CH.S.D.ST.THERESA'S COLLEGE FOR WOMEN
(AUTONOMOUS)
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Department of English

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
General English	**I**	**I**	**I**	**A Course In Communication And Soft Skills**	The Expected learning outcomes of the general English the students are expected course is that todemonstratethe following: **CO 1:** Use grammar effectively in writing and speaking. **CO 2:** Demonstrate the use of good vocabulary **CO 3:** Demonstrate an understating of writing skills **CO 4:** Acquire ability to use Soft Skills in professional and daily life. **CO 5:** Confidently use the tools of communication skills
	I	**II**	**II**	**A Course In Reading And Writing Skills**	**CO 1:** Use reading skills effectively **CO 2:** Comprehend different texts **CO 3:** Interpret different types of texts **CO 4:** Analyse what is being read **CO 5:** Build up a repository of active vocabulary **CO 6:** Use good writing strategies **CO 7:** Write well for any purpose **CO 8:**Improve writing skills independently for future needs

Department of Telugu

అభ్యసనఫలితాలు-2020-2021

Subject	Year	Semester	Course	Title of the course	Course outcomes
జనరల్తెలుగు	I	I	I	ఆధునికసాహిత్యం	CO 1:ఆంగ్లభాష ప్రభావం వల్ల వచ్చిన పరిణామాల ఫలితంగా ఏర్పడిన ఆధునిక తెలుగు సాహిత్య స్వరూప స్వభావాలను తెలుసుకుంటారు. CO 2:ఆధునిక సాహితీ ప్రక్రియలను అవగాహన చేసుకోవడం ద్వారా సమాజంపై సాహిత్య ప్రభావాన్ని తెలుసుకోగలరు. CO 3:సామాజిక మార్పులు సాహిత్యంలో ఎలా ప్రతిబింబించింది గ్రహిస్తారు. CO 4: స్త్రీపురుషులసమానులేఅన్నఆధునికభావాలనుతెలిపేస్త్రీవాదదృక్పదాన్నిగూర్చిఅవగాహనపొందుతారు . CO 5:మూలభాషనుంచిలక్ష్యభాషలోకిభాషాంతరీకరణంచేయగలిగేనేర్పునుగూర్చిఅవగాహనపొందుతారు .
		II	II	ప్రాచీనకవిత్వం	CO 1:ప్రాచీనతెలుగుసాహిత్యంయొక్కప్రాచీనతను, విశిష్టతనుగుర్తిస్తారు. నన్నయ, తిక్కనకాలంనాటిభాషాసంస్కృతులను, ఇతిహాసకాలంనాటివిషయాలపట్లపరిజ్ఞానాన్నిసంపాదించగలరు. CO 2:పోతనభక్తితత్వాన్ని, భాగవతవిశిష్టతనుతెలుసుకోగలరు. CO 3:ప్రబంధకవులరచనావిశిష్టతనుధూర్జటిశైవభక్తినితెలుసుకోగలరు. CO 4:ప్రబంధకవులరచనావిశిష్టతనుధూర్జటిశైవభక్తినితెలుసుకోగలరు. CO 5: .ప్రాచీనకావ్యభాషలోనివ్యాకరణాంశాలనుఅధ్యయనంచేయడంద్వారాభాషాసామర్థ్యాన్ని పెంపొందించుకోగలరు.
		III	Paper III	తెలుగుభాష, వ్యక్తిత్వవికాసం	CO 1: తెలుగుజాతి – భాషప్రాచీనతసాహితీవైశిష్ట్యాన్నితెలుసుకోగలరు. CO 2: వ్యక్తి- వ్యక్తిత్వం-వ్యక్తిత్వవికాసంలోఆశావాదం, శ్రమ, సమయపాలనప్రాముఖ్యంగురించితెలుసుకుంటారు. CO 3: స్త్రీపురుషులసమానులేఅన్నఆధునికభావాలనుతెలిపేస్త్రీవాదదృక్పదాన్నిగూర్చిఅవగాహనపొందుతారు CO 4: స్త్రీపురుషులుధరించేఆభరణాలలోఈవీడియోఉన్నటువంటిఆరోగ్యసూత్రాలను

					శాస్త్రీయదృక్పథాలనుగూర్చిఅవగాహనపొందుతారు. CO5: పత్రికారచనపరిణామవికాసాలువిలేకరిగారాణించాలంటేపంపొందించుకోవాల్సినటువంటినైపుణ్యాలుగూర్చితెలుసుకుంటారు.

Department of Mathematics
Course Outcomes-2020-21

Subject	Year	Semester	Course	Title of the Course	Course Outcomes
Mathematics	I	I	Paper-1	Differential Equations	CO 1: Know first order first degree linear differential equations. CO 2: Know the methods of finding solution of a differential equation of first order but not of first degree. CO 3: Understand the higher-order linear differential equations for both homogeneous and non-homogeneous, with constant coefficients. CO 4: Understand and apply the appropriate methods for solving higher order differential equations. CO 5: Know the methods of Cauchy's Euler and Lagrange's Differential Equations.
		II	Paper-II	Analytical Solid Geometry	CO 1: Understand planes and system of planes. CO 2: Know the lines and their properties. CO 3: Understand the Spheres and their properties. CO 4: Know the Orthogonal spheres and coaxial system of spheres.the Spheres. CO 5: Know the Concept of Cones, Enveloping cones and Right circular cones.
	II	III	Paper-III	Abstract Algebra	CO 1: Acquire the basic knowledge and structure of groups. CO 2: Get the significance of the notation of a subgroup and cosets. CO 3: Understand the concept of normal subgroups and properties of normal subgroups. CO 4: Study the homomorphisms and isomorphisms with applications. CO 5: Understand the properties of permutation and cyclic groups.
		IV	Paper-IV	Real Analysis	CO 1: Get clear idea about the limit of a sequence and Convergent sequence – The Cauchy's criterion. CO 2: Obtain the skills of analysing the concepts and applying appropriate methods for testing convergence of series.

					CO 3: Know about the Real valued Functions, Limits of functions, bounded ness of a function, Continuous functions. CO 4: Understand the derivability of a function at a point and on an interval, Derivability and continuity of a function and Meanvalue Theorems. CO 5: Know about the Riemann integral functions, Properties of integrable functions, Fundamental theorem of integral calculus.
	III	V	Paper-V	Ring Theory &LinearAlgebra	CO 1: Acquire the basic knowledge of rings, fields and integral domains,subrings and ideals. CO 2: Get the knowledge of Homomorphism of Rings. C03: Understand the concepts of Vector spaces, Subspaces. CO4:Understand the concepts of Basis, Dimension and their properties. CO:5 Understand the concept of Linear transformation and its properties.
			Paper-VI	Multiple Integrals & Vector Calculus	CO1. Learn Multiple Integrals as a natural extension of definite Integral to a function of two variables in the case of double integral/three variables in the case of triple integral. CO2. Learn applications in terms of finding Surface area by Double Integral and volume by Triple integral. CO3. Determine the Gradient,Divergence and Curl of a vector and Vector identities. CO4. Evaluate Line,Surface and Volume Integrals. CO5. Understand the Relation between Surface and Volume integrals,Relation between the Line integral and Volume integral,Relation between Line and Surface integral.
		VI	PAPER-VII(A)	Numerical Analysis and Computer Programming in C	CO 1: Difference between the Forward, Backward operators and the relation between them. CO 2: Know about the Newton-Gregory and Backward interpolation. CO 3: Know the central difference operators and relation between them.

					CO4: Know the Algorithms ,Flowcharts,Structure of C Programme, Operators. CO5: Know the Looping statements, Functions.
			Paper-VII(B)	Discrete Mathematics	CO 1: Know the sets, operations of sets ,Relations and Fundamentals of Logic. CO 2: Know about the Methods of Implication CO 3: Know the Generating functions of sequences.. CO4: Know the Recurrence Relations CO5: Solutions of the Recurrence relations by various methods
			Paper-V(IIIA1)	Advanced Numerical Analysis and Computer Programming in C	CO 1: Understand the process of Numerical Integration. . CO 2: Know Algebraic and Transcendental equations.. CO 3:Understand the Numerical Solution of Ordinary Differential Equations. . CO4: Know the Arrays.Strings. CO5: Know the Structure of C, union Files..
			Paper-VIII(B1)	Graph Theory & Boolean Algebra	CO1:Know the relations and Digraphs. CO2: Understand the Isomorphism and properties of trees. CO3: Know the Spanning trees, Directed trees, Binary Trees. CO4: Understand the Multi graphs, Hamiltonian Graphs and Chromatic Numbers. Co5: Understand the Boolean Functions,Switchining Mechanisms, Minimizations of Boolean Functions.
			Paper-VIII(A2&B2)	Special Functions	CO 1: Get the knowledge of Hermite equation, generating functions, orthogonal properties of Hermite Polynomials and recurrence relations. CO2:Acquire the knowledge of Laguerre polynomial, generating functions, orthogonal properties,Recurrence relations. CO3:Acquire the knowledge of Legendre equation, generating functions, orthogonal properties of Legendre Polynomials. CO4:Understand the generating function, Recurrence relations,

					orthogonal properties of Bessel's Equation. CO5:Understand the Beta and Gamma functions, their properties and relation between these two functions
			Paper-VIII(A3&B3)	Matrix Theory	CO1: Know the rank of a Matrix.. CO2:Understand the Linear Equations. CO3: Acquire the Eigen values and Eigen vectors. CO4:Understand the Cayley Hamilton theorem. CO5: Understand the Orthogonal Vectors.

Department of Statistics

Course Outcomes 2020-21

Subject	Year	Semester	Course	Title of the Course	Course outcome
Statistics	I	I	I	Descriptive statistics and probability	CO:1 Students will Analyze statistical data using measures of central tendency, dispersion and location. CO2:Calculate probabilities, and derive the marginal and conditional distributions of bi variate random variables. CO3: Analyze Statistical data using MS-Excel.
		II	II	Mathematical Expectations & Probability Distributions	CO1:Students will Use discrete and continuous probability distributions, including requirements, mean and variance, and making decisions. CO2:Also derive formulae by using Mathematical expectations.
	II	III	III	Statistical Methods &Theory of Estimation	CO1:Students will Gain Knowledge on important of Statistical concepts in Statistical Methods such as Correlation, Regression, Curve fitting &Methods in Estimation. CO2: Demonstrate understanding of the theory of maximum likelihood estimation. CO3: Also Analyze Statistical data using MS-Excel.
		IV	IV	Testing of Hypothesis	CO1:Students can understand the concept of Testing of Hypothesis in large and small samples ,they also learn the calculation of those methods such and differences between means, standard deviations and correlations. Co2:Also learn the construction of Non-Parametric tests
			V	Sampling and ANOVA	CO1: Students can understand the fundamental concepts of Sampling and Experimental Design such as ANOVA,

	III	V			CRD,RBD. ANCOVA. CO2: Students will Gain Knowledge on Sampling techniques such as Simple random sampling, systematic random and stratified random sampling.
			VI	Operations Research	**CO1:** students can Gain the knowledge on optimization techniques. CO2:Also know the construction of those techniques such as Graphical, Simplex, Big-M, Two-Phase and Dual simplex methods. CO3: Students can solve the problems in Transportation and sequencing.
		VI	VII	Applied Statistics using R-Programming	CO1: students can Demonstrate and understanding the concept of time series and its applications in different areas. CO2: Acquire knowledge on vital statistics, Index numbers and calculate an indices from given data. Explain how supply and demand relationships between the price of a product and the quantity of the same product. CO3: Analyze statistical data using MS-Excel R-Programming
			VIII A1	Quality and Reliability	CO1:Understand the concepts of quality control, chance and assignable causes of variation, control charts for variables and attributes, producer's and consumer's risk -Acceptance samplingplans. CO2: Understand the setting of mean chart limits, range chart limits using mean and range charts. CO3: Analyze statistical data using MS-Excel.
			VIII A2	Designs of Experiments	CO1:Students will be able to know the concepts of ANCOVA. CO2: BIBD, PBIBD and factorial Designs such as $2^2, 2^3, 3^2, 3^3$.

