform incident analysis.

Human	CO1: have a clear understanding of HCI principles that influence a	
Computer	system's interface design, before writing any code.	
Interaction		
	CO2: understand the evaluation techniques used for any of the proposed system.	
	CO3: understand the cognitive models and its design.	
	CO4: able to understand how to manage the system resources and do the task analysis.	
	CO5: a	
	ble to design and implement a complete system.	

B.Com (Banking & Insurance)

Program Outcome

- The course clears concepts of Banking & Insurance.
- Provides knowledge on modern trends in banking & insurance industry
- Helps in train students in the field of finance, banking, accounting, insurance law, insurance regulations, etc
- Guides the students with theoretical knowledge as well as practical application and provides exposure to students in market reforms, new banking policies and regulations.
- Creates an additional avenue of self-employment and also benefits banks, insurance companies by providing suitable trained persons in the field of banking and insurance.
- Prepares students to make the best of opportunities being newly created in this field due to Globalization, Privatisation and Liberalization.

F.Y.B.Com (Banking & Insurance) Semester –I

Sr. No.	Subject Name	Course Outcome
1	Environment and Management of Financial Services.	To improve basic knowledge on environment and management and its financial services.
2	Principles of Management	To make the management concepts clear among the students
3	Financial Accounting - I	To developed the knowledge of various accounting standard and its accounting transactions.
4	Business Communication-I	To enhance communication skills of the students. It aids in personality development of the students.
5	Foundation Course - I	To make the better understanding about Indian society and constitution
6	Business Economics-I	It help to focus on effective use of economic resources to achieve defined objective
7	Quantitative Methods-I	To learn various quantitative method using statistical techniques.

F.Y.B.Com (Banking & Insurance) Semester –II

Sr. No.	Subject Name	Course Outcome
1	Principles and Practices of Banking & Insurance	To learn about the concepts, functions and types of banks and insurances.
2	Business Law	To learn basic concept of the constitution of India and its various types of law and Acts
3	Financial Accounting - II	To gain the knowledge of various accounting concept of companies related to long term sources of funds.
4	Business Communication-II	To enhance communication skills of the students. It aids in personality development of the students.
5	Foundation Course - II	To learn concepts of human rights, understanding of stress and conflicts & how to manage it
6	Organisational Behavior	To understand management theory and its practices and frame and how organization behavior is conducted in various field
7	Quantitative Methods-II	To improve the knowledge of students in mathematical technique

$S.Y.B.Com\ (Banking\ \&\ Insurance)\ Semester-III$

Sr. No.	Subject Name	Course Outcome
1	Financial management -I	To understand the financing evaluation technique
2	Management accounting	To get the knowledge about financial statement analysis and dividend policy
3	Organizational behavior	To understand the skill to developed knowledge related to behavior in organization
4	Information Technology in Banking & Insurance-I	Students will get the knowledge and understanding of E-Commerce and Cyber Security. They will learn MS-Excel

		and MS-Word.
5	Foundation Course – III (An Overview of Banking Sector)	To gain the knowledge of banking concepts, terms, about NABARD and micro finance
6	Financial markets	To develop knowledge of various financial market of India
7	Direct taxation	To learn the basic concept of direct tax

S.Y.B.Com (Banking & Insurance) Semester -IV

Sr. No.	Subject Name	Course Outcome
1	Financial management –II	To get the knowledge of financial management with reference to budgeting
2	Cost accounting	To get the knowledge about various cost accounting techniques
3	Entrepreneurship management	To understand various concepts, skills of entrepreneurship and its various theory
4	Information technology in banking & insurance-II	
5	Foundation course - IV (an overview of insurance sector)	To learn concepts, advantages of insurance and its various types
6	Corporate & securities law	To learn about new corporate rules and regulations
7	Business economics-II	To get the knowledge about economic relations of India with foreign countries

$\textbf{T.Y.B.Com} \ (\textbf{Banking \& Insurance}) \ \textbf{Semester-V}$

Sr. No.	Subject Name	Course Outcome
1	Financial Reporting & Analysis(Corporate Banking & Insurance)	To get practical accounting treatment in corporate banking and insurance
2	Auditing - I	To learn basic of auditing and understand vouching & verification

3	Strategic Management	To develop the understanding and decision making skills among the students related to business strategy
4	Business Ethics and Corporate Governance	Students learn the concepts of ethic, values, corporate governance in business.
5	International Banking and Finance	Making students capable to actively participate in the changing trends of foreign currency and international financial markets.
6	Research Methodology	To obtain the knowledge about research technique and tools in banking and insurance

$T.Y.B.Com\ (Banking\ \&\ Insurance)\ Semester\ -VI$

Sr.No	Subject Name	Course Outcome
1	Security Analysis and Portfolio Management	To understand introduction and process of portfolio management
2	Auditing - II	To enhance skill of auditing in banking companies
3	Human Resource Management	To understand human resources management in large and small businesses
4	Marketing in Banking & Insurance	To learn about the marketing concepts in relation to banking and insurance
5	Central Banking	Helps learners to understand the various policy measures of Central Bank in different economic scenario. It helps learners to appear for competitive exam

6	Project Work In Banking & Insurance	To develop the basic skills of research in banking & insurance
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B.Com (Accounting & Finance)

Program Outcome

- The course provides aspirants ample expertise and efficiency in the field of accounting, taxation, auditing, risk management, financial accounting, managerial economics, business law and business communication.
- Improves self-employment as well as benefits the organization by providing them suitably trained persons in the field of accounting and finance.
- Provides exposures to learners on new developments recent trends in accounting and finance
- Guides the students with theoretical knowledge as well as practical application and trains them adequately in market reforms, new finance policies and regulation.
- Prepares students to make the best of opportunities being newly created in accounting and finance field due to Globalization, Privatisation and Liberalization

F.Y.B.Com (Accounting & Finance) Semester –I

Sr. No.	Subject Name	Course Outcome
1	Financial Accounting (Elements of Financial Accounting) - I	To learn various accounting methods of manufacturing firms.
2	Cost Accounting (Introduction and Element of cost) - I	To understand basics of cost accounting & preparation of cost sheet.
3	Financial Management (Introduction to Financial Management) - I	Helps to know how to manage the finance and how to invest in the business. It also provides the knowledge of Interest calculation on bank deposits.
4	Business Communication- I	It enhances communication skills for the students and aids in their personality development.
5	Foundation Course - I	It enhances learner's knowledge on Indian society, culture and Indian Constitution.
6	Business Economics - I	Help to understand the working of an economy.
7	Commerce (Business Environment) – I	To make students understand the environmental implication affecting business.

