

JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

**CRITERIA 2.6.1 PROGRAM OUTCOMES, PROGRAM SPECIFIC
OUTCOMES AND COURSE OUTCOMES**

Annexure XIII

B.COM	
Programme Outcome	The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Overall administration abilities in different industries, banking sectors, financing companies, insurance companies etc. The well trained man power pre requirements are provided by this program.
	Student will be competent to do higher education in the field of Commerce, Business studies, Social Work, Computer Application, Human Resource Management, Marketing etc..
Programme Specific Outcomes	Students will get the skills like effective communication, decision making, problem solving in day to day business activities. The students will be ready for employment in functional areas like Accounts Executive, Insurance Advisors, Sales Executives, Financial consultant, Auditor, Company Secretary Teacher, Stock agents etc...
Course	Outcomes
Financial Accounting	Practices helps in developing accounting skills and securing accounting jobs
Corporate Accounting	Practices on raising and repaying capital for companies, preparing accounting statements and mergers, improves employability
	The course aims to enlighten the students on the accounting procedures with the provision of companies act.
Cost Accounting	Practices on ascertaining the cost of various elements of the cost of production, helps in improving the employability as well as entrepreneurship
Business Organization	The students would know about the various types of business organizations and their characteristics.
	The students receive basic idea of the capital market segments and stock exchanges.
Management Accounting	The students obtain insight into the tools and techniques used in analyzing the financial statements.

	The students acquires knowledge in the management accounting techniques and in business decision making
Taxation	Learns the importance of income tax and the law relating to the calculation of income from salaries and house property. Improves the employability.
	Familiarize the students with recent amendments in Income Tax
Advanced Business Statistics	Students will know the application of statistical tools for their research. The students gain the knowledge on correlation, regression, Chi-square, ANOVA and probability.
Financial service	Students understand various functions of banking like Modern Functions of Banking, Retail Banking, Merchant Banking, Leasing and factoring, Mutual funds and Venture Capital Funds
E-Commerce	Students understand the importance of computers in business applications and learn the fundamental aspects of hardware and software components
	Students equip basic skills needed for creating and managing spreadsheets and help them to understand the basic applications of internet and e-commerce
Entrepreneurship	Students learn the concept relating to entrepreneur, knowledge about the finance institution, project report incentives and subsidies.
	They acquire the skills required for writing business projects and know about various funding agencies and their requirements.
Business Law	Students understand different elements of contract, factors related to the performance of contract and different modes of discharge of contract.
	The students will get acquainted to the special contracts and will be able to explain the important provisions relating to them.
	Students acquire basic provisions regarding legal frame work governing the business world.
Auditing	Students understand the nature, purpose and scope of audit including the role of external audit and its regulatory and ethical framework.
	They learn the fundamental concepts of auditing.
Marketing	Students will be able to identify marketing components and fit them in the value chain along with various marketing strategies.

Indirect Taxation	Students obtain knowledge about different types of indirect taxes levied on the production and distribution of goods.
	Students understand how the services are taxed and the provisions related to the taxation mechanism of international trade.
Computer Applications	Students will acquire programming ability in C- Language.
	Students acquaint practical knowledge about creating and manipulating Data.
BBA	The students with BBA degree will be able to: Understand the importance of teamwork and group dynamics in achieving organizational goals and demonstrate ability to work effectively in teams.
	Acknowledges and understands the significance of cultural diversity adapt their interpersonal behaviors and styles accordingly.
	They acquire awareness of global diverse perspectives and understand the theory, operations, and challenges of global business.
	Students obtain the knowledge on human resource planning.
M. COM	
Quantitative Techniques for Business Decision	Students develop the abilities to apply the mathematical concepts to real life problems.
	Students develop arithmetic and numerical abilities.
Entrepreneurial Development	Students learn the basic Concepts and Classifications of Excisable goods under Excise Act
	Students develop knowledge on various sources of finance, entrepreneur and intra-preneur.
Business Economics	Students understand the use of economic theory to business decisions
	Understand the firms' equilibrium and cost functions.
	Gain the knowledge of commodity and factor pricing.
Research Methodology	Students learn Qualities of Researcher and Formation of Research Proposal
	They will know various types of research, Sample design and Sample techniques.
	Understand the procedure for data collection and applying statistics to solve problems.
Human Resource Management	Students learn the concept of traditional, strategic human resources and to know the emerging trends of Human resource management.
	Students gain the knowledge on human resource planning.