Department of Physics & Electronics
Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Physics	**I**	**I**	**I**	Mechanics and Waves & Oscillations	At the end of the course students will be able to: CO 1:Specialize and update knowledge within one of the main specializations of the mechanics. CO 2: Comprehend complicated practical problems in Mechanics, specify the problem mathematically and identify suitable analytical and/or numerical solution methods, and prospective experimental methods. CO3:Understand the different concepts of vectors and their integrations . CO 4:Understand Collisions in one and two dimensions & relation between scattering cross section and impact parameter. CO 5: Understand the concepts of rigid body and Solve differential equations in concepts of fundamentals of vibrations.
		II	**II**	WAVE OPTICS	At the end of the course students will be able to: CO 1:understands behavior of light in different mediums and analyses the behavior of light in mirrors and lenses CO2 :Interpret reflection and refraction of light to determine light propagation in different media CO 3: Use mathematical analysis to calculate image properties formed by a mirror, a lens and their combinations CO 4: Interpret constructive and destructive interference to visualise interference/diffraction patterns. CO 5:Use mathematical analysis to find bright and dark fringes in an interference/diffraction pattern and use mathematical analysis to find a wavelength diffracted by a grating.

Department of Physics & Electronics

Electronics Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Electronics	**I**	**I**	Paper I	Circuit Analysis	At the end of the course, the student will be able to: CO 1: To understand basic electrical properties CO 2: To analyze electrical circuits CO 3: To find circuit response using Laplace transforms CO 4: To understand signal superposition and Fourier transform
		II	Paper II	Electronic devices	At the end of the course, the student will be able to: CO 1: To understand operation of semiconductor devices. CO 2: To understand DC analysis and AC models of semiconductor devices. CO 3: To apply concepts for the design of Regulators and Amplifiers CO 4: To verify the theoretical concepts through laboratory and simulation experiments CO 5: To design and analyze of electronic circuits
	II	**III**	Paper III	Digital Electronics	At the end of the course students will be able to: CO 1: Have a thorough understanding of the fundamental concepts and techniques used in digital electronics. CO 2: To understand and examine the structure of various number systems and its application in

					digital design. CO 3: To understand, analyze and design various combinational and sequential circuits. CO 4: To identify basic requirements for a design application and propose a cost effective solution CO 5: To identify and prevent various hazards and timing problems in a digital design and to develop skill to build, and troubleshoot digital circuits
		IV	Paper IV	Analog& Digital IC applications	At the end of the course students will be able to CO 1: To develop the ability to understand, analyze and design digital &analog electronic circuits using discrete components. CO 2: Observe the amplitude and frequency responses of common amplification circuits. CO 3: Design, construct, and take measurement of various analog circuits to compare experimental results in the laboratory with theoretical analysis.
	III	**V**	Paper V	Basic Communication Techniques	At the end of the course students will be able to CO 1: Understand and apply the knowledge of statistical theory of communication and explain the conventional digital communication system. CO 2:Apply the knowledge of signals and system and evaluate the performance of digital communication system in the presence of noise. CO 3: Apply the knowledge of digital electronics and describe the error control codes like block code, cyclic code.

					CO 4: Analyze the digital communication system with spread spectrum modulation. CO 5: Design as well as conduct experiments, analyze and interpret the results to provide valid conclusions for digital modulators and demodulator using hardware components and communication systems. .
			Paper VI	8085 Microprocessor	At the end of the course students will be able to CO 1: Demonstrate computer architecture concepts related to design of modern processors, CO 2: Create the memory interfacing techniques and I/O interfacing techniques with 8085. CO 3: Analyze the performance of commercially available computers. CO 4: To develop logic for assembly language programming.

		VI	Paper VII	8051 Microcontroller	At the end of the course students will be able to CO 1: Gain comprehensive knowledge about architecture and addressing modes of 8051 CO 2: Write assembly language program in 8051 for various embedded system applications CO 3:Implement the middle level programming and interfacing concepts in 8051 CO 4:Use external interfaces in various embedded system projects CO 5: Design and implement programs on 8051, ARM, PIC and describe the architecture and instruction set of ARM microcontroller
			Paper VIII A1	Electronic Instrumentation	At the end of the course students will be able to CO 1 :Recognize the evolution and history of units and standards in Measurements. CO 2: Identify the various parameters that are measurable in electronic instrumentation. CO 3: Employ appropriate instruments to measure given sets of parameters. CO 4 : Practice the construction of testing and measuring set up for electronic systems CO 5 :To have a deep understanding about instrumentation concepts which can be applied to Control systems and to relate the usage of various instrumentation standards. .

			Paper VIII A2	Radar Systems & Antennas	At the end of the course students will be able to CO 1: Know the fundamentals of Antennas & concept of radio wave propagation. and Illustrate the different types of arrays and their radiation patterns. CO 2: Analyze a complete radio system, from the Transmitter to the Receiver end with reference to antenna and Quantify the fields radiated by various types of antennas CO 3: Analyze antenna measurements to assess antenna's performance CO 4. Demonstrate an understanding of the importance of Matched Filter Receivers in Radars. CO 5. Familiarize with the different types of Radar Displays and their application in real time scenario
			Paper VIII A3	Electronics Project	

Department of Chemistry
Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Chemistry	**I**	**I**	**I**	Inorganic & Physical Chemistry	At the end of the course, the student will be able to; CO 1. Understand the basic concepts of p-block elements CO 2. Explain the difference between solid, liquid and gases in terms of intermolecular interactions CO 3. Apply the concepts of gas equations, pH and electrolytes while studying other chemistry course
		II	**II**	Organic & General Chemistry	At the end of the course, the student will be able to; CO 1: Understand and explain the differential behaviour of organic compounds based on fundamental concepts learnt. CO 2. Formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved. CO 3:Learn and identify many organic reaction mechanisms including Free Radical Substitution, Electrophilic Addition and Electrophilic Aromatic Substitution. CO 4: Correlate and describe the stereo chemical properties of organic compounds and reactions.

Department of Botany

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Botany	**I**	**I**	**I**	Fundamentals of Microbes and Non-vascular Plants	On successful completion of the course, the students will be able to**:** CO1: Explain origin of life on the earth. CO2: Illustrate diversity among the viruses and prokaryotic organisms and can categorizethem. CO3: Classify fungi, lichens, algaeand bryophytes based on theirstructure, reproduction andlife cycles. CO4: Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi. CO5: Recall and explain theevolutionary trends among amphibians of plant kingdom fortheir shift to land habitat. CO6: Evaluate the ecological and economic value of microbes, thallophytes and bryophytes. CO7: Demonstrate the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears.
		II	**II**	Basics of Vascular plants and Phyto-geography	On successful completion of this course, the students will be

					able to: CO1: Classify and compare Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and life cycles. CO2: Justify evolutionary trends in tracheophytes to adapt for land habitat. CO3: Explain the process of fossilization and compare the characteristics of extinct and extant plants. CO4: Critically understand various taxonomical aids for identification of Angiosperms. Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families. CO6: Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare. CO7: Locate different phytogeographical regions of the world and India and can analyze their floristic wealth.

Department of Zoology

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Zoology	**I**	**I**	**I**	Animal Diversity - Nonchordates	At the end of the course, the student will be able to: **CO1** Describe general taxonomic rules on animal classification **CO2** Classify Protozoa to Coelenterata with taxonomic keys **CO3** Classify Phylum Platy hemninthes to Annelida phylum using examples from parasitic adaptation and vermin composting **CO4** Describe Phylum Arthropoda to Mollusca using examples and importance of insects and Molluscans **CO5** Describe Echinodermata to Hemi chordata with suitable examples and larval stages in relation to the phylogeny.
		II	**II**	Animal Diversity - chordates	At the end of the course, the student will be able to; **CO1** Describe general taxonomic rules on animal classification of chordates **CO2** Classify Protochordata to Mammalia with taxonomic keys **CO3** Understand Mammals with specific structural adaptaions

					CO4 Understand the significance of dentition and evolutionary significance **CO5** Understand the origin and evolutionary relationship of different phyla from Prochordata to mammalia.

Department of Nutrition and Dietetics

Course Outcomes 2020-21

Subject	Year	Semseter	Course	Title of the course	Course outcomes
Nutrition	**I**	**I**	**Paper I**	**Principles of Nutrition**	**At the end of the course,the student will be able to;** **CO 1:** Learns basic concepts of nutrition **CO 2:** Identifies various vitamins and minerals **CO 3:** Knows energy value of foods and energy requirements **CO 4:** Understands water balance **CO 5:** Relates nutrients inter-relationship
		II	**Paper II**	**Food Science and Chemistry**	**At the end of the course,the student will be able to;** **CO 1:** Understands cereals, millets and sugars **CO 2:** Learns about pulses, legumes, nuts and oil seeds **CO 3:** Relates nutritional aspects of vegetables and fruits **CO 4:** Knows various meat and milk products **CO 5:** Identifies spices and condiments
	II	**III**	**Paper III**	**General Nutrition**	**At the end of the course,the student will be able to;** **CO 1:** Learns energy metabolism and meal planning **CO 2:** Knows adulthood, pregnancy and lactation nutritional requirements **CO 3:** Understands nutritional problems of infancy and preschool children

					CO 4: Relates the problems of school going children and adolescents **CO 5:** Identifies changes in old age.
		IV	**Paper IV**	**Diet Therapy**	**At the end of the course,the student will be able to;** **CO 1:** Knows the roles of dietitian and understands therapeutic diets. **CO 2:** Relates nutrition in metabolic disorders and CVDs **CO 3:** Relates nutrition in GID and liver disorders **CO 4:** Understands nutrition in renal disorders **CO 5:** Identifies stress conditions and relates nutrition
	III	**V**	**Paper V**	**Food processing and preservation**	**At the end of the course,the student will be able to;** **CO 1:** Understands basic concepts of food processing and preservation **CO 2:** Learns processing of pulses **CO 3:** Knows various foods from meat, fish, fruits and vegetables **CO 4:** Relates fermented foods and its nutrition **CO 5:** Identifies RTE, RTU foods
				Food analysis and Instrumentation(add on course)	**At the end of the course,the student will be able to;** **CO 1:** Learns basic concepts of food chemistry **CO 2:** Learns general principles of sampling techniques **CO 3:** Understands carbohydrates

					CO 4: Understands total protein **CO 5:** Relates the principles and applications of instrumentation in food analysis
			Paper VI	**Food Service Management**	**At the end of the course,the student will be able to;** **CO 1:** Knows the basic concepts of food service management in various organizations. **CO 2**: Understands types and techniques of food services **CO 3:** Learns the equipment and their purchase used in food service system **CO 4:** Relates principles and tools in managing the food service system **CO 5:** Manages spaces in kitchen and storage unit**s**
			Common Project		
		VI	**Paper VII**	**Food Quality and Safety**	**At the end of the course,the student will be able to;** **CO 1:** Learns basic concept of food quality control and safety **CO 2:** Understands quality assurance and specifications **CO 3:** Identifies types of food additives **CO 4:** Relates food laws in food quality and safety **CO 5:** Learns food packaging materials and their properties
			Paper VIII A1	**Nutritional Biochemistry**	**At the end of the course,the student will be able to;** **CO 1:** Learns metabolism of carbohydrates