F.Y.B.Com (Accounting & Finance) Semester –II -

Sr. No.	Subject Name	Course Outcome
1	Financial Accounting (Special Accounting Areas) - II	To learn special accounting areas like consignment, branch, fire insurance claims and account for incomplete records.
2	Auditing (Introduction and Planning) – I	Helps to know how to examine various financial statements in appropriate manner.
3	Innovation Financial Service	Develops the knowledge on various types of financial services and facilities.
4	Business mathematics	Develops logical and mathematical techniques of learners.
5	Foundation Course II	To make learner understand the LPG concept of Indian economy, Human rights, ecology & stress management skills.
6	Business Communication II	It enhances communication skills for the students and aids in their personality development.
7	Business Law (Business Regulatory Framework) - I	To understand the basic concept of law and various types of Act.

$S.Y.B.Com\ (Accounting\ \&\ Finance)\ Semester\ -III$

Sr. No.	Subject Name	Course outcome
1	Foundation Course in Commerce (Financial Market Operations) - III	To gain knowledge about financial terms, market, operation.
2	Business Law (Business Regulatory Framework) - II	To learn about legal framework.
3	Taxation - II (Direct Taxes Paper- I)	To impart to the students various source of income tax and its procedure to calculate Income Tax.
4	Auditing (Techniques of Auditing and Audit Procedures) – II	To get knowledge on techniques and procedures of auditing.
5	Business Economics - II	To teach the students major concepts of economy.
6	Financial Accounting (Special Accounting Areas)- III	To gain the knowledge about final A/c, Merger, piecemeal distribution & Foreign exchange.

7	Information Technology in Accountancy – I	Students will be able to understand E-business, techno management and application of Information Technology in banking. They will get the knowledge of MS-Office packages for institutional automation.
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$S.Y.B.Com\ (Accounting\ \&\ Finance))\ Semester\ -IV$

Sr. No.	Subject Name	Course Outcome
1	Financial Accounting (Special Accounting Areas) – IV	To acquire knowledge on companies related accounting treatment.
2	Research Methodology in Accounting and Finance	To understand basic research, Data collection, data processing, Sample and research report.
3	Taxation - III (Direct Taxes- II)	To understand tax saving and tax calculation of different person.
4	Foundation Course in Management (Introduction to Management) - IV	To obtain knowledge about management & its various skills.
5	Auditing – III	To understand the innovative tools and techniques of auditing.
6	Business Law (Company Law) - III	To understand concept of incorporation of company and its prospectus.
7	Information Technology in Accountancy -II	

T.Y.B.Com Accounting & Finance) Semester –V

Sr. No.	Subject Name	Course Outcome
1	Financial Accounting V	To learn about accounting standard and underwriting of shares and debentures.
2	Financial Accounting VI	To gain the knowledge about banking companies final a/c and valuation of goodwill and share.
3	Cost Accounting - III	To inculcate cost accounting system with special references to service costing and processing costing.
4	Financial Maagement –II	To provide adequate understanding about financial management and capital structure, cost of capital and credit policy etc.
5	Management - II (Management Applications)	To learn about different areas of management like finance, marketing, HR.
6	Taxation - IV (Indirect Taxes - II)	To learn the basic concepts of GST.

T.Y.B.Com (Accounting & Finance) Semester –VI

Sr. No.	Subject Name	Course Outcome
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1	Financial Accounting VII	To obtain the knowledge about co-operating and electricity companies accounting treatment.
2	Cost Accounting - IV	To get the knowledge related to effective cost structure and managerial decision.
3	Financial Management —III	To develop the understanding about business valuation and decision making related to finance.
4	Taxation - V (Indirect Taxes- III)	To understand the various concept of tax and IT refund.
5	Economics Paper – III (Indian Economy)	To understand the concept of our Indian economy.

6	Project Work	To develop basic research skills in relation to accounting finance & management.
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Computer Science

FYCS

Program Outcome

- To develop an understanding and knowledge of the basic theory of Computer Science with good foundation on theory, systems and applications.
- To foster necessary skills and analytical abilities for developing computer-based solutions of real-life problems.
- To provide training in emergent computing technologies which lead to innovative solutions for industry and academia.
- To develop the necessary study skills and knowledge to pursue further post-graduate study in computer science or other related fields.
- To develop the professional skillset required for a career in an information technology-oriented business or industry.
- To enable students to work independently and collaboratively, communicate effectively, and become responsible, competent, confident, insightful, and creative users of computing technology

Course Outcome

- To formulate, to model, to design solutions, procedure and to use software tools to solve real world problems.
- To design and develop computer programs/computer -based systems in the areas such as networking, web design, security, cloud computing, IoT, data science and other emerging technologies.
- To familiarize with the modern-day trends in industry and research-based settings and thereby innovate novel solutions to existing problems.
- To apply concepts, principles, and theories relating to computer science to new situations.
- To use current techniques, skills, and tools necessary for computing practice
- To apply standard Software Engineering practices and strategies in real-time software project development
- To pursue higher studies of specialization and to take up technical employment.
- To work independently or collaboratively as an effective tame member on substantial software project.
- To communicate and present their work effectively and coherently.
- To display ethical code of conduct in usage of Internet and Cyber systems.

To engage in independent and life-long learning in the background of rapid changing IT industry.

Specific Outcome

In the first year basic foundation of important skills required for software development is laid. Second year of this course is about studying core computer science subjects.

The third year is the further advancement which covers

Outcomes of Subjects of Computer Science

F.Y.B.Sc (Computer Science)

Outcome of Subjects

Semester I

Course Code	Course Title	Credits	Lectures /Week
USCS101	Digital Systems & Architecture	2	3

About the Course:

This course introduces the principles of computer organization and the basic architecture concepts. The course emphasizes performance and cost analysis, instruction set design, pipelining, memory technology, memory hierarchy, virtual memory management, and I/O systems.

Learning Outcomes:

After successful completion of this course, students would be able to

- To learn about how computer systems work and underlying principles
- To understand the basics of digital electronics needed for computers
- To understand the basics of instruction set architecture for reduced and complex instruction sets
- To understand the basics of processor structure and operation
- To understand how data is transferred between the processor and I/O devices

Course Code	Course Title	Credits	Lectures /Week
USCS102	Introduction to Programming with Python	2	3

About the Course:

This course is aims at introducing one of the fastest growing programming language of current time and enables learners to understand the fundamentals of programming with Python. Learners will be able to write programs to solve real-world problems, and produce quality code. It will help to develop strong skills of programming for implementing applications for emerging fields including data science and machine learning.