	Students gain the knowledge on recruitment and performance appraisal of the human resource.
Global supply Chain Management	Students learn about Measuring and Improving Performance of Supply Chain
	BA-ENGLISH
Programme Outcome	Students develop intellectual, personal and professional abilities through effective communicative skills, ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens
Programme Specific Outcomes	Students learn to develop and integrate the use of the four language skills. i.e. Reading, Listening, Speaking & Writing.
	They learn to use English effectively for study purpose across the curriculum.
	Students develop interest in and appreciation of literature.
	Learners Communicate effectively and appropriately in real life situations.
	They acquire the ability to comprehend the passage, Letter writing, Preparation of curriculum vitae.
Course	Outcomes
Communication skills	Students learn to frame correct sentences both in spoken and written forms.
	Learn to interact with others in English with apt body language.
	Learn the basic grammar: Introduction to Parts of Speech, Present Tense and Future Tense, Past tense, Articles, Prepositions.
	Students gain knowledge on fundamental principles of sentence types, sentence analysis, simple/compound/complex sentences, subject verb agreement etc..
History of English literature	Learners acquire English thought, culture and history reflected in the study of literature.
	Understand the cultural and political history through which the students can correlate the literature works.
	Students understand the changing environment in the history of English Literature
	MA ENGLISH
Programme Outcome	Students will be able to demonstrate mastery of the discipline by detailing the development of Literature.
	They will be able to engage in research that leads to a substantial original thesis in their course.
	Students perform all activities in an ethical manner.
	Students gain the knowledge of the literary past.
	Learn to appreciate the importance of major literary genres, subgenres and periods.

	Students develop and carry out research projects and inculcate research aptitude
	Students will be able to recognize and comprehend different varieties of English
Programme Specific Outcomes	Students acquire the knowledge of great literary traditions due to their strong influence on British and American literature.
	Students understand Shakespeare texts in the light of recent approaches.
	Enhance students' employability skills through Communicative Skills. They acquire Professional Communication Skills, Creative Writing, Advance Academic Writing and technical writing for Business.
Course	Outcomes
	Students gain teaching skills like delivering the lecture, presenting seminar, explaining the novels and characters in it and demonstrating the drama and plays.
	They will know the analysis process even in terminology, vocabulary origin, usage comparisons of classics to modern poetry, awareness of culture and civilization.
	Students develop the language skills like listening, speaking, reading and writing.
	They become eligible to pursue research and to take up a job.
	BA TELUGU
Programme Outcome	Students learn the basic grammar: Introduction to Parts of Speech, Present tense and Future tense, Past tense, Articles, Prepositions. They learn to read the texts in Telugu in correct manner It enable them to understand and appreciate the literature pieces
Programme Specific Outcomes	Enable the learners to learn the basic aspects of grammar to frame an error free sentences
	Familiarize the students with the concepts that evolved during new era.
	The students will be able to differentiate the methods of old and modern poetry thoughts and teaching various genres in Telugu Literature
	Understanding the traditional society and comparing with modern trends.
Course	Outcomes
Telugu Literature	Students acquire a sound comprehension of literary, social, cultural biographical and historical background of the greatest writings in Telugu literature.