					CO 2: Learns metabolism of fats and fatty acids **CO 3:** Learns metabolism of proteins and amino acids **CO 4:** Learns metabolism of nucleic acids **CO 5:** Understands enzymes and their mechanism of actions
			Paper VIII A2	**Food Microbiology**	**At the end of the course,the student will be able to;** **CO 1:** Learns about common microbes present in foods **CO 2:** Understands water and food borne diseases **CO 3:** Identifies common microbes in food spoilage **CO 4:** Relates food preservation techniques in food spoilage **CO 5:** Understands food adulteration
			Paper VIII A3	**Community Nutrition**	**At the end of the course,the student will be able to;** **CO 1:** Learns the methods of nutritional assessment **CO 2:** Understands basics of nutrition education **CO 3:** Knows about intervention programme in nutrition **CO 4:** Relates the role of agencies in combating malnutrition **CO 5:** Relates effects of food fads and fallacies on nutrition
			Paper VIII B1	**Research Methodology**	**At the end of the course,the student will be able to;** **CO 1:** Learns objectives and motivation in research **CO 2:** Understands research problem **CO 3:** Learns different experimental designs in research **CO 4:** Relates data processing and statistical analysis to research methodology

					CO 5: Learns how to write report of research
			Paper VIII B2	**Nutrition in Fitness**	**At the end of the course,the student will be able to;** **CO 1:** Learns basic concepts of fitness and training **CO 2:** Understands diets and exercises in fitness **CO 3:** Relates the effect of exercises on body metabolism **CO 4:** Learns water and electrolyte balance in the body **CO 5:** Formulates dietary guidelines for health and fitness
			Paper VIII B3	**Community Nutrition**	**At the end of the course,the student will be able to;** **CO 1:** Learns the methods of nutritional assessment **CO 2:** Understands basics of nutrition education **CO 3:** Knows about intervention programme in nutrition **CO 4:** Relates the role of agencies in combating malnutrition **CO 5:** Relates effects of food fads and fallacies on nutrition

Department of Bio-Chemistry

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Bio-Chemitsry	**I**	**I**	Paper I	Biomolecules	At the end of the course, the student will be able to: CO 1: This course enable the students to get knowledge and understanding of the molecular machinery of living cells; CO2. Acquire knowledge and understanding of the principles that govern the structures of macromolecules and their participation in molecular recognition; CO3:This course will enable the student to understand the importance of biomolecules in living organisms and effects of their alterations in diseases occurring in plants, animals and humans. CO 4:The practical will give the expertise to the student for analysis of any biological or non-biological sample for identification of its chemical composition. CO5: Students will understand the methods of determination of amino acid and nucleotide sequence of proteins and DNA respectively.
		II	Paper II	Analytical techniques	At the end of the course, the student will be able to;

					CO1. The student will learn the various analytical techniques and their applications in separation and isolation of cells and tissues for studying their functional abnormalities CO2. The practicals will provide the expertise to the student for quantification of electrolytes and other metal ions, hormones and identification of bacteria. CO3. The expertise gained by the student in this course can be useful in food industries, pharma industries, clinical and microbiological labs. CO4:Students will be exposed to various chromatographic techniques and their applications in isolation of different biological molecules. CO5: In addition to understanding the applications of centrifugation and chromatography in biological investigations, they will gain insight into purification of proteins by affinity chromatography using epitope tags such as histidine tag, GST tag, Flag tag etc.

Department of Microbiology

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Microbiology	I	I	I	Introductiontomicrobiology andmicrobial Diversity	At the end of the course, the student will be able to: CO 1: Understand terminologyrelatingtothemicrobiology and gain knowledge about development of branch microbiology and its place in living world . CO 2:Students will know the structure of and properties of prokaryotic microorganisms CO 3: Students will know the structure of and properties of eukaryotic microorganisms CO 4: Gain knowledge on cultivation of bacteria on media CO5: Demonstrate appropriate br3laboratory skill and techniques related to isolation, staining,identificationandcontrolofmicroorganisms.
		II	II	Enzymology and Microbial metabolism	At the end of the course, the student will be able to; CO 1: To understand the basics of Enzymes and their classification and functions.Biomolecularsynthesisandcontrolwillhelpinfurtherstudy. CO 2: Explain the basic nutritional types of microorganisms. CO 3:Provide practical knowledge knowledge on growth and measurement of growth. CO 4:Understand the concept of metabolism in bacteria.

Department of Home Science
Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Home Science	**I**	**I**	**HSC 101**	**Basic Nutrition**	At the end of the course students will be able to CO1**:** Understanding the concepts of nutrition and food and its relation to health. CO2: Acquiring knowledge about macro and micro nutrients and their functions. CO3: Knowing the consequences of deficiency of taking nutrients. CO4: Understanding importance of non-nutrients in human nutrition
			HSC 102	**Fundamentals of Textiles**	At the end of the course students will be able to CO1: The importance of the textiles in human life and also the textile terminology and types of fibres. CO2: Identification of different fibres like plant fibres, animal fibres based on properties. CO3: Gains knowledge on manufacturing of different textile fibers. CO4: Understands the method of Spinning and process of yarn construction. CO5: Judge the differences between simple and novelty yarns.
			HSC 103	**General Psychology**	At the end of the course students will be able to CO1: Develop a working knowledge of Psychological contents, areas and applications of psychology. CO2: Develop a base in cognitive psychology with the help of relevant examples of everyday life. CO3: Comprehend and analyse situations in real life appropriately and enable others to exercise in the same way. CO4: Appreciate and apply various theories of learning in the practical world.

		II	**HSC 201**	**Introduction to Food Science**	At the end of the course students will be able to CO1**:** Planning and calculating nutritive values for the foods and recipes. CO2: Identification of signs and symptoms of different nutrient disorders. CO3: Practical knowledge on availability of seasonal and other foods by doing market survey. CO4: Listing out the common foods and their names in scientific and local languages.
			HSC 202	**Principles of Garment construction**	At the end of the course students will be able to CO1: Remember and explain in a systematic way the importance of the textiles in human life and also the textile terminology and types of fibres. CO2: Understands identification of different fibres like plant fibres, animal fibres based on properties. CO3: Gains knowledge on manufacturing of different textile fibers. CO4: Understands the method of Spinning and process of yarn construction. CO5: Identification of different textile fibres using microscopic, burning tests.
			HSC 203	**Housing for Better Living**	At the end of the course students will be able to CO1:Understand importance and functions of a house CO2: Gain knowledge on house plans for different income groups CO3:UnderstandBuilding Materials and Finishes.

Department of Computer Science (B.ScComp.Sc)

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Computer science	**I**	**I**	Paper I	Computer Fundamentals &Photoshop	At the end of the course, the student will be able to: CO1: To explore basic knowledge on computers and Photoshop's beauty from the practical to thepainterly artistic and to understand how Photoshop will help you create your own successfulimages.
		II	Paper II	Programming In C	At the end of the course, the student will be able to; CO 1:The students can be able to develop programs using the basic elements like controlstatements, Arrays and Strings. CO 2:The students can solve the memory access problems by using pointers CO 3:The students will become familiar with the fundamentals and acquire programming skillsin the Java language.
	II	**III**	Paper III	Object Oriented Programming Using Java	At the end of the course students will be able to: CO 1:The student can be able to develop java programs using oop concepts such as inheritanceand polymorphism. CO 2:The student can develop efficient Java applets and applications using OOP concept CO 3:The students will become familiar with the fundamentals and acquire programming skillsin the Java language.
		IV	Paper IV	Data Structures	At the end of the course students will be able to CO 1: The student should be able to choose an appropriate data structure for a particular problem. CO 2: The students can sort the data using different sorting techniques.
	III	**V**	Paper V	Database Management	At the end of the course students will be able to

				System	CO1: The student should be able to Master working successfully on the design and development of adatabase application system.
			Paper VI	Software Engineering	At the end of the course students will be able to CO 1: The student should be able to develop and document a minor project by using theprinciples of Object Oriented Software Engineering.
			Paper VII	Operating Systems	The students should be able to Simulate an Operating System by including features like CO 1: Process Management CO 2: Memory Managemment CO 3: I/O interface Management CO 4: File System Management.
		VI	Paper VIII A1	Distributed Systems	At the end of the course students will be able to CO 1 : Understand the design principles in distributed systems and the architectures for distributed systems CO 2: Apply various distributed algorithms related to clock synchronization, concurrency control, deadlock detection, load balancing, voting etc. CO 3: Analyze fault tolerance and recovery in distributed systems and algorithms for the same CO 4:Implement different distributed algorithms over current distributed platforms
			Paper VIII A2	Cloud Computing	At the end of the course students will be able to CO 1: Explain the core concepts of the cloud computing paradigm: how and why this paradigm shift came about, the characteristics, advantages and challenges brought about by the various models and services in cloud computing CO 2:Apply the fundamental concepts in datacenters to understand the tradeoffs in power, efficiency and cost CO 3: Identify resource management fundamentals, i.e. resource abstraction, sharing and sandboxing and outline their role in managing infrastructure in cloud computing.

			Paper VIII A3	Project	At the end of the course students will be able to: CO 1: Develop ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution. CO2: To prepare students to undertake careers involving problem solving using computer science and technologies CO 3: Develop ability to pursue advanced studies and research in computer science CO 4: To produce entrepreneurs who can innovate and develop software product.

Department of Computer Science (B.Com Cs)

Course Outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Computer Science	**I**	**I**	Paper I	Information Technology	At the end of the course students will be able to: CO 1:Describe the fundamental hardware components that make up a computer's hardware and the role of each of these components. CO 2:Understand the difference between an operating system and an application program, and what each is used for in a computer. CO 3:Use technology ethically, safely, securely, and legally. CO 4:Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems.
		II	Paper II	E-Commerce And Web Designing	At the end of the course students will be able to: CO 1:Understand the foundations and importance of E-commerce. CO 2:Define Internet trading relationships including Business to Consumer, Business- to-Business, Intra-organizational. CO 3:Describe the infrastructure for E-commerce. CO 4:Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
	II	**III**	Paper III	PROGRAMMING with C	At the end of the course students will be able to: CO 1:Understanding a functional hierarchical code organization. CO 2:Understanding a concept of object thinking within the framework of functional model.

					CO 3:Write program on a computer, edit, compile, debug, correct, recompile and run it.
			Paper IV	DATABASE MANAGEMENT SYSTEM	At the end of the course students will be able to: CO 1: The role of a database management system in an organization. CO 2:Understand basic database concepts, including the structure and operation of the relational data model. CO 3:Understand and successfully apply logical database design principles, including E- Understand R diagrams and database normalization. CO 4:Understand Functional Dependency and Functional Decomposition.
	III	**V**	Paper V	Sales Force Customer Relationship Management	At the end of the course students will be able to: CO 1: The Salesforce platform dominates the world market, with over 150,000companies powering their business growth with Salesforce. CO 2:From small businesses to tech giants like Google and Facebook, firms are using their suite of services and products to solve business problems.
			Paper VI	DIGITAL MARKETING	At the end of the course students will be able to: CO 1:Build a strong foundation in accounting, management and business subjects. CO 2:Seek variety of career options in accounting, management and business related fields. CO 3:Equip with skills and knowledge to excel in their future careers. CO 4:Develop critical thinking skills in students.
		VI		PROJECT	At the end of the course students will be able to: CO 1:To make the students efficient in office

					automation with computers and computer software applications. CO 2: To facilitate the students to join professional courses. CO 3:To develop subject skill within various discipline of commerce, business, accounting, economics, finance, auditing and marketing with soft skills in Tally. CO 4:Helps to acquire entrepreneurship.