Learning Outcomes:

After successful completion of this course, students would be able to:

- Ability to store, manipulate and access data in Python
- Ability to implement basic Input / Output operations in Python
- Ability to define the structure and components of a Python program.
- Ability to learn how to write loops and decision statements in Python.
- Ability to learn how to write functions and pass arguments in Python.
- Ability to create and use Compound data types in Python

Course Code	Course Title	Credits	Lectures /Week
USCS103	LINUX Operating System	2	3

About the Course:

This syllabus will help to train students in fundamental skills and build-up sustainable interest in Linux Operating System. It will improve necessary knowledge base to understand Linux Operating System and its practical implementation, it will also help to develop Linux based solutions for real life problems.

Learning Outcomes:

After successful completion of this course, students would be able to

- Work with Linux file system structure, Linux Environment
- Handle shell commands for scripting, with features of regular expressions, redirections
- Implement file security permissions
- Work with vi, sed and awk editors for shell scripting using various control structures
- Install softwares like compilers and develop programs in C and Python programming languages on Linux Platform

Course Code	Course Title	Credits	Lectures /Week
USCS104	Open Source Technologies	2	3

About the Course:

Open Source Software is becoming an important resource for development, especially in developing countries. A working understanding of the economic and technical background of the Free / Open Source Software movement (FOSS) is essential for its effective use. The course takes students through the history and current status of the FOSS world, and starts them exploring it, by connecting their personal experiences with corresponding FOSS projects. Students will experience finding and using Open Source Software projects.

Learning Outcomes:

- Differentiate between Open Source and Proprietary software and Licensing.
- Recognize the applications, benefits and features of Open-Source Technologies
- Gain knowledge to start, manage open-source projects.

Course Code	Course Title	Credits	Lectures /Week
USCS105	Discrete Mathematics	2	3

About the Course:

Discrete Mathematics provides an essential foundation for virtually every area of Computer Science. The problem-solving techniques honed in Discrete Mathematics are necessary for writing complicated software. Discrete mathematics also builds the gateway to advanced courses in Mathematical Sciences, Data Science, Machine Learning, Software Engineering, etc.

Learning Outcomes:

After successful completion of this course, learners would be able to:

- Define mathematical structures (relations, functions, graphs) and use them to model real life situations.
- Understand, construct and solve simple mathematical problems.
- Solve puzzles based on counting principles.
- Provide basic knowledge about models of automata theory and the corresponding formal languages.
- Develop an attitude to solve problems based on graphs and trees, which are widely used in software.

Course Code	Course Title	Credits	Lectures /Week
USCS106	Descriptive Statistics	2	3

About the Course:

This course is designed to provide learners with an understanding of the data and to develop an understanding of the quantitative techniques from Statistics. It also provides the knowledge of different statistical tools used for primary statistical analysis of data.

Learning Outcomes:

After successful completion of this course, learners would be able to

- 1. Organize, manage and present data.
- 2. Analyze Statistical data using measures of central tendency and dispersion.
- 3. Analyze Statistical data using basics techniques of R.
- 4. Study the relationship between variables using techniques of correlation and regression.

Course Code Course Title	Credits	Lectures /Week
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USCS107	Soft Skills	2	3
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About the Course:

To help learners develop their soft skills and develop their personality along with technical skills. Focus on various communication enhancement along with academic and professional ethics.

Learning Outcomes:

- Learners will be able to understand the importance and types soft skills
- Learners will develop skills for Academic and Professional Presentations.
- Learners will able to understand Leadership Qualities and Ethics.
- Ability to understand the importance of stress management in their academic & professional life.

Semester II

Course Code	Course Title	Credits	Lectures /Week
USCS201	Design & Analysis of Algorithms	2	3

About the Course:

The course covers the concepts of - (i) calculating complexity of algorithms, (ii) the essential operations like searching, sorting, selection, pattern matching & recursion, and (iii) various algorithmic strategies like greedy, divide-n-conquer, dynamic programming, backtracking and implementations of all these on basic data structures like array, list and stack.

Learning Outcomes:

After successful completion of this course, students would be able to

- Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used.
- Students should be able to appreciate the use of various data structures as per need
- To select, decide and apply appropriate design principle by understanding the requirements of any real life problems

Course Code	Course Title	Credits	Lectures /Week
USCS202	Advanced Python Programming	2	3

About the Course:

This course aims to explore and enable learners to master the skills of advanced topics in Python Programming. It helps learners develops advanced skills such as working with databases, matching patterns, implementing threads and exception handling and GUI in Python. It also highlights and why Python is a useful scripting language for all developers.

Learning Outcomes:

After successful completion of this course, students would be able to

- Ability to implement OOP concepts in Python including Inheritance and Polymorphism
- Ability to work with files and perform operations on it using Python.
- Ability to implement regular expression and concept of threads for developing efficient program
- Ability to implement exception handling in Python applications for error handling.
- Knowledge of working with databases, designing GUI in Python and implement networking in Python

Course Code	Course Title	Credits	Lectures /Week
USCS203	Introduction to OOPs using C++	2	3

About the Course:

The course aims to introduce a new programming paradigm called Object Oriented Programming. This will be covered using C++ programming language. C++ is a versatile programming language, which supports a variety of programming styles, including procedural, object-oriented, and functional programming. This makes C++ powerful as well as flexible. It can be used to develop software such as operating systems, databases, and compilers.

Learning Outcomes:

After successful completion of this course, students would be able to

- Work with numeric, character and textual data and arrays.
- Understand the importance of OOP approach over procedural language.
- Understand how to model classes and relationships using UML.
- Apply the concepts of OOPS like encapsulation, inheritance and polymorphism.
- Handle basic file operations.

Course Code	Course Title	Credits	Lectures /Week
USCS204	Database Systems	2	3

About the Course:

The course introduces the core principles and techniques required in the design and implementation of database systems. It includes ER Model, Normalization, Relational Model, and Relational Algebra. It also provides students with theoretical knowledge and practical skills of creating and manipulating data with an interactive query language (MySQL). It also provide student knowledge and importance of data protection.

Learning Outcomes:

After successful completion of this course, students would be able to

- To appreciate the importance of database design.
- Analyze database requirements and determine the entities involved in the system and their relationship to one another.
- Write simple queries to MySQL related to String, Maths and Date Functions.
- Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.
- Understand the normalization and its role in the database design process.
- Handle data permissions.
- Create indexes and understands the role of Indexes in optimization search.

Course Code	Course Title	Credits	Lectures /Week
USCS205	Calculus	2	3

About the Course:

Calculus is a branch of mathematics that involves the study of rates of change. In Computer Science, Calculus is used in Machine Learning, Data Mining, Scientific Computing, Image Processing, and creating the graphics and physics engines for video games, including the 3D visuals for simulations.