	They trace out the history of Telugu language and various components of linguistic structures of the language.
Literary Criticism	Students learn the evolution of Indian literature in Telugu
	Students acquire the knowledge about the themes, writing styles, techniques
	Students gain literary exposure to the prominent works of great Indian authors
	The students will be induced to train them to be effective teachers with their own creativity and modes of teaching
	BA HINDI
Programme Outcome	Students learn the basics of communication in Hindi. They will be able to frame correct sentences both in spoken and written forms. This programme prepares the students to interact with others in Hindi with apt body language.
Programme Specific Outcomes	Students acquire the intelligence to analyze and criticize the literary text the interpretive ability to critically analyze and appreciate literary texts.
	Students understand the literary form of Epic and its features, types and conventions. They acquire the knowledge of various greatest Epics in literature and help them to analyze the role of Epic in Literature.
	Students improve the Language Efficiency Students will be inspired to protect traditional customs without influenced by modern attraction.
	Help them to face the unfavorable conditions bravely. Eligibility to pursue PG in Literature.
Course	Outcomes
	Students can work anywhere in India by knowing the language. Many other countries have Hindi as second language. So they can easily be employed in those countries also.
	They can become translators in many Central Government offices.
	BA Sanskrit
Programme Outcome	Students are able to frame correct sentences both in spoken and written forms. Students receive advanced knowledge of ancient Indian religion, literature, and history through the study of Sanskrit texts.
Programme Specific Outcomes	Students will gain knowledge of the major traditions of literatures written in Sanskrit.
	Translation of Sanskrit literature into Telugu and vice-versa.
	Students acquire ability to apply relevant theoretical perspectives to topics within the field of ancient Indian religion, literature and history.
Course	Outcomes

	<p>Students obtain Competence in academic writing and oral presentation skills.</p> <p>They can become translators in many Central Government offices.</p> <p>Sanskrit is recognized as “mother of all languages” throughout the greater portion of the world. So, this language can provide a bright career.</p>
	BA HISTORY
Programme Outcome	Learners understand the background of our religion, customs institutions, administration and so on.
	Students gain knowledge of the present existing social, political, religious and economic conditions of the people.
	They will be able to analyze the relationship between the past and the present is lively presented in the history.
	Develop practical skills helpful in the study and understanding of historical events.
	Students develop interests in the study of history and activities relating to history. The study of history helps to impart moral education. History enthuse the feeling of patriotism in the hearts of the students.
Programme Specific Outcomes	Students gain Sound Knowledge of different Historical Periods.
	Students will be able to compare and contrast different processes, modes of thought, and modes of expression from different historical time periods and in different geographic areas.
	Students will produce their own historical analysis of documents and develop the ability to think critically and historically when discussing the past.
	They will be able to recognize and articulate the diversity of human experience, including ethnicity, race, language, gender, as well as political, economic, social, and cultural structures over time and space.
	Students will achieve greater competence in world history and more successfully meet content and performance standards.
Course	Out Comes
	<p>Students will be able to apply, assess and debate the major historical schools of thought, methodology and types of sources that historians use to make original arguments.</p> <p>Students understand and analyze Mughal rule art, and architecture.</p> <p>Evaluate consolidation of English Power in India.</p> <p>Students will be able to formulate historical arguments and communicate those arguments in clear and persuasive words.</p>

	Students will be able to demonstrate their mastery of the knowledge and skills involved in historical practice by conceptualizing and executing a significant piece of original research.
	BA ECONOMICS
Programme Outcome	Students gain a well-founded education in Economics.
	Learn to apply the methods and theories of social sciences to contemporary issues.
	Students will be able to analyze human behavior, problems or situations from social science, cross-cultural and global perspectives.
	Evaluate how theories and models within the social sciences have been established and maintained through systems of power and oppression.
	Help the students to apply analytical skills to social phenomena in order to understand human behavior.
Programme Specific Outcomes	Students will be able to improve their economic vocabulary- the knowledge of the terms and concepts commonly used in discussions of economic issues.
	Demonstrate the ability to employ ‘the economic way of thinking’. Learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies.
	Formulate informed opinions on policy issues and recognize the validity of opposing viewpoints
	Understand the impact of government policies and will be able to assess the consequences of the policies on the parties involved.
Course Outcomes	
	Students understand the subject of Social Sciences with all its prominent branches.
	Students learn the basic methods and methodology used in Economics.
	Students obtain a broad understanding about the contributions made by the economists over the decades.
	Students obtain Research Techniques.
	BA Political Science
Programme Outcome	Students learn to Analyze what is Politics and explain the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. Students learn about Indian Constitution with a focus on the role of the Constituent Assembly and examining the essence of the Preamble. Students will Critically analyze the important institutions of the Indian Union: the Executive: President; Prime Minister, Council of Ministers; Governor, Chief Minister and Council of Ministers; The legislature: Rajya Sabha, Lok Sabha, Speaker, Committee System, State Legislature, The