Department of Computer Science (BBA)

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Computer science	**I**	**I**	Paper I	It for managers	At the end of the course, the student will be able to: CO1:Students are capable of doing documentation with MS Office word. CO 2:The students can perform analysis and calculations exactly with pictorial representation using MS Excel. CO 3:The students feel comfortable in designing slides creatively and present a power point presentation of particular topic using MS PowerPoint.
		II	Paper II	Business analysis using Ms-Excel	At the end of the course, the student will be able to; CO 1:Microsoft Excel tool which helps the user to perform complex and large calculations,data processing on the huge amount of data, performing data analysis, betterrepresentation of data, etc. CO 2:Advanced Excel functions allow business organizations to increase their productivity and performance by easily sorting and filtering relevant information and using it forbetter decision making.
	II	**III**	Paper III	Fundamentals of Web Technologies	At the end of the course students will be able to: CO 1:Students are able to develop an ability to design and implement static and dynamicwebsite.. CO 2:The student should able to Master working successfully on the design and developmentof different web applications.
		IV	Paper IV	Advanced web technologies	At the end of the course students will be able to CO 1: The student should able to Master working

					successfully on the design of Web applications with visual elements. And also student get an idea on PHP which is used as server side scripting language. CO 2: Learn web-based application is any application that uses a website as the interface or front-end. CO 3:Users can easily access the application from any computer connected to the Internet using a standard browser.
	III	**V**	Paper V	Photoshop and Internet Applications	At the end of the course students will be able to CO1:To explore basic knowledge on computers and Photoshop's beauty from thepractical to the painterly artistic and to understand how Photoshop will help you create your own successful images.. CO 2: They can grow individually by having their own business by creating flex withPhotoshop. CO 3: Photoshop remains as a mail stone for the further steps in to animations. CO 4: Learn web Applications deliver many business benefits compared to office basedsolutions. CO5: Students are able to learn Communication with anyone in the world.
		VI	Paper VI	Computerized accounting through Tally	At the end of the course students will be able to CO 1: Tally provides simple-to-use accounting features that enables to record businesstransactions easily and quickly. CO 2: One can record transactions necessary for your business by creating and maintainingmasters, vouchers, and generating reports. CO 3: It also allows you to perform and manage all of the major accounting operations in your business.

Department of Computer Science- Web Technology and Multimedia

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
BVOC(WTM)	**I**	**I**		C programming	At the end of the course, the student will be able to: CO 1: Design an algorithmic solution for a given problem. CO 2: Write a maintainable C program for a given algorithm. CO 3: Trace the given C program manually. CO 4: Write C program for simple applications of real life using structures and files.
				Fundamentals of Web Technology	At the end of the course, the student will be able to: CO 1: Basic HTML tags. CO 2: They can able to develop a web application using java script. CO 3: Students will gain the skills and project-based experience needed for creating web application.
				Fundamentals of Multimedia and Basic Photoshop	At the end of the course, the student will be able to: CO 1: The major functions of Photoshop CS4. CO 2: Work and manipulate images, CO 3: Resize and Crop images. CO 4: Work with basic selections. CO 5: Create, edit, delete and manage Layers. Paint, Retouch photoS, Correct Color.
				Ms office - I	At the end of the course, the student will be able to; CO 1: Create documents using MS Word CO 2: Develop Style sheets and Lookup tables. CO 3: Create slides and animation effect for presentation

Subject	Year	Semester	Course	Title of the course	Course outcomes
		II		Digital Painting in photoshop	At the end of the course, the student will be able to; CO 1: Using drawing tablet effectively CO 2: Demonstrate how to utilize the tools within Photoshop CO 3: Identify the steps required to create a concept project CO 4: Apply an understanding of Composition, Perspective, and the Anatomy of Light CO 5: Define the characteristics of Perspective CO 6: Apply artistic direction from their instructor and peers to their own work CO 7: Objectively articulate design decisions to peers and instructor during critique CO 8: Create concept pieces that show ease and familiarity with the use of the software and hardware. CO 9: Select supporting examples of work as inspiration to design work. CO 10: Critically analyze their own creative work and the work of others.
				PhpProgramming -I	At the end of the course, the student will be able to; CO 1: Understand what is PHP Programming CO 2: The Syntax and rules for writing basic CO 3: PHP Programming CO 4: Arrays and Objects in PHP
				Css And Javascript	At the end of the course, the student will be able to; CO 1: Know different Style sheets CO 2: How to apply styles to the web pages without disturbing its content CO 3: Use of Dynamic HTML in detail
				Ms office - II	At the end of the course, the student will be able to;

Subject	Year	Semester	Course	Title of the course	Course outcomes
					CO 1: Create slides and animation effect for presentation CO 2: Create database and storing data in database CO 3: Select different tables basing on the query CO 4: Create outlook and basic usage of MS Outlook
	II	**III**		Python	At the end of the course students will be able to: CO 1: Python is a versatile language that can be used for a wide range of applications, including web development, data analysis, artificial intelligence, machine learning, scientific computing, automation, and more. Learning Python opens up opportunities in various fields. CO 2: Python is known for its simple and easy-to-read syntax, making it a great language for beginners to start with. Its readability and simplicity make it easier to learn compared to other programming languages. CO 3: Python can be used to build web applications using frameworks like Django and Flask. Learning Python can help you enter the field of web development and create dynamic websites and web applications.
				BG Art concepts	At the end of the course students will be able to: CO 1: Create Old Concrete, Flooring, and Carpeting. CO 4: Create Sand Texturing, Brick Texturing, Floor Texturing CO 5: Create Different types of Wall Textures in New Interior Models
				3Ds max modelling	At the end of the course students will be able to: CO 1: Creating 3D Models like Interiors & Exteriors CO 2: car models, Indoor and Outdoor Locations CO 3: Creating props' and different Objects which we

Subject	Year	Semester	Course	Title of the course	Course outcomes
					are using in daily life.
				3Ds max texturing and lightings	At the end of the course students will be able to: CO 1: Using the material editor & the material CO 2: explorer, creating & applying standard materials, adding material details with maps CO 3: creating compound materials and material modifiers, unwrapping UVs & mapping texture.
				Phpprogramming II	At the end of the course students will be able to: CO 1: String functions CO 2: Printf, scanf functions CO 3: Different date and time functions CO 4; Trimming functions CO 5: How to connect our PHP Programming to the database
				Webphotoshop	At the end of the course students will be able to: CO 1: Creating different Website Layout Designing, Social Website Layout Design CO 2: Official Website Layout Design, creating buttons , menus, shadings image framing.
				Mini Project	At the end of the course students will be able to CO 1: Students will go to the companies for doing their Internships. With this they will learn the real application of their work (softwares) and they will do one real project. CO 2: They will learn how an industry crack a project. They will also learn new Plug Ins which the industries are using.
				Maya Modelling	At the end of the course students will be able to CO 1: Character modeling design, visual art principles, tools and extension through the pipeline.

Subject	Year	Semester	Course	Title of the course	Course outcomes
		IV			CO 2: The project starts with verbal representations by completing characterization profile followed by 2D drawings of the character design. CO 3: Students will apply the professional practices taught in class to digitally sculpt their own characters in 3D using MAYA. Each student is responsible for their own model while working within a group of 3-4 peers. CO 4: Together each member will design and create a character that fits one unified art direction as agreed on by its members (the group).
				Maya Texturing and lighting	At the end of the course students will be able to CO 1: Exploring Types of Materials ,Understanding Materials Attributes CO 2: Using the Hyper shade Window Texturing, Types of Textures, UV Texturing Mapping, Shading and Texturing, Material Assigning, Exploring the Types of Lighting CO 3: Creating Lighting Effects, Understanding Shadows, Understanding Mental Ray, Exploring Mental Ray Attributes CO 4: Exploring Types of Cameras, Working with Cameras, Understanding Cameras Attribute, Mental Ray Rendering, Rendering a Scene CO 5: Working with Rendering Layers, Exploring Render Nodes.
				SQL server	At the end of the course students will be able to CO 1: What is database CO 2: Use of database

Subject	Year	Semester	Course	Title of the course	Course outcomes
					CO 3: Creation of database CO 4: Knowledge on Queries CO 5: Query solving CO 6: Transaction Recovery
		V		Adobe Flash	At the end of the course students will be able to CO 1: Simple animation CO 2: Application of Adobe Flash CO 3: Usage of Flash CO 4: Combining Flash animations into single project CO 5: Adding sound to their animation
				Photography	At the end of the course students will be able to CO 1:What is Photography CO 2: Carrier opportunities CO 3: Camera Features CO 4: DSLR camera CO 5: Identifying the object focal length CO 6: Techniques in Photography
				Lab training project	At the end of the course students will be able to CO 1: This helps students in applying the knowledge which they have learned in a project. CO 2: So they will know the combing of works into a project. CO 3: They will model the project by using clay techniques.
				Programming through java	At the end of the course students will be able to CO 1: What is Java Programming CO 2: Why it is used CO 3: Programming techniques in Java

Subject	Year	Semester	Course	Title of the course	Course outcomes
					CO 4: Security in Java by Access Specifiers. CO 5: Exception Handling CO 6: Dividing the program into simpler parts Thread Concept
				Z brush modelling	At the end of the course students will be able to CO 1: Z Brush is the 3D industry's standard digital sculpting application. Use customizable brushes to shape, texture, and paint virtual clay, while getting instant feedback. Work with the same tools used by film studios, game developers and artists the world over. CO 2: Dynamesh is Z Brush's digital clay. It rebuilds the topology of your model as you sculpt, creating a smooth, even surface for you to add fine details. Z Brush bridges the gap between 2D and 3D. CO 3: In this students will create different models using clay tools etc.
	III			Z brush Texturing	At the end of the course students will be able to CO 1: In Z Brush Texturing we give texturing to a model done in Z Brush and give detailing to the objects using alpha and stroke CO 2: We can give colors CO 3: By using dynamesh students learn to create how to soften the object CO 4: By using different brushes according to the model students will learn to give the texture detail in more realistic way. CO 5: They also learn how to import the model done in maya into the Z Brush to give particular detailing and textures to the model.
				Film Making	At the end of the course students will be able to

Subject	Year	Semester	Course	Title of the course	Course outcomes
					CO 1: The techniques in Film Making, CO 2: How to select a story CO 3: How to write the story script CO 4: How to do shooting CO 5: How to act in a film
				Java servlets	At the end of the course students will be able to CO 1: What is Servlets CO 2: Usage of Servlets CO 3: Combining Java Program to a database with servlets. CO 4: Creating forms in java and storing the data in database.
		VI		After effects video editing	At the end of the course students will be able to CO 1: The basics of creating projects, compositions, and layers,Importing footage, including video, audio, and still images CO 2: Creating special effects using the Effects menu,Creating animation for shapes, objects, and layers CO 3: Adding and animating text ,Drawing shapes ,Animating shapes,Creating and using masks and track mattes
				After effects audio editing	At the end of the course students will be able to CO 1: Working in 3D Using the puppet tools to create animated characters and effects CO 2: Extracting and removing objects from layers, Exporting to video

B.VOC-Clinical and Aqua Lab Technology

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
CALT	**I**	**I**	Paper I	Biology of Fish	At the end of the course, the student will be able to: CO1 Explain the General characters of Fishes and Classification CO2 Understand the anatomy of bony fish CO3 Understand Fish nutrition CO4 Describe fish scales CO5 Understand general characters of crab, Lobester
		II	Paper II	Seed Production Technology	At the end of the course, the student will be able to; CO1 Learn the importance of Fish seed CO2 Understand the fish resources CO3 Describe Fish hatchery CO4 Understand Fish breeding CO5 Explain cryopreservation
	II	**III**	Paper III	Aquatic Ecology & Toxicology	At the end of the course students will be able to: CO 1: Understand pond ecosystem CO 2: Explain planktonic organisms CO 3: Estimation of water paramers like DO, Ammonia CO 4: Estimation of Water parameters like Carbonates, bicarbonates CO 5; Understand BOD treatment
		IV	Paper IV	Aquaculture Management	At the end of the course students will be able to CO 1: Understand Site eclection criteria CO 2: learn about pond mangement CO 3: Learn crustacean and molluscan Fisheries CO 4: Water quality management CO5: Understand health management