Learning Outcomes:

After successful completion of this course, learners would be able to:

- Develop mathematical skills and enhance thinking power of learners.
- Understand mathematical concepts like limit, continuity, derivative, integration of functions, partial derivatives.
- Appreciate real world applications which uses the learned concepts.
- Skill to formulate a problem through Mathematical modelling and simulation.

Course Code	Course Title	Credits	Lectures /Week
USCS206	Statistical Methods	2	3

About the Course:

This course introduces the key concepts in probability, conditional probabilities and distribution theory, including probability laws, random variables, expectation and variance, functions of random variables and its probability distributions. Emphasis is placed on theoretical understanding combined with problem solving using various statistical inferential techniques.

Learning Outcomes:

After successful completion of this course, learners would be able to

- Calculate probability, conditional probability and independence.
- Apply the given discrete and continuous distributions whenever necessary.
- Define null hypothesis, alternative hypothesis, level of significance, test statistic and p value.
- Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.
- Apply non-parametric test whenever necessary.
- Conduct and interpret one-way and two-way ANOVA.

Course Code	Course Title	Credits	Lectures /Week
USCS207	E-Commerce & Digital Marketing	2	3

About the Course:

This course introduces the fundamental concepts of e-commerce, its types, the various legal and ethical issues of e-commerce and different e-commerce applications. The course also aims to introduce basic principles and types of digital marketing and web and Google analytics

Learning Outcomes:

After successful completion of this course, students would be able to

- Understand the core concepts of E-Commerce.
- Understand the various online payment techniques
- Understand the core concepts of digital marketing and the role of digital marketing in business.
- Apply digital marketing strategies to increase sales and growth of business
- Apply digital marketing through different channels and platforms
- Understand the significance of Web Analytics and Google Analytics and apply the same.

S.Y.B.Sc (Computer Science)

Outcome of Subjects

Semester III

1. Theory of Computation

Outcome: Understand Grammar and Languages, Learn about Automata theory and its application in Language Design, Learn about Turing Machines and Pushdown Automata, Understand Linear Bound Automata and its applications

2. Core Java

Outcome: Object oriented programming concepts using Java. Knowledge of input, its processing and getting suitable output. Understand, design, implement and evaluate classes and applets. Knowledge and implementation of AWT package.

3. **Operating System**

Outcome: To provide a understanding of operating system, its structures and functioning, Develop and master understanding of algorithms used by operating systems for various purposes.

4. Database Management Systems

Outcome: Master concepts of stored procedure and triggers and its use, Learn about using PL/SQL for data management, Understand concepts and implementations of transaction management and crash recovery

5. Combinatorics and Graph Theory

Outcome: Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings. Understand the combinatorial features in real world situations and Computer Science applications. Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems

6. Physical Computing and IoT Programming

Outcome: Enable learners to understand System On Chip Architectures, Introduction and preparing Raspberry Pi with hardware and installation, Learn physical interfaces and electronics of Raspberry Pi and program them using practical's, Learn how to make consumer grade IoT safe and secure with proper use of protocols

7. Web Programming

Outcome: To design valid, well-formed, scalable, and meaningful pages using emerging technologies, Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites To develop and implement client-side and server-side scripting language programs. To develop and implement Database Driven Websites. Design and apply XML to create a markup language for data and document centric applications.

Semester IV

1. Fundamentals of Algorithms

Outcome: Understand the concepts of algorithms for designing good program, Implement algorithms using Python

2. Advanced Java

Outcome: Understand the concepts related to Java Technology Explore and understand use of Java Server Programming

3. Computer Networks

Outcome: Learner will be able to understand the concepts of networking, which are important for them to be known as a '*networking professionals*', Useful to proceed with industrial requirements and International vendor certifications

4. Software Engineering

Outcome: Learner will be able to understand the concepts of software engineering, which are important for them to be known as a 'software engineers', Useful to proceed with industrial requirements and International vendor certifications

5. Linear Algebra using Python

Outcome: Appreciate the relevance of linear algebra in the field of computer science. Understand the concepts through program implementation, Instill a computational thinking while learning linear algebra.

6. Net Technologies

Outcome: Understand the .NET framework, Develop a proficiency in the C# programming language, Proficiently develop ASP.NET web applications using C#, Use ADO.NET for data persistence in a web application

7. Android Developer Fundamentals

- 1) Understand the requirements of Mobile programming environment.
- 2) Learn about basic methods, tools and techniques for developing Apps
- 3) Explore and practice App development on Android Platform
- 4) Develop working prototypes of working systems for various uses in daily lives.

T.Y.B.Sc (Computer Science)

Outcome of Subjects Semester V

1. Artificial Intelligence

Outcome:-Student will understand concept of AI and different search algorithms used for solving problems

2. Software Testing and Quality Assurance

Outcome:-Student will Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software. Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.

3. Information and Network Security

Outcome:-In this course student will able to Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application. Understand various protocols for network security to protect against the threats in a network

4. Web Services

Outcome:-Student will understand the details of web services technologies like SOAP, WSDL, and UDDI. To learn how to design, implement and deploy web service client and server.

5. Game Programming

Outcome:-Student will study Graphics and gamming concepts with present working style of developers where everything remains on internet and they need to review it, understand it, be a part of community.

Semester VI

1. Cloud Computing

Outcome:-Student will study the comprehensive and in-depth knowledge of Cloud Computing concepts, technologies, architecture, implantations and applications.

2. Cyber Forensics

Outcome:-Student will understand the procedures for identification, preservation, and extraction of electronic evidence, auditing and investigation of network and host system intrusions, analysis and documentation of information gathered

3. **Information Retrieval**

Outcome:-In this course student will be able to understand the field of information retrieval and its relationship to search engines. It will give the learner an understanding to apply information retrieval models.

4. **Data Science**

Outcome:-The students should be able to understand & comprehend the problem and should be able to define suitable statistical method to be adopted.

5. Ethical Hacking

Outcome:-Student will be able to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.

Department of Management Studies (BMS)

Programme outcome:-

The main aim of BMS course is to impart management skills and knowledge among students. To impart this knowledge, the academic program utilizes both classroom lectures and practical training. Businesses and Organizations across the world need skilled managers to take care of their daily operations. Managers are the ones who coordinate and manage the following things – human resources, finance, operations, decision-making, material resources, marketing etc.

BMS department of our college offers all three specializations offered by University of Mumbai from second year. They are as follows:

Other Information (if any)

HUMAN RESOURSE SPECIALIZATION

Students learn to develop, implement, and evaluate employee orientation, training, and development programs. Facilitate and support effective employee and labour relations in both non-union and union environments. Research and support the development and communication of the organization's total compensation plan.

• FINANCE SPECIALIZATION

The *finance specialization* in a business administration degree program introduces students to *financial* literacy, money management, and accounting principles. Students acquire knowledge regarding finance, various models and techniques and trading, clearing and settlement mechanism in market.