	Judiciary: Supreme Court and the High Court's: composition and functions- Judicial Activism.
Programme Specific Outcomes	Students gain knowledge about political system of the nation. Students learn national and international political affairs. Students comprehend from competitive examination point of view.
	Understanding the government mechanism, its functions, duties and responsibilities.
	Learn to elect appropriate and efficient political leaders. Students obtain the knowledge of political law. They gain the knowledge of Constitution of India.
Course Outcomes	
	Acquiring the knowledge about Indian Constitution Getting awareness about one's rights and duties.
	Getting information about political parties and system of justice in India. Knowing about the problems and challenges in Indian politics.
	BSc MATHEMATICS
Programme Outcome	The Mathematics program promotes Mathematical skills and knowledge for their intrinsic beauty, effectiveness in developing profession in analytical reasoning, utility in modeling and solving real world problems.
	Students majoring in Mathematics attain proficiency in critical thinking, problem solving effective communication.
	Critical thinking provides analytical and logical thinking and the habit of drawing conclusions based on quantitative information problem solving is the ability to assess and interpret complex situations.
Programme Specific Outcomes	Students will understand the basic rules of logic including the role of axioms or assumptions.
	Appreciate the role of Mathematical proof in formal deductive reasoning.
	Students will be able to distinguish a coherent argument from a fallacious one, both in Mathematical reasoning and in everyday life.
Course Outcomes	
	Understand and be able to articulate the differences between inductive and deductive reasoning.
	Proficiently construct logical arguments and regions proofs. Formulate and solve abstract Mathematical problems.

	Recognize real world problems that are an enable to Mathematical analysis.
	Students apply Mathematical methodologies to real world problems Recognize connection between different branches of Mathematics. Students present Mathematics clearly and precisely.
	Appreciate the role of Mathematical proof to convey Mathematical knowledge. Make vague ideas precise by formulating then in Mathematical languages
	Understand the Concept of Differential Equations of first order and first degree Orthogonal Trajectories, Differential Equations of the first order; Understand the Concept of the Plane, The Line, Sphere, Cones, Cylinders and Conicoids.
	Understand the Concept of Groups, Sub groups,. Understand the Concept of Real Numbers, Sequences, Continuous Functions, Differentiation and Riemann Integration. Understand the Concept and mathematical literacy in vector spaces, vector differentiation and vector integration.
	Apply the previous Knowledge on Integration & Differentiation to understand –Beta & Gamma functions and analyze the basic concepts of Bessel’s equations, Hermite Polynomials, Laguerre Polynomials and Legendre’s equation.
	MSC MATHS
Programme Outcome	Understand the concept of Group theory - Sylow's theorem -Ring Theory - Homeomorphisms - Ideals and quotient Rings - Euclidean rings
	Apply the previous Knowledge on Continuity, continuous functions-continuity and connectedness. Discontinuities, Monotone functions, Mean value theorems, L’ Hospital’s rule. Derivatives of higher Order, Taylor’s theorem.
	Understand the concept of the two phase Method for artificial variables ; phase-I; Phase-II; Numerical examples of the two phase method, unbounded solution in the primal computational procedure for standard form I,II,III;
	Students gained the knowledge in abstract algebra, Number theory, advanced mathematical methods.
	To enable students to read and demonstrate an understanding of mathematical and/or statistical research literature.