	III	**V**	Paper V	Ornamental Fish Keeping	At the end of the course students will be able to CO 1 Understand potential scope of ornamental industry CO 2 Understand Aquarium fish CO 3 learn food and feeding of fish CO 4 learn transport of fish CO 5 maintenance of Aquarium
			Paper VI	Post Harvest Technology	At the end of the course students will be able to CO 1: Understand preservation and processing of fish CO 2: Know the biproducts of fish CO 3: Understand marketing of fish CO 4: Learn about Fishery Economics CO 5: Understand Export and quality control
		VI	Paper VII	Human Anatomy	At the end of the course students will be able to CO 1 Knew about anatomical terms of Human body CO 2 Understand Digestive, Repiratory systems CO 3 Understand Excretory and circulatory system CO 4 Understand Nervous suytem CO 5 UnderstanfUrinogenitalsysem
			Paper VIII A1	Physiology	At the end of the course students will be able to CO 1. Understand Digestive and Respiration CO 2: Understand Circulatory and Excretion CO 3: Understand Repruction CO 4: Learn about Endocrine glands CO 5: Understand Nervous coordination and muscle contraction.
			Paper IX	Clinical Laboratory Practices	At the end of the course students will be able to CO 1: Learn about Laboratory services CO 2:Learn about CO 3: Understand infrastructure and sample collection CO 4: Learn about all equipment in the lab CO 5:

			Paper 10	pathology -I	At the end of the course students will be able to CO 1: Knew about introduction to animal cell CO 2: Understand reception of specimen, tissue embedding, preparation tissue blocks CO 3: Processing and cleaning of tissue blocks CO 4: Equipment for pathological slides CO 5: Procedures of section cutting and microslide preparation
			Paper 11	Microbiology I	At the end of the course students will be able to CO 1: Know the general bacteriology CO 2: Understand culture media preparation CO 3: Learn systemic bacteriology CO 4: Understand bacterial infections and diagnosis CO 5: Procedures of CNS infections
			Paper 12	Biochemistry I	At the end of the course students will be able to CO 1: Understand introduction to chemical balance CO 2: Understand concepts of molecular weight CO 3: Principles of photometry and spectrometry CO 4: Learn the chemistry of carbohydrates CO 5: Learn the chemistry of Proteins and fats
			Paper 13	Haematology	At the end of the course students will be able to CO 1: Know the blood composition CO 2: Estimation of WBC and RBC CO 3: Understand blood transfusion CO 4: problems of blood transfusion like AIDS, CO 5: Understand stains used in Heamatology
			Paper 14	Immunology II	At the end of the course students will be able to CO 1: Understand Immunity, Types of Immunity CO 2: Learn about anibody and antigens CO 3: Understand Antigen and antibody reaction CO 4: Learn about immune system and immune response CO 5: infection, modes of transmission
			Paper 15	Biochemistry II	At the end of the course students will be able to

					CO 1: Enzyme definition, classification CO 2: Determination of SGOP, SGPT, CO 3: Chemistry of Proteins CO 4: Chemistry of Lipid, triglycerides CO 5: Inorgonic ions
			Paper 16	Pathology II	At the end of the course students will be able to CO 1: Knew about types of staining agents CO 2: Demonstration of pigments, CO 3: Demonstration collegen CO 4: Preparation of cell blocks CO 5: Museum techniques
			Paper 17	Immunology II	At the end of the course students will be able to CO 1: Hemorrhagic disorders- Mechanism of coagulation CO 2:,Understand Hyper sensitivity CO 3: Learn Immunodeficiency diseases CO 4: Learn Autoimmunity CO 5: Understand Basics of Tumor Immunology
			Paper 18	Microbiology II	At the end of the course students will be able to CO 1: Understand general properties of Virology CO 2: Knew DNA viruses CO 3: Understand fungi and diseases CO 4: learn parasites and their preventice methods CO 5: learn cestoda parasites

Department of social science

History Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
History	**I**	**I**	Paper I	**Indian history and culture. (from earliest times to 647A.D)**	At the end of the course, the student will be able to: CO1 It creates awareness about one of the Ancient civilization of the world. CO2 Compare and contrast stages of progress from Vedic culture to Jainism, Buddhism and Mauryans. CO3 I can make to identify transition from territorial States to emergence of Empires – Gain knowledge about South Indian culture. CO4 Impacts knowledge about classical age - Development of Science, Technology - New culture through Arabs. CO5 Facilitate to study administration from basic administrative unit and can compare with present day.
		II	Paper II	Indian history and culture. (from 647A.D TO 1526A.D)	At the end of the course, the student will be able to; CO 1: Students will demonstrate an understanding of the major historical events and figures in Indian history from 647 to 1526, including the political, social, and economic changes CO 2: Students will analyze the rise and fall of various

					dynasties and factors contributing to their success or decline. CO 3: Students will explore the cultural and religious developments of the period, it's impact on society. CO 4: Students will examine the evolution of Indian art, architecture, and literature during this period. CO 5: Students will discuss the legacy of this period in shaping the cultural and historical landscape of India, including the influence on modern Indian society and culture.
	II	**III**	Paper III	Indian history and culture. (from 1526A.Dto 1761A.D)	At the end of the course students will be able to: Co1: Students will gain a comprehensive understanding of the establishment, expansion, and consolidation of the Mughal Empire in India. CO2: Students will learn about the administrative and political structures of the Mughal Empire. Co3: Students will examine the economic policies of the Mughal Empire. Co4: Students will study the military strategies of the Mughal rulers, significant battles, and conflicts with regional powers and European colonial entities. Co5: Students will develop critical thinking skills by analyzing primary sources, historical texts.
		IV	Paper IV	Indian history and culture. (from 1757A.Dto 1964A.D)	At the end of the course students will be able to CO 1: Students will be able to describe the key events, policies, and consequences of British colonial rule in India from 1757 to Indian Independence 1947. CO 2: Students will know the significant figures in the Indian independence struggle. Students will be able to

					explain the socio-economic changes in Indian society due to colonial policies. CO 3: Students will analyze historical events and trends using primary and secondary sources, developing critical thinking and interpretive skills. CO 4: Students will compare and contrast different perspectives on colonialism, nationalism, and the struggle for independence. CO 5: Students will present well-organized, clear, and coherent written and oral presentations on topics related to Indian history and culture from 1757 to 1964.
	III	**V**	Paper V	History of Modern World. (from 1453 to 1848 A.D)	At the end of the course students will be able to **CO1**. Comprehensive understanding of British policies. **CO2**Awareness of key reform movements. **CO3**. Knowledge of Nationalist movements. **CO4.** Insight into Gandhian and revolutionary movements. **CO5.** Understanding of communalism and partition
			Paper VI	History and culture of Andhra Pradesh.(from satavahanas to 1857A.D)	At the end of the course students will be able to: 1: Students will recognize the influence of various dynasties, such as the Satavahanas, Ikshvakus, Pallavas, Eastern Chalukyas, Kakatiyas, Vijayanagara, QutbShahis, and the British. CO 2:Develop an appreciation for the rich cultural heritage of Andhra Pradesh, including its art, architecture, literature, and music. CO 3:Analyse the social and economic structures of the time, including caste systems, trade, agriculture, and the impact of colonialism. CO 4:Study the changes in land tenure systems and the emergence of new social cla

					CO 5:Explore the religious and philosophical movements in the region, including the spread of Buddhism, Jainism, Shaivism, and Vaishnavism.
		VI	Paper VII	History of Modern World. (from 1848 to 1945 A.D)	At the end of the course students will be able to **CO1**. Comprehensive understanding of British policies. **CO2**Awareness of key reform movements. **CO3**. Knowledge of Nationalist movements. **CO4.** Insight into Gandhian and revolutionary movements. **CO5.** Understanding of communalism and partition
			Paper VIII A1	Cultural Tourism in Andhra Pradesh	At the end of the course students will be able to CO 1. Students will demonstrate an in-depth understanding of the cultural heritage, traditions, and historical significance of Andhra Pradesh. CO2. Students will develop an appreciation for cultural diversity and demonstrate cultural sensitivity towards different communities in Andhra Pradesh. CO 3.Students will acquire practical skills in planning and managing cultural tourism activities and events in Andhra Pradesh. CO 4. Students will be able to effectively communicate cultural narratives and interpret the cultural significance of sites and traditions to diverse audiences, including tourists and local communities.
			Paper VIII A2	Popular Movements in Andhra Desa.(1848 to 1956 A.D)	At the end of the course students will be able to CO 1: Students will be able to identify and explain the historical contexts and causes of various popular movements in Andhra Desa from 1857 to 2014.

					CO 2: Students will gain an in-depth understanding of significant movements, and they will be able to analyze their origins, development, and impact on the region. CO 3: Students will evaluate the social, political, and economic changes brought about by these movements. CO 4: Students will be able to compare and contrast different movements, understanding how they intersected with broader national and global trends. CO 4: Students will conduct research on specific movements or events, utilizing primary and secondary sources. CO 5: Students will connect historical movements to contemporary issues.
			Paper VIII A3	Contemporary History of Andhra Pradesh.(1956 to 2014)	At the end of the course students will be able to: CO 1: Students will understand the historical context and the political movements leading to the formation of Andhra Pradesh in 1956 CO 2. Students will be able to dentify and describe the key political leaders and their roles in shaping the state's political landscape. CO 3: Students will understand the rise of regional political parties, including the Telugu Desam Party, and their impact on state politics. CO 4: Students will explore the cultural and literary movements in Andhra Pradesh, including contributions to Telugu literature, cinema, and arts. CO 5: Students will be able to analyse the political, economic, and social implications of the bifurcation for both Andhra Pradesh and Telangana.