MARKETING SPECIALIZATION

Students understand distinctive features of various marketing activities, New trends and ways for marketing, International marketing trends and working.

	FYBMS		
SR. NO.	COURSE	OUTCOME	
1	Introduction to Financial Accounts	To introduce the basic theory, concepts and practice of financial accounting and to enable students to understand information contained in the published financial statements of companies and other organizations.	
2	Business Law	 Demonstrate an understanding of the Legal Environment of Business. Apply basic legal knowledge to business transactions. Communicate effectively using standard business and legal terminology. 	
3	Foundation of Human Skills	 To get knowledge about: Human beings, their personalities, environment, organizational power, politics, change and how to deal with them. Generating the team and team building as well as team work Leadership qualities and motivating factors 	
4	Business Statistics	 To get knowledge about: The ability to interpret statistical analysis tools commonly used in the workplace; The ability to critically evaluate a standard business report including the graphics, probability statements and resultant commentary; and, Use of Excel for basic data manipulation and simple statistical and graphical analysis 	
5	Foundation Course I Business Economics	 Nature of Indian Society The gender inequality in society Diversity As difference and disparity as inequality. Philosophy of the constitution of India. 	
O	– I	 Apply the concept of opportunity cost Employ marginal analysis for decision making Analyze operations of markets under varying competitive conditions Analyze causes and consequences of unemployment, inflation and economic growth. 	
7	Business Communication- I	Students are expected to be able to demonstrate a good understanding of: • effective business writing • effective business communications • research approaches and information collection • developing and delivering effective presentations • effective interpersonal communications	

	SYBMS		
SR.N O.	COURSE	OUTCOME	
1	Business Planning & Entrepreneurial Management	 Students will be able to define, identify and/or apply the principles of entrepreneurial and family business. Students will be able to define, identify and/or apply the principles of viability of businesses, new business proposals, and opportunities within existing businesses. Students will be able to define, identify and/or apply the principles of entrepreneurial management and growth through strategic plans, consulting projects and/or implementing their own businesses. 	
2	Information Technology in Business Management -I	 Design, document and develop robust, extensible and highly maintainable data-intensive applications using cutting edge technologies tailored to the specific needs of any business scenario. Explain and apply the core aspects of information technology principles and tools, and manage their implementation in a business context 	
3	Accounting for Managerial Decisions	 Understand the utility of Ratio Analysis, Financial Statements and Cash Flow Analysis in any organization. Comprehend different contemporary issues in Management Accounting and Reports & Reporting needs & Reporting Levels in an organization. 	
4	Strategic Manageme nt	 Identify the forces impacting on corporate and business strategies. Critically aware of factors involved in strategy making. Assess the resources and constraints for strategy making in a business context. 	
5	Foundation Course-IV	 Students should be able to identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past. Students should be able to write analytically in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources. 	
•	HR SPECIALIZATIO	ON	
1	Organizational Behavior& HRM	 Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization. Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization. 	
2	Recruitment & Selection	 Helps to create a talent pool of potential candidates for the benefits of the organization. To increases the pool of job seeking candidates at minimum cost. 	

		 It helps to increase the success rate of selection process by decreasing the no of visits qualified or over qualified job applicants.
•FIN	NANCE SPECIALIZATI	ON
1	Corporate Finance	 Identify the key themes in corporate finance. Explain the role of finance in an organization. Analyze the relationship between strategic decision making and corporate financing decisions.
2	Introduction to Cost Accounting	 Be able to identify the dynamics of human behavior and the basic factors that influence the consumers' decision process. Be able to demonstrate how concepts may be applied to marketing strategy
•MA	ARKETING SPECIALIZ	ATION
1	Advertising	 After completion of the requirements for this course, students will be able to: appreciate the ways that communication through advertising influences and persuades consumers; Discuss the role of the advertising agency and its client relationships. Discuss the decisions which need to be made in budgeting and planning for promotion;
2	Consumer Behavior	 Be able to identify the dynamics of human behavior and the basic factors that influence the consumers' decision process. Be able to demonstrate how concepts may be applied to marketing strategy

TYBMS			
COURSE	COURSE OUTCOME		
• CORECOURSE			
1 Logistics and Supply Chain Management	 Students are able to describe major logistics functions and activities. Differentiate logistics and supply chain management. Describe alternative ways to organize for supply chain management. Describe methods of inventory planning. Technological changes and its impact on logistics and supply chain management. Compare modes of transportation and related policies. Outline computer and supply chain security measures. 		
2 Corporate Communication & PR	 Understand of the concepts of corporate communication and public relations. Introduce the various elements of corporate communication and consider their roles in managing organizations. Examine how various elements of corporate communication must be coordinated to communicate effectively. Develop critical understanding of the different practices associated with corporate communication. 		
FINANCE SPECIALIZATION			

2	Investment Analysis and Portfolio Management Risk Management	 The learners are well acquainted with various concepts of finance. Students understood the terms which are often confronted while reading newspaper, magazines etc for better correlation with the practical world. Learners understood various models and techniques of security and portfolio analysis. Familiarize the student with the fundamental aspects of risk management and control. Give a comprehensive overview of risk governance and assurance with special reference to insurance sector. Introduce the basic concepts, functions, process, techniques of risk management.
3	Financial Accounting	□ Learners understood various transactions of Foreign currency, Accounting in relation to Purchase and sale, Computation and treatment of exchange difference. • Learners familiarised with relevant provisions of Companies Act related preparation of Final Accounts of the companies As per AS 1 • Learners acquainted with liability of underwriter in respect of underwriting contracts • Learners familiarised with relevant provisions of Companies Act relating to Investment Accounting as per AS 13 • Learners familiarised with ethical behaviour in the accounting profession.
4 • N	Direct Tax MARKETING SPECIAL Service Marketing	 Students gained the knowledge of Income Tax act 1961. Students understood the definitions under income tax act 1961. Students able to calculate income from Salary, House property, Capital Gain, Business and Profession, Other Sources. Students know the various exemptions available under section 10. Students learn and apply deductions under section 80 while calculating net taxable income. Students able to compute total income of assess.
	, and the second	 services marketing. Provide insight into ways to improve service quality and productivity. Understand marketing of different services in Indian context. E-Commerce and Digital Marketing.