	Students will be able to identify mathematical and computational methods in order to solve comprehensive problems.
Programme Specific Outcomes	Develop research level thinking in the field of pure and applied Mathematics.
	Develop inter-disciplinary approach of learning between mathematics and other discipline.
	Demonstrate skills approach towards CSIR-Net, SET examinations.
	Learn about applications of Mathematics in the field of Graph Theory, Fluid Dynamics, Partial Differential equations, Integral Equations and Stochastic Processes and gain experience
Course	Outcomes
	Students are able to apply mathematical methods and models to study various problems that arise in industry and business with an emphasis on developing computable solutions that can be implemented.
	Eligibility towards research / employment
	BSc PHYSICS
Programme Outcome	Apply the basic laws of physics in the areas of classical mechanics, Newtonian gravitation, Special Relativity, electromagnetism, geometrical and physical optics, thermodynamics and statistical mechanics.
Programme Specific Outcomes	Analyze the quantum methods in the solution of problems involving atomic spectra, blackbody radiation, the photoelectric effect, X-ray emission, the structure of the atom, and one-dimensional potentials.
	Understand classical experimental techniques and modern measurement technology including analog and digital electronics, laboratory test equipment, optics, lasers, and detectors.
	The students develop good experimental technique, including proper setup and care of equipment, conducting experiments and analyzing results and make meaningful comparisons between experiment and theory.
Course Outcomes	
	Attained the knowledge of application of Newton's laws of motion to modern technology like rocket development and its motion.

	<p>Relating to thermodynamic knowledge the student gains the knowledge of refrigeration-cooling technology.</p> <p>Under optics- gain the skills relating to laser beam technology, fiber Optics, holography.</p> <p>Knowledge relating to A.C And D.C current, working of generator, dynamo, GM</p> <p>As scientific assistant in space research. Progression to PG education in Physics.</p>
	BSc CHEMISTRY
Programme Outcome	<p>Students will demonstrate an understanding of major concepts in all disciplines of Chemistry.</p> <p>Students will employ critical thinking and the scientific method to design, carry out, record and analyze the chemical experiments related to the real world.</p>
Programme Specific Outcomes	Students obtain a basic knowledge of Chemistry, the laws of thermodynamics, chemical analysis goals and reactivity of some functional groups.
Course	Out Comes
	<p>Understand the structural difference among solids, liquids, gases and solutions.</p> <p>Students will be to explain the electrical and thermal properties of d- block elements through Free Electron Theory, Valence Bond Theory and Band Theory</p> <p>Analyze the structures of glucose, fructose and sucrose and their chemical properties</p> <p>Use spectrophotometer to analyze known and unknown organic and natural compounds.</p> <p>Students gain the knowledge of the radio activity estimation of P^H paper, volumetric analysis, estimation of available chlorine in bleaching powder.</p> <p>Students learn about water sources, water treatment and water analysis.</p>
	M. Sc- CHEMISTRY
Programme Outcome	<p>Understand the Concept of Aromaticity to Organic Compounds and Natural Products</p> <p>Explain the properties of metal Complexes and Transition Elements.</p> <p>Analyze the indicators and Sampling techniques.</p> <p>Use spectrophotometer to analyze known and unknown organic and natural compounds. Through UV, IR NMR Mass data</p>

	Applies the uses of drugs and Antibiotics in Daily life.
Programme Specific Outcomes	Students will get Global level research opportunities to pursue Ph.D programme targeted approach of CSIR – NET examination.
	Enormous job opportunities at all level of chemical, pharmaceutical, food products, life oriented material industries. They get specific placements in R & D and synthetic division of polymer industries & Allied Division.
	Students can appear for Discipline specific competitive exams conducted by Service Commission.
Course Outcomes	
	Students are able to analyze the sample and to control or decrease the byproduct –Impurities in various drug samples.
	They get chance as a quality controller in food industry to improve the quality of food products
	They get knowledge in handling in instrumentation, structural determination of unknown compound by using spectral data.
	Able to analyze the synthesis of unknown organic compound by disconnection approach
	Eligibility towards research / employment.
BSc BOTANY	
Programme Outcome	Students learn about biological sciences, agriculture, and food and environment control. The students gained the knowledge relating to the interrelations hips of different plant groups and their evolutionary tendencies.
	Students gain the knowledge enough to differentiate animals ,plants and Micro organisms with their distinguishing characteristics
Programme Specific Outcomes	Student gained the Knowledge and acquired capability of application of Knowledge in the areas like Agriculture, Plant Medicines, Horticulture and Tissue culture.
	Students study about relating to medicinal botany, cell biology, genetics plant physiology, taxonomy, economic botany. Progression to PG education in botany, Environmental science, biotechnology, bio informatics, bio chemistry, microbiology, genetics. Self employment through mushroom cultivation, nursery activity.
Course Outcomes	
	Course makes the students to understand the concept of cells and their