Department of social science

Political Science Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
	I	**I**	Paper I	**Basic concepts of political Science**	At the end of the course, the student will be able to: **CO1**: Analysing what is Politics and explaining the approaches to the Study of Political Science – Normative, Historical and Empirical Traditions **CO 2**: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. **CO 3**: Explaining the Concept of State Sovereignty: Monistic and Pluralistic Theories, Analysing the changing concept of Nation and Nationality . **CO 4**: Classification of Rights of Indian Citizen and Citizenship and Understanding basic concepts of Liberty, Equality, and Justice.
		II	Paper II	**Political Institutions (concepts ,Theories and Institutions)**	At the end of the course, the student will be able to; **CO 1:** Students will get aware of the different political systems that are working throughout the world. **CO 2:**Students get interest in knowing about the working of constitution and constitution law in various countries. **CO 3:**They will understand the inter link between the organs of the government. **CO 4:** They will get knowledge about democracy, and the differences between direct and indirect democracy

	II	**III**	Paper III	**Indian Constitution**	At the end of the course students will be able to: **CO1**: Introducing the Indian Constitution with a focus on the role of the Constituent Assembly and examining the essence of the the Preamble. **CO 2**: Examining the Fundamental Rights and Duties of Indian citizens with a study of the significance and status of Directive Principles. **CO3:** Assessing the nature of Indian Federalism with focus on Union-State Relations. **CO 4**: Critically analyzing the important institutions of the Indian Union: the Executive: President; Prime Minister, Council of Minister s ; The legislature: RajyaSabha, LokSabha, Speaker, The Judiciary: Supreme Court composition and functions- Judicial Activism **CO5**: Looking at the Constitutional Amendment Procedure with focus on the main recommendations of the Constitutional Review and Basics Structure of Constitution
		IV	Paper IV	**Indian Political process**	At the end of the course students will be able to **CO1 :**Teach and Evolution of Approach to Study the political process in India they Examine Modernization and Marxian Approach **CO 2**: Evaluating the role of various forces on Indian politics: Communalism and Secularism and Religion at peasants **CO 3:** Critically evaluating the Indian Party system – its development and looking at the ideology of

					dominant national parties and Regional Parties. Evaluating the Electoral Process in India and Assess how elections affect the behavior of public officials **CO 4**: Investigating the Andhra , Telangana agitations and Naxalists movement **CO 5:**Analyzing the new Government programmes working like swatch Bharath ,Make in India and Made in India and National Skill development corporation They Provide awareness in this programmes
	III	**V**	Paper V	**Indian and Western political Thought**	At the end of the course students will be able to **CO 1:**- Providing an insight into the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato; Roman Political Thought: its contributions with special emphasis on the emergence of Roman law. **CO2:**- Examining the features of Ancient l Political Thought. They Evaluating the Manu Varnadharma and Dandaneeti ; political thought of Reformation; and Machiavelli. **CO3:-** Critically examining Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent; and Rousseau's views on Freedom and Democracy; Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government. **CO 4:**- Analysing the nationalist thought of Raja Rammohun Roy and Assessing the nationalist thought of . Discussing the roots of communalism- Savarkar and Hindu Nationalism and Jinnah and the two nation

					theory **CO 5:** - Discussing the nationalism of Gandhi, M. N. Roy, Narendra Deva and . Analysing the Gandhian. .
			Paper VI	Principles Of Public Administration	At the end of the course students will be able to **CO 1:**- Explaining the nature, scope and evolution of Public Administration; Private and Public Administration; **CO 2-:** Discussing the ,Classical approach ,Scientific Management approach ,Human Relations approach , Ecological approach and Decision Making approach to Pub. Adm. **CO 3:**- Analysing the Administrative Processes: decision making; communication and control; leadership; co-ordination and Line and Staff agencies **CO 4:**- Examining the Institutions of Personnel Administration in India and Evolution of Motivational Theories
		VI	Paper VII	Local Self Government In Andhra Pradesh	At the end of the course students will be able to **CO1 :** Examining the Institutions of Local Self Government in India, Local self government implies the transference of power to rule to the lowest rungs of political order .It is form of democratic decentralisation where the participation of even the grass root level of the society is ensure in the process of Administration **CO2:**They understand the knowledge on evolution of local self Government and recommendations of Balwantrai ,Ashok Mehta committees and They clear idea on 73rd and 74th constitutional amendments .

					CO3:They analysis the structure and functions of Rural and urban governments and They applying knowledge on role of leadership and Emerging challenges **CO** 4:They aware the strategies of Rural development and role of people participation in Rural development .
			Paper VIII A1	International Relations	At the end of the course students will be able to **CO**1:Students get the understanding about the different nations and relations between them. C**O**2:Knowing about the post – world war scenario, makes them to realize importance of peace and adversities of conflict. **CO3:**A strong hold on international relations will give them success in competitive exams like UGC-NET, SLET, and Civil Services etc. **CO4:**Choosing international relations as the career will give them employment in NGOs and other international organizations. **CO5:** As a broad in its scope, it has a many chance in taking up research and taking up research in international relations will have bright career.
			Paper VIII A2	India's Foreign Policy	At the end of the course students will be able to **CO1** :Students get interest in knowing the relations of various countries with India, which makes them to follow contemporary events happening in foreign policy. **CO2**:Brings them awareness on trends in India's foreign policy since the time of independence to till today. **CO3;**It creates interest to know the social culture and political culture of various nations all over C**O4**;It is helpful while writing competitive exams like UGC NET, SLET and Civil Services.

					C05: As because of its vast area of study gives more opportunities for students while choosing foreign policy as their area of research.
			Paper VIII A3	Contemporary Global Issues	At the end of the course students will be able to: **CO**1 :students get affinity with international community and show their responsibility towards the problems of the world. **CO2:**They try to find various solutions for the post globalization problems. **CO 3:** Helpful for students while writing competitive exams like UGC NET, SLET, APPSC, UPSC, RRB, SSC etc. **CO4** :Encourages the students to choose area for research purposes . And Leads them to understand the importance of reading international problems in Political Science.

Department of Social Sciences

Economics Course outcomes- 2020-2021

Subject	Year	Semester	Course	Title of the course	Course outcomes
Economics	**I**	**I**	**Paper I**	**Micro Economics Analysis**	At the end of the course students will be able to: CO1.Students will be able to learn concepts of demand and elasticity of supply. CO2.students will be able to known market and kinds of markets CO3. Students will be able to known different markets like perfect competition and imperfect competition. CO4. Students will be able to Understoodconcepts of distribution and kinds of distribution.
		II	**Paper II**	Macro economics Analysis	At the end of the course students will be able to; CO1. studentswill be able to learn classical and practical keynsian theories of employment. CO2. studentswill be able to known GNP and percapita income. CO3. Students will be able to learn causes of inflation and measures of trade cycle. CO4. Students will be able to Understood functions of banking.

Department of Social sciences

Psychology Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Psychology	**I**	**I**	Paper I	General psychology	At the end of the course, the student will be able to: CO 1: Understanding and application of psychological principles, theories and methods of different psychological areas (like learning, memory, etc.) to understand the complexity of human behaviour. CO 2: Knowledge of the fundamental physiological functional mechanism behind the Nervous system in the human body. CO 3: It also correlates to the understanding of historical context of different studies and researches.
		II	Paper II	General psychology	At the end of the course, the student will be able to; CO 1: Extensive knowledge about different theories and principles of Cognition and Behaviour concerning the areas of Motivation, Emotion, Intelligence, Thinking, and Personality etc. CO 2: Understand the measures involved in different aspects of human behaviour. CO 3: Develop ability to relate the psychological concepts to everyday life events.
	II	**III**	Paper III	Social psychology	At the end of the course students will be able to: CO 1: Develop insight and the contribution of social psychologists to the understanding of human society. CO 2: Evaluate effective strategies in socialization, group processes (both inter and intra-group) and helping behavior.

					CO 3: Ability to register the progression of theories in major areas in Social Psychology. CO 4: Interpret attitude formation and various methods to be used to change the attitude.
		IV	Paper IV	Social psychology	At the end of the course students will be able to CO 1: Recognize major theories of social psychology related to cognitive and behavioral phenomenon. CO 2: Describe the scientific methods used to obtain knowledge about social behavior. CO 3: Analyze the complexity of action in social contexts by combining factors related to the person and the situation. CO 4: Describe situational factors that constrain human action. CO 5: Describe social factors that affect personal motivations. CO 6:Analyze contemporary events using social psychological theories or concepts. CO 7: Examine the effects of implicit and explicit prejudice on cognition and behavior.
	III	**V**	Paper V	Child psychology	At the end of the course students will be able to CO 1: Review, appraisal and applications of theory of child psychology in various settings. CO 2: Ability to construct and interpret a historical overview of Child psychology. CO 3: This course introduces the students to the biological foundations, various developmental stages and theories from prenatal to childhood stages.
			Paper VI	Psychopathology	At the end of the course students will be able to CO 1: Identify different types of anxiety and mood disorders, their clinical picture and management. CO 2:Analyze Impact of socio-occupational & personal

					functioning. CO 3: Formulate the case with the help of psychological testing. CO 4: Plan Therapeutic programs for management based on goals of therapy.
		VI	Paper VII	Child and adolescent psychology	At the end of the course students will be able to CO 1: State the meaning of psychology; CO 2: Explain the relevance of the study of psychology of childhood and adolescent for a teacher-trainee CO 3: Outline the methods you will select when studying children's different problems CO 4: Define the following basic concepts in child development: maturation, learning, development, perception, and motivation CO 5: Outline the biological and environmental bases of human development CO 6: Describe the trend of the changes that occur in the following facets of human development
			Paper VIII	Psychopathology	At the end of the course students will be able to CO 1: The students will understand signs and symptoms of psychopathology. CO 2: They will be able to assess the symptoms, nature, causes and dysfunctions associated with these disorders CO 3: They will be able to understand the intervention programs with regard to the goals of therapy. CO 4: Develop an understanding of etiology of various mental health symptoms and illnesses. CO 5: Develop familiarity with the usual clinical course of each specific mental illness.

Department of Social Science

Social Work Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
Social work	**I**	**I**	Paper I	Social work-profession, philosophy and basic social science concepts	At the end of the course, the student will be able to: CO 1: The students will acquire the knowledge on social work methods CO 2:The students will enhance knowledge on social case work CO 3: The students Will get knowledge on social group work CO 4: The students will understand the Basic concepts of community organization.
		II	Paper II	Social work-profession, philosophy and basic social science concepts	At the end of the course, the student will be able to; CO 1: Get knowledge on social reform movements in India. CO 2: Understand the origin and growth of social work in USA, UK and India. Auquiné knowledge on social work values, ethics, principles and approach. CO 4: Develop knowledge on social practice in various settings.
	II	**III**	Paper III	Social work methods I	At the end of the course students will be able to: CO 1: The students will understand the concept of social work. CO 2: The students will acquire the knowledge on social work methods. CO 3: The students enhance knowledge on social case work

					CO 4: The students will get knowledge on social group work. CO 5: The students will understand the basic concepts of community organisation.
		IV	Paper IV	Social work methods II	At the end of the course students will be able to CO 1: The students will understand the concept of social work CO 2: The students will acquire the knowledge on social work methods. CO 3: The students enhance knowledge on social case work. CO 4: The students will get knowledge on social group work. CO 5: The students will understand the basic concepts of community organisation
	III	**V**	Paper V	Fields of social work I	At the end of the course students will be able to CO 1: To understand the concept of social work CO 2:To acquire the knowledge on social work methods CO 3: To enhance knowledge on integrated approach of social work To get knowledge on foublem solving and termination CO 4:To obtain knowledge on importance and types of fivid work in social work

			Paper VI	Non-governmental organisations	At the end of the course students will be able to CO 1: Understand the concept of Non-Governmental Organisations. CO 2:Acquire the knowledge on formation of r non-governmental organisation. CO 3: Enhance knowledge on management of non-governmental organisation Understand the financial management of non-governmental organisation. CO 4:Enhance the knowledge on financial management.
			Paper VII	Fields of social work II	At the end of the course students will be able to CO 1: To understand the concept of social work. CO 2: To acquire the knowledge on social work methods. CO 3: To enhance knowledge on integrated approach of social work To get knowledge on problem solving and termination. CO 4: To obtain knowledge on importance and types of vivid work in social work
			Paper VIII A1	Social problems and social welfare in India	CO 1: Students at the successful composition of the course will be able to CO 2: Develop knowledge about and analyze the origin, and cames of social problems Understand the effects of social problems on individuals, groups and society CO 3: acquire knowledge about social reforms, social policy and social legislation and critically understand their role in controlling the social problems

					CO 4: Aware on the Preventive and remedial services of Govt. and Non- Governmental in dealing with social Problems
			Paper VIII A2	Social work and HIV/AID	By the end of the paper, students will be able to: CO 1; Understand HIV /AIDs CO 2: Describe Key Epidemiological Trends: Articulate the key epidemiological trends of HIV/AIDS on a global and local scale. CO 3: Identify Social Determinants: Identify and explain how various social determinants impact the spread and treatment of HIV/AIDS. CO 4: Explain the Role of Social Workers: Clearly explain the different roles and responsibilities of social workers in the context of HIV/AIDS. CO 5: Design Intervention Programs: Design a basic intervention program that addresses the needs of individuals living with HIV/AIDS.
			Paper VIII A3	Corporate social responsibility	At the end of the course the student will be able to: CO 1: Understand Social responsibility CO 2: Develop a holistic understanding of the concept CSR. CO 3: Gain adequate knowledge on CSR Policy Understand global perspectives on CSR practices. CO 4: Know various CSR practices in India and Andhra Pradesh through case study

Department of Commerce

Course outcomes- 2019-20

Subject	Year	Semester	Course	Title of the course	Course outcomes
COMMERCE	**I**	**I**	**B.Com General and computer**	**Financial Accounting I**	CO1: To understanding of basic commerce concepts and principles of Commerce, including trade, business market structures and the role of Commerce in the economy. CO2: Apply basic accounting principles and practises, including journal entities, pledges and trial balance. CO3: Identify the basic principles of marketing, including market research, product development, pricing strategies, promotional distribution channels. CO4:. Explain the basic economic principles that affect commerce, including supply and demand, pricing and economic cycles.
				Business statistics	CO1: Understanding of statistical concepts: Students will comprehend key statistical terms, formulas, and techniques.