Sales and Distribution Management	 Develop understanding of the sales & distribution processes in organizations. Get familiarized with concepts, approaches and the practical aspects of the key decision. Making variables in sales management and distribution channel management.
Customer Relationship Management	 Learner understood concept of Customer Relationship Management (CRM) and implementation of Customer Relationship Management. Students get insight into CRM marketing initiatives, customer service and designing CRM strategy. Learner understood new trends in CRM, challenges and opportunities for organizations.
E – Commerce & Digital Marketing	 □ Understand the E-Commerce, Myths and Impact of E-Commerce and Trends of E-commerce in various sectors. ● Get familiarised with concepts, Models and the applications of E-Business. ● Provide insight about Issues relating to Privacy and security in E-Business, Different Payment Systems and E-Commerce law. ● Understand the Digital Marketing on various social media platforms, Promoting Web traffic and latest development and strategies in digital Marketing.

•HR SPECIALIZATION **Industrial Relation**

•UK SLE	CIALIZATION	
Indust	rial Relation	 Demonstrate descriptive knowledge of the field of industrial relations. Apply the essential concepts of industrial relations and their interrelationship at the personal, organisational and national levels. Recognise and consider the social, historical and equity issues within industrial relatins. Investigate solutions to industrial relations problems based on research and assessment of current practices. Communicate your knowledge of industrial relations in both written and verbal formats reactive to both audience and purpose.

Performance Management	 The rating distribution – this will help the management to reward good performers and recognize their efforts, whereas it serves as a warning to poor performers to improve their performance. The final rating for employees is an outcome of the performance appraisal. This can help to detail out the compensation of the employees. An employee's competency gaps can be identified and areas of improvement in the performance can be suggested. Managers can take the necessary steps to help the employees improve on those areas. This will lead to growth of employees as well as organizational growth. Identification of high potential employees. This can help in succession planning of an organization. High potential employees can be nurtured and can turn out future leaders. The necessary training requirements of employees can be an outcome of the performance appraisals. This can be a very valuable input to the training department, who can plan their training calendar based on that.
Strategic HRM	 Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes Develop, implement, and evaluate employee orientation, training, and development programs. Collaborate with others, in the development, implementation, and evaluation of organizational and health and safety policies and practices. Research and analyze information needs and apply current and emerging information technologies to support the human resources function. Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness.

BAMMC (BA in Multimedia and Mass Communication)

BAMMC Programme Outcome

- 1. The program considers media industries and relationship to culture and society, and the understanding of hoe communication works.
- 2. Students would demonstrate the ability to apply rhetorical principles in a variety of creative, cinematic, organizational, professional and journalistic venues.

3. Learners will understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns.

Programme Specific Outcome

- 1. The program prepares students for a wide variety of careers in business and industry, advertising, public relations and journalism or advanced study.
- 2. The program will equip the learners with professional skills essential for making career in Entertainment industry, Cinema, Television, OTT Platform, social media platform, etc.
- 3. This program also give them an improved sense of self confidence and self efficacy and an awareness of their responsibilities as professional in their field.
- 4. Learners will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography and multimedia.

This programme will also give them an improved sense of self-confidence and self- efficacy and an awareness of their responsibilities as professionals in their field

- 5. Learners will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography, and multimedia. They will be better equipped to grasp the complex relationship between communication/media theories and a diverse set of individual, social, and professional practices.
- 6. Learners will understand the underlying philosophical assumptions of, and be able to apply, communication research methods to address a range of media texts and audiences, production and technological practices, and relevant social issues.
- 7. Learners will comprehend the foundations, process, and practices of writing for and about the media, and demonstrate proficiency in writing across platforms.
- 8. Learners will be able to conceptualize, design, and produce one or more works in media based on effective principles and practices of media aesthetics for a target audience. Also learners will acquire the knowledge and skills required to pursue a career in the specialization of their choice.

Course outcome SEM I

Course Name	Outcome
1. Effective Communication I	• To make the students aware of functional and operational use of language in media.
	• To equip or enhance students with structural and analytical reading, writing and thinking skills.
	To introduce key concepts of communications.
2. Foundation Course	• To introduce students to the overview of the Indian Society.
	To help them understand the constitution of India.

	• To acquaint them with the socio-political problems of India.
3. Visual Communication	• To provide students with tools that would help them visualize
	and communicate.
	Understanding Visual communication as part of Mass Communication
	To acquire basic knowledge to be able to carry out a project in the field of visual communication
	To acquire basic knowledge in theories and languages of Visual Communication
	The ability to understand and analyze visual communication from a critical perspective.
4. Fundamental of Mass Communication	To introduce students to the history, evolution and the development of Mass Communication in the world with special reference to India.
	• To study the evolution of Mass Media as an important social institution.
	• To understand the development of Mass Communication models.
	To develop a critical understanding of Mass Media.
	• To understand the concept of New Media and Media
5. Current Affairs	Convergence and its implications.To provide learners with overview on current developments
5. Current Arrains	in various fields.
	To generate interest among the learners about burning issues covered in the media
	To equip them with basic understanding of politics, economics, environment and technology so that students can grasp the relevance of related news.
	Twenty minutes of newspaper reading and discussion is mandatory in every lecture.
6. History of Media	Learner will be able to understand Media history through key events in the cultural history
	• To enable the learner to understand the major developments in media history.
	• To understand the history and role of professionals in shaping communications.
	• To understand the values that shaped and continues to influence Indian mass media.
	• Learner will develop the ability to think and analyze about media.
	To sharpen the reading, writing, speaking and listening skills that will help the students to understand the development of Media.

Course outcome SEM II

1. Introduction to Journalism	To help media students to acquaint themselves with an influential medium of journalism that holds the key to opinion formation & to create awareness.
2. Effective Communication II	 To make the students aware of use of language in media and organization. To equip or enhance students with structural and analytical reading, writing and thinking skills. To introduce key concepts of communications.
3. Foundation Course	 To introduce students to the overview of the Indian Society. To help them understand the constitution of India. To acquaint them with the socio-political problems of India.
4. Content Writing	 To provide students with tools that would help them communicate effectively. Understanding crisp writing as part of Mass Communication The ability to draw the essence of situations and develop clarity of thought.
5. Introduction to Advertising	 To provide the students with basic understanding of advertising, growth, importance and types. To understand an effective advertisement campaigns, tools, models etc. To comprehend the role of advertising, various departments, careers and creativity To provide students with various advertising trends, and future.
6. Media, Gender & Culture	 To discuss the significance of culture and the media industry. To understand the association between the media, gender and culture in the society. To stress on the changing perspectives of media, gender and culture in the globalized era.