	activities.
	Students understand micro organisms and their participation, the role of micro organisms in diversity.
	The course presents the way characters get transferred through generations and methods to analyze and modify them.
	BSc ZOOLOGY
Programme Outcome	<p>Students understand the fundamental principles of systematic in which the animals are how to classify according to their characters. Different groups of invertebrate animals are studied in this course including Protozoa, Porifera, and coelenterate, Plathyhelminthes, Aschelminthes, Annelid, Arthropod, Mollusk and Echinodermata. General characters and classification upto order are studied.</p> <p>Some special features, organs, pathogenecity, life history and significance. Dissections of different systems of invertebrate animals are to be studied such as leech, cockroaches, Pila and Prawn etc to understand the structures and arrangement of different muscular regions. It helps to get a better idea about their structure and function.</p>
Programme Specific Outcomes	<p>Students gain knowledge about Ecological adaptations and also gained knowledge of inters relationships of the animal with other groups like plants and microbes.</p> <p>Students gain practical knowledge about the specimen observation and its classification depending on the observed characteristics , Alkalinity, concentration of oxygen in the given water sample and also analysis of human blood regarding types of blood groups(A,B,AB,O),Estimation of Hemoglobin, total count of RBC ,WBC etc.</p> <p>Students understand the applications of zoology in Aquaculture, Vermiculture, Sericulture, Poultry Science and Fundamentals of Clinical Science and Immunology.</p>
Course Out Comes	
	<p>Students Attain knowledge relating to cell biology, genetics, clinical science and physiology.</p> <p>Progression to PG education in zoology, aqua culture, , Environmental science,</p> <p>Bio-technology, bio informatics, bio chemistry, microbiology, Human genetics, Marine biology.</p>

	Students get employment in industries/self employment in poultry, veterinary, Aquaculture.
	BSc COMPUTERS
Programme Outcome	<p>Students understand the principles and working of the hardware and software aspects of computer systems.</p> <p>Understand, analyze and develop computer programs in the areas related to algorithms, multimedia and web design for efficient design of computer-based systems of varying complexity. Perform Programs in the programming languages of C, C++, Java, DS, C#. Net, DBMS, Web Technologies.</p> <p>Understanding the applications of computer Science in Office work, Software development, Photo Studios and Internet centers</p>
Programme Specific Outcomes	<p>Students will be able to apply knowledge of computing and mathematics appropriate to the discipline.</p> <p>An ability to identify, formulates, and develops solutions to computational challenges.</p> <p>Students design, implements, and evaluate a computational system to meet desired needs within realistic constraints.</p>
Course Out Comes	
	<p>Students possess competent skills and knowledge of software design. The ability to interpret the fundamental concepts and methodology of computer systems.</p> <p>Students understand the functionality of hardware and software aspects of computer systems.</p> <p>Students will be able to complete successfully program small-to-mid-size programs on their own and attained the programming languages of C, C++, Java, DS, C#. Net, DBMS, Web Technologies.</p> <p>a career in an information technology oriented business or study in computer science</p>
	B.Sc HOME SCIENCE
Programme Outcome	<p>Students will be able to demonstrate proficiency in communicating competently in groups and organizations, competence in interpersonal communication.</p> <p>Possess skills to effectively deliver formal and informal presentations to a variety of audiences.</p>