					CO2: Data analysis skills: Students will learn to collect, organize, and analyze data to extract insights. CO3: Descriptive statistics: Students will understand how to summarize and describe tendency and variability. CO4: Inferential statistics: Students will learn to make conclusions about populations based on sample data. CO5: Regression analysis: Students will learn to model relationships between variables.
			B.Com General and computer	**Business organization**	CO1: Ability to understand the concept of Business Organization along with the basic laws and norms of Business Organization. CO2: The ability to understand the terminologies associated with the field of Business Organization

					along with their relevance and to identify the appropriate types and functioning of Business Organization for solving different problems. CO3: The application of Business Organization principles to solve business and industry related problems and to understand the concept of Sole Proprietorship, Partnership and Joint Stock Company etc.
		I	**B.Com Finance**	**Business finance I**	CO1. Understanding of financial concepts: Students will comprehend key financial terms, theories, and principles. CO2. Financial statement analysis: Students will learn to analyze and interpret financial statements (Balance Sheet, Income Statement, Cash Flow Statement).

					CO3. Time value of money: Students will understand concepts like present value, future value, and net present value. CO4. Capital budgeting: Students will learn to evaluate investment opportunities using techniques like NPV, IRR, and payback period. CO5. Cost of capital: Students will understand how to calculate and apply the cost of capital.
		II	**B.COM (COMP&GEN)**	**Financial Accounting II**	CO1: To understanding of basic commerce concepts and principles of Commerce, including trade, business market structures and the role of Commerce in the economy. CO2:TO know about conzinementdepresiatation,jointventure,and rectification of errors. CO3: Identify the basic principles of marketing, including market research, product development, pricing strategies, promotional distribution channels. CO4:Explain the basic economic principles that affect commerce, including supply and demand,

					pricing and economic cycles. CO5: Gain an awareness of the global business environment and its impact on local commerce
		II	**B.COM (COMP&GEN)**	**Business statics II**	CO1. Confidence intervals: Students will learn to estimate population parameters with confidence intervals. CO2. Data visualization: Students will learn to effectively communicate insights using charts, graphs, and other visualizations. CO3. Business decision-making: Students will apply statistical techniques to real-world business problems. CO4. Critical thinking: Students will develop critical thinking skills to evaluate information and make informed decisions. CO5. Communication skills: Students will learn to

					present statistical findings effectively.
		II	**B.COM (COMP&GEN)**	**Principles of management**	CO1. Understanding of management concepts: Students will comprehend key management terms, theories, and principles. CO2. Management functions: Students will learn about planning, organizing, leading, and controlling. CO3: Decision-making skills: Students will develop critical thinking and problem-solving skills. CO4:Leadership skills: Students will understand leadership styles, motivations, and effective leadership practices. CO5:Organizationalbehavior: Students will learn about individual and group dynamics, culture, and

					diversity. CO5.
		II		**Business finance II**	CO1:Capital structure: Students will learn to optimize capital structure and make financing decisions. CO2:Dividend policy: Students will understand the impact of dividend policy on shareholder value. CO3:Risk management: Students will learn to identify and manage financial risks using techniques like hedging and diversification. CO4:Financial markets and instruments: Students will understand the functioning of financial markets and instruments like stocks, bonds, and derivatives. CO5:Financial planning and decision-making: Students will apply financial concepts to real-

					world business problems.
		III	**B.Com general and computer**	**Banking &financial services**	CO1:Discuss the impact of government policy and regulations on the banking industry. CO2:Evaluate the performance of the banking industry. CO3:Discuss bank lending policies and procedures. CO4:To elucidate the broad functions of banks CO5: To understand the working of the Reserve Bank of India CO6: To grasp the conduct of monetary policy and its effect on the interest rate, credit availability, prices, and the inflation rate
		III	**B.Com general**	**Income tax**	CO1: Understand the basic principles underlying the Income Tax Act Compute the taxable income of an assesse CO2: know the residential status of assesse and incomes exempted from tax CO3: To familiar with the computation of income from salary, To familiar with the computation of income from house property, income from salary,

					income from house property
		III	**B.Com Finance**	**Financial management I**	CO1. Understanding of financial concepts: Students will comprehend key financial terms, theories, and principles. CO2: Students will learn to analyze and interpret financial statements. CO3. Investment decisions: Students will understand how to evaluate investment opportunities. CO4. Capital budgeting: Students will learn to evaluate and select capital projects. CO5. Cost of capital: Students will understand how to calculate and apply the cost of capital.
		III	**B.Com General and computer**	**E-commerce**	CO1. Understanding of e-commerce concepts: Students will comprehend key e-commerce terms,

					theories, and principles. CO2. E-commerce business models: Students will learn about various e-commerce business models (B2B, B2C, C2C, etc.). CO3. Payment and security systems: Students will understand payment processing and security measures. CO4. Supply chain and logistics management: Students will learn to manage supply chains and logistics in an e-commerce environment.
		III	**B.Com General and computer**	**Corporate accounting**	CO1. Corporate finance: Students will learn about corporate finance, including capital raising, restructuring, and advisory services. CO2. Mergers and acquisitions: Students will understand the process of mergers and acquisitions, including deal structuring and negotiation.

					CO3. IPOs and equity financing: Students will learn about initial public offerings (IPOs) and equity financing options. CO4. Debt financing and restructuring: Students will understand debt financing options and restructuring strategies.
		IV	**B.COM(COMPUTERS & GENERALS)**	**Business environment**	CO1. Understanding of business environment concepts: Students will comprehend key terms, theories, and principles. CO2. External environment analysis: Students will learn to analyze the external environment (PESTLE analysis). CO3. Internal environment analysis: Students will understand how to analyze the internal environment (SWOT analysis). CO4. Industry analysis: Students will learn to

					analyze industries and competitors.
		IV	**B.Com General and computer**	**Merchant banking**	CO1 -Discuss the impact of government policy and regulations on the banking industry. CO2 -Evaluate the performance of the banking industry. CO3 -Discuss bank lending policies and procedures. CO4 -To elucidate the broad functions of banks CO5 - To understand the working of the Reserve Bank of India CO6 - To grasp the conduct of monetary policy and its effect on the interest rate, credit availability, prices, and the inflation rate
		IV	**B.Com General and computer**	**Accounting for service organizations**	CO1. Financial statement preparation: Students will learn to prepare financial statements for service organisations. CO2. Revenue recognition: Students will

					understand revenue recognition principles and apply them to service organisations. CO3. Expense accounting: Students will learn to account for various expenses, including salaries, rent, and utilities. CO4. Asset accounting: Students will understand how to account for assets, including depreciation and amortization.
		IV	**B.Com General**	**Fundamentals of GST**	CO1. GST registration and compliance: Students will learn about GST registration, returns, and compliance requirements. CO2. Taxable supplies and exemptions: Students will understand what constitutes a taxable supply and exemptions. CO3. Input tax credits and refunds: Students will learn about claiming input tax credits and refunds.

					CO4. GST calculations and invoicing: Students will understand how to calculate GST and prepare GST-compliant invoices. CO5. GST classifications and rates: Students will learn about different GST classifications and rates.
		IV	**B.Com Finance**	**Financial management II**	CO1. Capital structure: Students will learn to optimize capital structure and make financing decisions. CO2. Dividend policy: Students will understand the impact of dividend policy on shareholder value. CO3. Risk management: Students will learn to identify and manage financial risks. CO4. Financial planning and forecasting: Students will learn to create financial plans and forecasts.

					CO5. Financial performance evaluation: Students will understand how to evaluate financial performance.
		V	**B.Com general and computer**	**Business Law**	CO1: Understand the legal environment of business and laws of business, Highlight the security aspects in the present cyber-crime scenario. CO2: Apply basic legal knowledge to business transactions, Understand the various provisions of Company Law. CO3: Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legal issues and Integrate concept of business law with foreign trade. CO4:Equip the students about the legitimate rights and obligations under The Sale of Goods Act. enable with skills to initiate entrepreneurial ventures as LLP.
		V	**B.Com General and computer**	**Cost accounting**	CO1. Cost accounting systems: Students will understand different cost accounting systems, including job costing, process costing, and activity-based costing.

					CO2. Cost estimation and prediction: Students will learn to estimate and predict costs using various techniques. CO3. Cost-volume-profit analysis: Students will understand how to analyze the relationship between costs, volume, and profit. CO4. Break-even analysis: Students will learn to calculate the break-even point and understand its significance. CO5. Standard costing and variance analysis: Students will understand standard costing
		V	**B.Com General and computer**	**Auditing**	CO1: Understanding the meaning and necessity of audit in modern era, Comprehend the role of auditor in avoiding the corporate frauds. CO2: Identify the steps involved in performing audit process, Determine the appropriate audit

					report for a given audit situation. CO3: Apply auditing practices to different types of business entities and plan an audit by considering concepts of evidence, risk and materiality
		V	**B.Com General and computer**	**Human resource management**	CO1. Recruitment and selection: Students will learn about effective recruitment and selection techniques. CO2. Training and development: Students will understand how to design and implement training programs. CO3. Performance management: Students will learn to develop and implement performance management systems. CO4. Compensation and benefits: Students will understand how to design and manage compensation and benefits packages.
		V	**B.Com General**	**Marketing management**	CO1. Market research and analysis: Students will learn to conduct market research and analyze data to inform marketing decisions.

					CO2. Segmentation, targeting, and positioning (STP): Students will understand how to segment markets, target audiences, and position products. CO3. Marketing mix (4Ps): Students will learn to develop and implement marketing strategies using the 4Ps(product, price, place, promotion).
		V	**B.Com General**	**International business**	CO1. International trade and investment: Students will learn about international trade theories, agreements, and practices. CO2. Global market entry strategies: Students will understand how to enter global markets, including export, import, and foreign direct investment. CO3. Cross-cultural management: Students will learn to manage across cultures, including communication, negotiation, and leadership. CO4. Global marketing and branding: Students will understand how to develop global marketing strategies and build global brands. CO5. International finance and accounting: Students will learn about international financial markets, instruments, and accounting practices.

		V	**B.Com General and computer**	**Fundamentals of international financial management**	CO1. Foreign exchange markets and rates: Students will learn about foreign exchange markets, exchange rates, and currency risk management. CO2. International financial instruments: Students will understand international financial instruments, including bonds, stocks, and derivatives. CO3. International investment and portfolio management: Students will learn about international investment strategies and portfolio management techniques. CO4. Multinational corporate finance: Students will understand multinational corporate finance, including capital budgeting, funding, and risk management.
		V	**B.Com Finance**	**Security analysis and portfolio management**	CO1. Security analysis techniques: Students will learn to analyze stocks, bonds, and other securities using fundamental and technical analysis. CO2. Portfolio management theories: Students will understand modern portfolio theory, asset allocation, and diversification.