SYBAMMC Course programme

Program	SYBAMMC
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	Semester	r III			
Title	Credit	Paper	Name of the Course		Course Code
AEEC	02	0.1	Electronic Media-I		BAMMC EM-3011
		01			
DSC		02	Corporate Communication and Public Relations	DSC-C1	BAMMC CCPR-302
DSC	(4×3)= 12	03	Media Studies	DSC-C2	BAMMC MS-303
DSC		04	Introduction to Photography	DSC-C3	BAMMC IP-304
DSE	04	05	Film Communication-I		BAMMC FCO-305
Practical	02	06	Computers and Multimedia-I		BAMMC CMM-306
	20				

SYBAMMC - Course outcome SEM III

Course Name	Outcome
1.Electronic Media-I	1. To make the students acquainted with working of the two powerful media; i.e. radio and television. The content is useful for both advertising and journalism students in order to further their careers in their respective fields.
2.Corporate Communication	1. To provide the students with basic understanding of the concepts of corporate communication and public relations.
and public relation	 To introduce the various elements of corporate communication and consider their roles in managing media organizations. To examine how various elements of corporate communication must be coordinated to communicate effectively in today's competitive world. To develop critical understanding of the different practices associated with corporate communication with the latest trends and social media tools.
3. Introduction to Media Studies	 To provide an understanding of media theories To understand the relationship of media with culture and society To understand Media Studies in the context of trends in Global Media.

4. Introduction to Photography	 To introduce to media learner the ability of image into effective communication. To help the learner understand that media photography is a language of visual communication and is far beyond just point and shoot fun moments. To practice how picture speaks thousand words 4.by enlightening the learner on how. To develop the base of visualization among learners in using pictures in practical projects. To help learner work on given theme or the subject into making a relevant picture or photo feature. 		
5.Film Communication-I	 To inculcate liking and understanding of good cinema. To make students aware with a brief history of movies; the major Cinema movements. Understanding the power of visuals and sound and the ability to Make use of them in effective communication. Insight into film techniques and aesthetics. 		
6. Computer Multi media- I	 To help learners make media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping out in the industry. To introduce the media software to make the learners understand what goes behind the scene and help them choose their stream. To prepare learners skilled enough for independency during project papers in TY semester VI. To help learners work on small scale projects during the academic period. 		

SYBAMMC - Course outcome SEM IV

Course Name	Outcome		
1. Electronic Media-II	 To make the students acquainted with working of the two powerful media; i.e. radio and television. The content is useful for both advertising and journalism students in order to further their careers in their respective fields. 		
2. Writing for the Media	 in order to further their careers in their respective fields. Provide the ability to understand writing styles that fit various media platforms. It would help the learner acquire information gathering skills and techniques. On completion of this course, students will be able to understand similarities and differences in writing for all forms of media including internet and digital. The learner will gather knowledge of different news and copy formats along with appropriate style-sheets and layout. The learner will imbibe the importance of writing clearly, precisely and accurately for different types of audiences Provide acquire basic proficiency in proof-reading and editing. 		
3. Media Ethics and Laws	1. To provide the learners with an understanding of laws those impact the media.		

	2. To sensitize them towards social and ethical responsibility of media.	
4. Mass Media Research	1. To introduce students to debates in Research approaches and equip them with tools to carryon research	
	2. To understand the scope and techniques of media research, their utility and limitations.	
5. Film Communication-II	 Awareness of cinema of different regions. Understand the contribution of cinema in society. How to make technically and grammatically good films. From making to marketing of films. Economic aspects of film. Careers in films. 	
6. Computer Multimedia -II	 To help learner be media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping in the industry. To introduce the media soft wares to make the learner understand what goes behind the scene and help them choose their stream. To prepare learner skilled enough for independency during project papers in TY sem.VI. To help learners work on small scale projects during the academic period. 	

TYBAMMC (ADVERTISING)

COURSE CODE	CREDITS	COURSE NAME
COMPULSORY-	04X2=08	DRG(DISCIPLINE RELATED GENERIC)
CORE		
BAMMC DRGA-501	04	1 COPY WRITING
BAMMC DRGA-502	04	2 ADVERTISING & MARKETING RESEARCH
ELECTIVES-	03X04=12	DSE 1 A (DISCIPLINE SPECIFIC ELECTIVES-)
		(ANY FOUR COURSES)
BAMMC EAGI 1501		1. GLOBALIZATION & INTERNATIONAL
		ADVERTISING
BAMMC EABB 1502		2. BRAND BUILDING
BAMMC EAAM 1503		3. AGENCY MANAGEMENT
BAMMC EAAP 1504		4. ACCOUNT PLANNING & ADVERTISING
BAMMC EASM 1505		5. SOCIAL MEDIA MARKETING
BAMMC EADM 1506		6. DIRECT MARKETING & E-COMMERCE
BAMMC EACB 1507		7. CONSUMER BEHAVIOUR
BAMMC EADF 1508		8. DOCUMENTARY & AD FILM MAKING
TOTAL	20	

COMPULSORY- CORE	04X2=08	DRG(DISCIPLINE RELATED GENERIC)
BAMMC DRGA-501	04	3. COPY WRITING
BAMMC DRGA-502	04	4. ADVERTISING & MARKETING RESEARCH

Course Name	Outcome
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1. COPYWRITING	- To familiarize the students with the concept of copywriting as
1. COLI WILLING	selling through writing
	-To learn the process of creating original, strategic, compelling
	copy for various mediums
	- To train students to generate, develop and express ideas
	effectively
	- To learn the rudimentary techniques of advertising
	headline and body copywriting, the economy of words and
	thought peculiar to this type of writing, and the necessity of
	creative thinking in written expression.
2. ADVERTISING &	
MARKETING	-The course is designed to inculcate the analytical abilities and research skills among the students.
RESEARCH	-To understand research methodologies – Qualitative Vs
	Quantitative Vs
	-To discuss the foundations of Research and audience
	analysis that is imperative to successful advertising.
	-To understand the scope and techniques of Advertising and
	Marketing research, and their utility.
3.GLOBALIZATION AND	- To introduce to media students about the concept of
INTERNATIONAL	Globalization and its impact on Global Media and
ADVERTISING	International Advertising.
	-To help the student understand and practice Global
	Communication.
	-To introduce to media students about concept and process of
	International advertising.
	-To help students formulate international advertising campaign by identifying strategies, barriers,
	challenges and steps to create international
	advertising.
	- Career opportunities: As Global Brand Managers, Global
	Content Writer for Ads and Ad Campaigns, Global Market
	Communicators in Digital Media, career in ad agencies for Global
	Market.
4 DDAND DITH DING	- To understand the awareness and growing importance of Brand
4. BRAND BUILDING	Building
	- To know how to build, sustain and grow brands
	- To know the various new way of building brands
	- To know about the global perspective of brand building.
5.AGENCY	-To acquaint the students with concepts, techniques and
MANAGEMENT	give experience in the application of concepts for developing an effective advertising campaign.
	-How an ad agency works and what opportunities exist
	-To inculcate competencies thereby enabling to undertake
	professional work with advertising industry.
	The state of the s
6. Consumer Behaviour	-To understand the sociological & psychological perspective of
	consumer behaviour.
	-To introduce students to the complexities of consumer
	behaviour, its importance in marketing & advertising.
	To sensitize students to the changing trends in consumer
	behaviour.