	<p>Foster social skills and peer interaction enabling them to make all people feel valued and respect their differences by being responsible citizens for creating a socially inclusive society</p> <p>Recognize values such as justice, trust, equity, fairness, kindness and develop a commitment to meeting and upholding standards of ethical behavior in all walks of life.</p> <p>Discern the issues of environmental contexts and engages in promoting values and attitudes that claim coexistence and sustainable living with reduced, minimal, or no harm upon ecosystems.</p>
Programme Specific Outcomes	Understand the basic concepts of Human Physiology, biochemistry, microbiology, environment and Human rights
	Plan and prepare diet for healthy life style using the principles of Food Science and Nutrition.
	Acquire the skill to be an independent lifelong learner embracing real-time changes in the socio-technological context, promoting continuous development and improvement of the knowledge and skills needed for employment and personal fulfillment
Course Out Comes	
	<p>Understand the principles and patterns of growth and development of humans from conception to old age and the role of family in development.</p> <p>Students acquire scientific skills in the management of resources and develop basic skills for career options in the fields of dietetics, interior designing, textiles and fashion designing and preschool education.</p> <p>Students will be able to apply the acquired conceptual knowledge of food quality assurance and sustainable waste management for holistic living.</p>
	BSc STATISTICS
Programme Outcome	Students will gain the knowledge and confidence to work effectively in a broad range of analytic, scientific, government, financial, health, technical and other positions.
	Students learn Mathematics and Statistics, an appreciation of how its various sub-disciplines are related, the ability to use techniques from different areas, and an in-depth knowledge about topics chosen from those offered through the department.

	<p>Recognize the importance and value of mathematical and statistical thinking, training, and approach to problem solving, on a diverse variety of disciplines; be familiar with a variety of examples where mathematics or statistics helps accurately explain abstract or physical phenomena.</p> <p>Students appreciate the connections between theory and applications and they will be able to independently read mathematical and statistical literature of various types, including survey articles, scholarly books, and online sources.</p>
Programme Specific Outcomes	Understand the concept of mean, mode, and central tendency, analysis of categorical data, probability, and random variables.
	Understand the Bivariate random variable, correlation and regression, Partial correlation, and Exact sampling distributions.
	Sampling techniques, Analysis of variance, time series, Indian statistical system, Importance of SQC, Acceptance sampling, Linear programming problem and Reliability.
	Design of experiments, Index numbers, Vital statistics, Demand analysis, Transportation Problem, Assignment Problem, Sequencing Problem and Game theory.
Course Outcomes	Students will be able to Organize, manage and present data.
	Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.
	Students will be able to analyze statistical data using measures of central tendency, dispersion and location.
	Students will have the ability to use the basic probability rules, including additive and multiplicative laws, using the terms, independent and mutually exclusive events.
	Translate real-world problems into probability models.
	Analyze Statistical data using MS-Excel.
	NCC
Programme Outcome	<p>NCC provides exposure to a range of subjects from Humanities to Science and Technology, apart from the Military Subjects taught both theoretically and practically.</p> <p>NCC gives training and brings disciplined leadership in the cadets.</p> <p>Students will have the knowledge about Disaster Management.</p> <p>Cadets will get knowledge of Drill with Arms as a military training elementary aspect.</p>

	<p>The gain the knowledge of field signals, section and platoon formation, and art of using ground and the available weapon as a military training elementary aspect. NCC cadets will get employability in defense, paramilitary forces and other services.</p> <p>Enhancement of skill and patriotic values among youth.</p>
Programme Specific Outcomes	<p>NCC Programme instill and inculcate the core values of patriotism, commitment, just and impartial exercise of authority, effective contribution to community development and other social programs , healthy life style practices, habits of restraint & self-awareness & empathy to the needs of socially disadvantaged fellow citizens and above all enduring respect for knowledge, wisdom & power of ideas among the youth.</p> <p>Students get career opportunities such as defense / paramilitary/ police forces & civil services</p>
Course Out comes	<p>Cadets gain basic military training in small arms and parades.</p> <p>They Develop Character, Comradeship, Discipline, Leadership, Secular Outlook, Spirit of Adventure, and Ideals of Selfless Service amongst the Youth of the Country.</p> <p>Students gain theory and practical knowledge to appear for 'B & C' Certificates.</p>