					CO3. Risk management strategies: Students will learn to manage risk using hedging, diversification, and asset allocation. CO4. Asset pricing models: Students will understand asset pricing models, including CAPM and APT. CO5. Portfolio performance evaluation: Students will learn to evaluate portfolio performance using metrics such as return, risk, and Sharpe ratio.
		VI	**B.Com General and computer**	**Company law**	CO1. Knowledge of company formation procedures and documentation (articles of association, memorandum of association) CO2. Familiarity with company management structures (board of directors, shareholders, officers) CO3. Understanding of company finance and funding (shares, dividends, capital raising) CO4. Awareness of legal duties and responsibilities (directors' duties, shareholder rights)

					CO5. Knowledge of company insolvency and winding-up procedures
		VI	**B.Com General and computer**	**Management accounting**	CO1. Knowledge of budgeting and forecasting techniques (operational budgeting, financial budgeting) CO2. Familiarity with performance measurement and evaluation methods (KPIs, balanced scorecard) CO3. Ability to analyze and interpret financial statements for internal decision-making CO4. Understanding of variance analysis and cost control techniques CO5. Understanding of company finance and funding (shares, dividends, capital raising)
		VI	**B.Com General and computer**	**Business communication**	CO1. Ability to craft clear, concise, and persuasive written messages (emails, reports, proposals) CO2. Effective verbal communication skills (presentations, meetings, negotiations) CO3. Familiarity with nonverbal communication and interpersonal skills

					CO4. Knowledge of communication technologies and platforms (video conferencing, instant messaging) CO5. Understanding of cultural and diversity issues in communication
		VI	**B.Com General**	**Office management**	CO1. Ability to plan, organize, and coordinate office operations CO2. Knowledge of human resources management(recruitment, training, performance evaluation) CO3. Familiarity with financial management (budgeting, accounting, financial reporting) CO4. Understanding of records management and filing systems CO5. Ability to manage office technology and systems (software, hardware, networks)
		VI	**B.Com general and computer**	**Advertising and sales promotion**	CO1. Ability to analyze consumer behavior and target markets CO2. Knowledge of advertising media (print, broadcast, digital, outdoor)

					CO3. Familiarity with creative development (copywriting, art direction, design) CO4. Understanding of campaign planning and execution CO5. Ability to measure and evaluate advertising effectiveness
		VI	**B.Com general**	**Brand management**	CO1Knowledge of brand research and analysis methods CO2. Familiarity with brand identity design (logos, typography, color palettes) CO3.Understanding of brand communication and messaging CO4. Ability to manage brand consistency across touchpoints CO5.Knowledge of digital brand management (social media, website, e-commerce)
		VI	**B.Com Finance**	**Working capital management**	CO1. Ability to analyze and manage cash flow CO2. Knowledge of inventory management techniques (EOQ, JIT, ABC analysis)

					CO3. Familiarity with accounts receivable and payable management CO4. Understanding of short-term financing options (bank loans, factoring, commercial paper) CO5. Ability to calculate and manage working capital ratios (current ratio, quick ratio)
		VI	**B.Com Finance**	**security analysis and portfolio management-II**	CO1. Ability to evaluate and select securities (stocks, bonds, ETFs) CO2. Knowledge of portfolio performance measurement and evaluation CO3.Understanding of tax-efficient investing and asset location CO4. Familiarity with behavioral finance and investor psychology CO5. Ability to develop a comprehensive investment policy

Department of Management Studies

Course outcomes- 2020-2021

Subject	Year	Semester	Course	Title of the course	Course outcomes
BBA	**I**	**I**	Course 1	Managerial Economics	At the end of the course, the student will be able to: CO1: To state concept of economics and its relevance to business. CO2: Understand concepts of perfect competition and monopoly for fixation of prices. CO2: Understand the international business scenario and concepts of BOP. CO3: Learn to apply the concepts of cost and Break-even analysis and learn various theories on production. CO4: Comprehend the concept of Demand analysis for making important business decisions
			Course 2	Management Process:	At the end of the course, the student will be able to: CO1: To explain the basic concepts, principles and theories of Management CO2: To outline the fundamental activities of Managers CO3: To examine the broad functions of Management CO4: To comprehend the contemporary issues and challenges in the field of Management CO5: To understand various control techniques practiced at organizations

			Course 3	**Organization Behaviour**	At the end of the course, the student will be able to; **CO1:** Grab the basics of Business concepts and functions, forms of Business Organisation and functions of Management. **CO2:**Tounderstand different types of personality and learning styles.**CO3:** Develop an appreciation for the interdisciplinary nature of business, recognizing how various functions within an organization are interconnected and contribute to overall success. **CO4:** To analyse the contemporary trends in business. **CO5:** Foster critical thinking skills by analysing real-world business scenarios and applying theoretical frameworks to solve problems and make informed decisions.

		II	Course 4	Accounting for Managers	At the end of the course, the student will be able to; CO1: Acquire conceptual knowledge of basics of financial accounting. CO2: Understand the list of accounting standards and their application. CO3: Demonstrate hands on skills in preparing Financial Statements of a Business enterprise.
			Course 5	Business Environment.	At the end of the course, the student will be able to; CO1: Understand the concepts of Business, Industry and commerce. CO2: Analyze different forms of organization and its effect on Business Environment. CO3: Gain knowledge regarding different dimensions of Business Environment and its powerful effect on Business Entity. CO4: Develop understanding regarding overview of Government Policies in India post liberalization and its impact on Business Empires.
			Course 6	Quantitative Techniques for Managers	At the end of the course, the student will be able to; CO1: Provide the basic knowledge of quantitative methods and their application to commercial situation and for decision making in business.

	II	**III**	Course 7	Human Resources Management	At the end of the course, the student will be able to; CO1: Acquire knowledge on HRM, its environment, methods of selection, and Interview techniques. CO2: Impart the skills to manage various functions of Human Resource Management in order to provide the professional approach and outlook.
			Course 8	Operations Management	At the end of the course, the student will be able to; CO1: Understand the concepts, principles, problems, and practices of operations management. CO2: Identify and articulate how operations management contributes to the achievement of an organization's strategic objectives.
			Course 9	Event Management	At the end of the course students will be able to: Co1: obtain a sense of responsibility for the multi-disciplinary nature of event management Co2: Gain confidence and enjoyment from involvement in the dynamic industry of event management

		IV	Course 10	Financial Management	At the end of the course students will be able to: CO1: To gain basic knowledge of objectives of Financial Management and its functions. CO2: To gain familiarization with different financial decisions that impact any organization. CO3: To understand the capital budgeting process and risk analysis in capital budgeting and Understand decisions relating to dividend policies and their valuation CO4: Analyze working capital management to organization.
			Course 11	Marketing Management	At the end of the course students will be able to: CO1: To know the basic concepts on Marketing Environment CO2: Develop understanding about marketing management concepts and frameworks. CO3: Analyze an organization's marketing strategies,formulateand assess strategic, operational and tactical marketing decisions. CO4: Enhance business communication skills required to work effectively with a marketing team.
			Course 12	Fundamentals of Research Methodology	At the end of the course students will be able to: CO1: Apply the basic understanding of research methodology into the application of modern analytical tools and techniques for the purpose of management decision making. CO2: Identify the overall process of designing a research study from its inception to its report.
	III	**V**	Course 13	Business Law	At the end of the course students will be able to: CO1: To equip the student with fundamental concepts, principles relating to Contract Act that applies to

					business situations. CO2: To provide an overview on Negotiable Instruments Act and Partnership Act in India. CO3: To understand the regulatory framework of companies with reference to various provisions of Companies Act. CO3: To understand the essentials and execution of Sale contracts. CO4: To acquire knowledge on Right to Information Act and Consumer Protection Act.
			Course 14	E-Commerce	At the end of the course students will be able to: CO1: Understand the concept of electronic commerce, and how electronic commerce is affecting business enterprises, governments, consumers and people in general. CO2: Recognize the impact of Information and Communication technologies, in business operations.
			Course 15	Taxation-I	At the end of the course students will be able to: CO1: Understand the tax concepts and calculate Total Income & Tax Liability. CO2: Identify and explain the self-assessment system of tax administration.

			Course 16	Management Accounting	At the end of the course students will be able to: CO1: understand concepts of Management Accounting. CO2: Demonstrate Accounting compliance and planning in financial statements.
			Course 17	Financial Markets and Services	At the end of the course students will be able to: CO1: Gather knowledge of Issues in Primary & Secondary Markets & about the various Financial Services. CO2: Understand the difference between Traditional & Modern Financial Services.
			Course 18	BBA Practical's	At the end of the course students will be able to: CO1: Gain knowledge of business practices and processes. CO2: Analyze, evaluate and interpret data practically for the situations at the industry, business and individual levels .
		VI	Course 19	Business Strategy	At the end of the course students will be able to: **C**O1: Understand the basics of the how organizations are managed, with a special focus on the role played by a business firm's strategy. CO2: Assess or predict business performance based on the detailed analysis of a specific problem, case or company.

			Course 20	International Business	At the end of the course students will be able to: CO1: Understand International Business in a multicultural world. CO2: Acquire knowledge about the impact of various economic, legal, cultural, geographical, and political systems on international business.
			Course 21	Taxation –II	At the end of the course students will be able to: CO1: Understand the tax concepts and calculate Total Income & Tax Liability. CO2: Identify and explain the self-assessment system of tax administration.
			Course 22	Computerized Accounting through Tally.	At the end of the course students will be able to: CO1: Understand the accounting concept, tools and techniques influencing business organization. CO2: Use accounting and business terminology. CO3: Explain the objective of financial reporting and related key accounting assumptions and principles.
			Course 23	Advertising & Media Management	At the end of the course students will be able to: CO1: gain an understanding of advertising and sales promotion practices. CO2: Prepare promotional and advertising campaigns, for projects, assignments, and tests.

			Course 24	Logistics & Supply Chain Management.	At the end of the course students will be able to: CO1: Address LSCM problems in a holistic approach by taking into account general management concepts, human resources, environmental concerns, and quality, technological and economic aspects. CO2: Prepare students for career opportunities in logistics.
			Course 25	Self Study. Marketing of Banking Services	At the end of the course students will be able to: CO1: Get an outlook of how banking sector work on day-to-day basis. CO2: Understand the fundamentals of banking as applicable on individuals and organizations within the larger economic system.

Department of Hindi

Course outcomes- 2020-21

Subject	Year	Semester	Course	Title of the course	Course outcomes
	I	**I**	**I**	**Prose, Short stories, Grammar & Letter Writing**	**I Semester** के अंत में विद्यार्थी इन विषयों को सीखते है... Co 1: साहित्य के विविध प्रकियाओं का परिचय। Co 2: नैतिक मूल्यों पर आधारित कहानियो के द्वारा मूल्यों को बढाना। Co3: विविध व्याकारणांशों के द्वारा वाक्य निर्माण का परिचय। Co4: अनुवाद का परिचय। Co 5 : पत्र..लेखन की विधि के द्वारा विद्यार्थियों की ज्ञान वुद्धि।
		II	**II**	**Prose, Short stories, Grammar & Letter Writing**	**II Semester** के अंत में विद्यार्थी इन विषयों को सीखते है... Co 1: साहित्य के विविध प्रकियाओं के द्वार साहित्य का परिचय। Co 2: सामाजिक कहानियों के पढने से सामाजिक स्थिति..गतियों का परिवय। Co3: वाक्य शुद्धि के द्धारा वाक्यों का शुद्ध रूप जानना। Co4: कार्यालयीन शब्दावली का उपयोग करना। Co 5 : विविध नौकरियों केलिए अवेदन पत्र लिखना सीखते है।