TYBMM Course outcome

SEM VI (Advertising)

COURSE CODE	CREDITS	COURSE NAME
COMPULSORY- CORE	04X2=08	DRG(DISCIPLINE RELATED GENERIC)
BAMMC DRGA-601	04	1. DIGITAL MEDIA
BAMMC DRGA-602	04	2. ADVERTISING DESIGN
ELECTIVES-	03X04=12	DSE 1 A (DISCIPLINE SPECIFIC ELECTIVES-) (ANY FOUR COURSES)
BAMMC EAAC 2601		1. ADVERTISING IN CONTEMPORARY SOCIETY
BAMMC EABM 2602		2. BRAND MANAGEMENT
BAMMC EAMP 2603		3. MEDIA PLANNING & BUYING
BAMMC EAAS 2604		4. ADVERTISING & SALES PROMOTION
BAMMC EARM 2605		5. RURAL MARKETING & ADVERTISING
BAMMC EARE 2606		6. RETAILING & MERCHANDISING
BAMMC EAEM 2607		7. ENTERTAINMENT & MEDIA MARKETING
BAMMC EATP 2608		8. TELEVISION PROGRAM PRODUCTION
TOTAL	20	

Course Name	Outcome
1. DIGITAL MEDIA	- Understand digital marketing platform
	-Understand the key goals and stages of digital campaigns
	-Understand the of use key digital marketing tools
	-Learn to develop digital marketing plans
2. ADVERTISING DESIGN	-Learner shall understand the process of planning &
	production of the advertisement.
	-To highlight the importance of visual language as effective
	way of communication.
	-To provide practical training in the field of advertising &
	make learner industry ready.
	, ,
3.ADVERTISING & SALES	- Students should be able to demonstrate a thorough
PROMOTION	understanding of the major
	sales promotion concepts,
	-Use a framework to make effective sales promotion
	decisions, and
	-Adopt the necessary skills and point of view of an effective
	sales promotion
4.RURAL MARKETING &	- To introduce to Media students about the concept of Rural
ADVERTISING	Marketing and
	Rural economy.
	-To make students to understand about Rural
	Environment and demography of Rural India.

	-To help students to understand marketing Mix
	Strategies for Rural Consumer and Agricultural
	goods and service.
	-To develop communication skills in media
	students and to understand Rural
	communication in contemporary society.
5. ENTERTAINMENT &	- Introducing the students to television industry and film
MEDIA MARKETING	industry.
	-Will make students go through different case studies regarding radio marketing skills, Social media marketing skills etc.
	-Will help to know the impact of media
	industry on the viewers, understanding its
	characteristics
6.TELEVISION PROGRAM	-Will help to analyse the cultural impact of television on the
PRODUCTION	audience.
	-Understating Television Journalism.
	-Introducing the Contemporary Trends of Television programming to students.
	-Help the students to gain knowledge regarding the various measurement formats and reporting skills of television.

TYBMM- SEM- V (Journalism)	
4 555655516	COMPULSORY- CORE- DRG(DISCIPLINE
1. REPORTING	RELATED GENERIC)
	BAMMC 04 1. REPORTING DRG-501
	BAMMC 04 2. INVESTIGATIVE
	DRG-502 JOURNALISM
2.INVESTIGATIVE JOURNALISM	 To enable students to become Reporters which is supposed to be a prerequisite while entering into the field of Journalism. To make them understand basic ethos of the news and news-gathering. To prepare them to write or present the copy in the format of news. To develop nose for news. To train them to acquire the skills of news-gathering with traditional as well. Understand the role of investigative reporting in modern journalism To learn to conduct investigative research in an ethical manner. To create and write excellent investigative stories for media. To acquire advanced investigative journalistic skills
	5. Learner will acquire the ability to understand and analyse the key areas of investigative journalism even with limited resources.
3. Features and Writing For	1To provide students with technique of narration and
Social Justice	storytelling
	2. To share the art of developing a story idea3. To acquaint and sensitize them through assignments to the issues of deprivation
	around us and using writing as a tool for social justice
4.JOURNALISM and PUBLIC OPINION	 To understand the role of media in influencing and impacting Public opinion. To analyse the formation of Public opinion through digital and social media. To analyse the impact of the media on public opinion on socio-economic issues. To make students aware of theoretical framework of research on media and society.
5. GLOBAL MEDIA and CONFLICT RESOLUTION	To help students understand the difference in the role and structure of the media across the globe.

	 To develop an understanding of the hold of media conglomerates and the issues of cultural differences To help students appreciate the potential of media in resolving conflicts.
6. MEDIA LAWS and ETHICS	 To help students understand the laws that impact the media To develop an understanding of the ethical responsibilities of the media To help students appreciate the challenges of fake news and misinformation in a new changing ecosystem of news and information.

TYBMM SEM-VI	JOURNALISM
Course	Outcome
1. DIGITAL MEDIA	 Understand digital marketing platform Understand the key goals and stages of digital campaigns Understand the of use key digital marketing tools Learn to develop digital marketing plans
2.NEWSPAPER and MAGAZINE DESIGN	 The learner is required to understand the process of print media production since the content collection to the final print ready layout. This includes news weightage as well as article relevancy and the visual treatment to the text block. The appearance of the various text blocks matters in layout. Learner should be able to reconstruct headlines suitable for the space keeping the core meaning and intensity intact. Learners are expected to develop software skills to be employable in industry. Learners shall develop the aesthetic vision and understand the discipline behind a layout.
3. CONTEMPORARY ISSUES	 To stress the importance of social economic political aspects of the society as a media professional. To understand the role of media as a strategy to create awareness on various issues and mobilise to bring social progress.
4. MAGAZINE JOURNALISM	This course introduces the students to the nuances of magazine journalism, feature writing and Reviews.
5. FAKE NEWS and FACT CHECKING	To give media students the understanding of the differentiation between real news and fake news.

	 To make media students aware of information disorder. To give students a thorough knowledge of information literacy and media. To give students a hand on knowledge on fact checking. To give students a practical overview of social media verification. Career Opportunities: Investigative Journalist, Jobs in Media Houses, Google ,Internship in International Fact Checking Network, Jobs in Social Media as Fact Checkers
6. TELEVISION JOURNALISM	 To provide students with technique of narration and story telling To share the art of developing a story idea To acquaint and sensitize them through assignments to the issues of deprivation around us and using writing as a tool for social justice