2.6 Student Performance and Learning Outcomes

Program outcomes, program specific out comes and course outcomes

Bachelor of Computer Science Program out comes

BCA is a three years' full time degree course which consists of six semesters. Each even semester consists of five theory papers and two practical labs and each odd semester consists of four theory paper and one practical lab. Besides this BCA programme consists of two projects one is minor and other is major.

Minor project based on industrial training and major project is the development of any innovative project like web sites, online projects, application software's, database projects, android applications and mobile applications.

The curriculum has been designed to give the students an in depth knowledge of various subjects related to information technology along with basic concept of management and core concept of mathematics.

This program comprising following courses:

Courses and Course outcomes:

Digital Electronic and Computer Architecture	Ability to understand the principles and development methodologies of computer systems. Students can assess the hardware of computer systems and possess professional skills and knowledge of hardware design process
Mathematics and Numerical Analysis	Ability to apply mathematical methodologies to solve computation task. Capability to design algorithms for mathematical problems of real world. fostering strong knowledge of mathematics in students of non-math background.
Software Engineering and System Analysis and Design	Apply standard Software Engineering practices and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success. Learn the process and various phases of software development to become good system analysis / developer/ designer/ tester.
Web Technology and Java	Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, and data analytics of varying complexity
Business Communication	Learn to communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports, design documentation, make effective presentations, and give and receive clear instructions.
Financial Management	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. Ability to understand about financial activities such as procurement and utilization of funds. Ability to apply management principles to finance resources of the enterprise.
Organizational Behavior and Principal of Management Business Economics	Students learn various managerial skills to improve their professional attitude. Ability to understand human interactions, maximise output with minimum efforts and resources, regular innovation and best possible use of available resources. Exhibit proficiency through latest technologies to business and personal situations in demonstrating the ability for work efficacy as a part of team and apply professional behavior and ethics.
Programming Languages \(C,C++,Java, Data Structures, Web Technology)	fostering program development in professional environment. Ability to understand imperative, functional, object oriented, logic programing paradigm. Ability to understand communication and interaction with computers. Ability to think logically Ability to apply imagination with logics problem using appropriate data structure and suitable algorithm
RDBMS, SQL and PL SQL	Handling of RDMBS and data retrieval and storage using Structured Query Language. Creation of databases and tables from entity relationship diagram.

	Ability to understand the role of Database Administration and protection of data from unauthorised access.

MSc Computer Science or Master of Science in Computer Science is a 2-year degree program which caters to the needs of people interested in the field of computers. This 2-year course is considered one of the most sought after degrees in India in terms of personal growth and career growth opportunities. Students are provided with opportunities to develop and hone core competency in the field of computer science and encourage them to make a mark in the much sought after IT industry. Who may Apply (Eligibility Criteria): - Applicants should hold a 3-year bachelor's degree (or equivalent) in a field B Sc. IT / B Sc. CS / B.Sc. Mathematics or BCA. M.Sc. (Computer Science) Jobs and Career Options:- A career with exceptional prospective fields and challenging roles in a futuristic industry like Cyber Crime, Network Security, Computer Graphic and Multimedia Design (CAD, CAM), Computer vision and surveillance, Robotics, Artificial intelligence, Mobile devices must opt for this program.

THIS PROGRAM COMPRISE FOLLOWING COURSES
First Semester: - Second Semester:-
MC01 Foundation Course in Computers I
MC02 Programming in C and data structure
MC03 Discrete Mathematical Structures
MC04 Computer Oriented Statistical Techniques
MC05 Computer Lab I MC06 Foundation Course in Computers II
MC07 Design and analysis of Algorithms
MC08 File Structure and Database Management System
MC09 Computer Oriented Numerical Analysis
MC10 Computer Lab II
Third Semester: - Fourth Semester:-
MC11 Interactive Computer Graphics
MC12 Computer Networks and Internet
MC13 Computer Oriented Optimization Methods
MC14 Object Oriented System
MC15 Computer Lab III MC16 Fuzzy sets and Applications
MC17 Cryptology and Secure Systems
MC18 Artificial Intelligence and Neural networks
MC19 Java Programming
MC20 Computer Lab IV
PROGRAM OUTCOMES

Foundation course in computer Ability to understand more about basics of computer design,memory,number system & description about assembly language. Demonstration of os,peripheral,I/O ,memory management in computer.
Programming in C, data structure, java and interactive graphics Be more advanced and specific about individual language and apply their knowledge in complex engineering problems.
Discrete mathematical structure Design a solution using graph theory and counting techniques and study about Boolean algebra and communication model and codes.
Computer oriented statistical techniques &numerical analysis Apply and select appropriate probability distributions and utility of statistical aspects like correlation, regression and variance. Numerical study about Interpolation, differential equations.
Design and Analysis of algorithm Creating solutions using dynamic programming and algorithmic implementations.
File structures and database management systems A depth about data base structures, relational model and concurrency management in DBMS
Computer network and Internet A layer wise explanation of entire networking solutions, devices, protocols and possible communication channels.

Computer oriented optimization methods Apply game theory, linear programming, graph representations in real life applications.

Object oriented analysis and design	Acquire a sound knowledge of design methodology ,modeling concepts and object oriented applications.
Fuzzy sets and applications	Exhibit proficiency over fuzzy sets, logics and all fuzzy operations including miscellaneous applications.
Cryptology and Secure systems	Understanding of entire cryptography system and all possible algorithms including recent advancement in this field.
Introduction to artificial intelligence	Understanding of AI,its programming language ,syntax and semantics with real life solutions

Bachelor of Business Administration Program out comes

BBA	BBA is a 3-year – full time under-graduate semester programme which is affiliated to CCS University, Meerut Equipped with an in-depth understanding of management theory & practices coupled with industry exposure. The programmer lays emphasis on creating an impeccable foundation by rendering specialization courses in domains entailing Finance, Marketing, Data Analytics and Entrepreneurship. BBA Program facilitate the young minds with an intellectually stimulating environment to learn the art of business management and leadership. The emerging competitive landscape of business has rendered the need for a new cadre of professionals.
B.Com	B. Com is a 3-year – full time under-graduate annual programme which is affiliated to CCS University, Meerut meets the expending needs in Commerce education at all levels & provide necessary man power to industry, trade, PSU's, Govt. & Private enterprises in the areas like Finance, International Business & Accounting.
Course Out Comes:	
Business Mathematics	Ability to apply mathematical model to solve real world problem using appropriate techniques and suitable formulas like ratios, interest, probability etc.
Business Communication	Being able to comprehend and write effective reports and design documentation, make effective presentations, and give & receive clear instructions. Interact effectively on complex managerial activities with the organizational community and with society at large.
Financial Management	Apply knowledge and understanding of the Financial management principles & techniques and apply these to prepare various financial statements, as a member and leader in a team, to manage current and future financial tasks in multidisciplinary departments in organization.
Organizational Behavior	Candidates able to better understand their fellow workers and channelize their skills & resources to achieve goals of the organization.
Computer Fundamental	Expertise in office automation software's like documentation, presentation, spread sheet and data storage.
E-Commerce	Business-to-Business strategies, Virtual Communities, Web Portals, E-commerce Software, Payment systems, Security and User's Experience-business Infrastructure, Selling and Marketing on the Web, Web Server Hardware and Software.
Principles of Management	It helps to learn various managerial skills to improve their professional attitude and how to handle situations and behave in professional environment

Book Keeping & Basic Accounting	Student learns the essential skills required for basic business transactions and accounting and apply knowledge to maintain basic accounts records.
Human Resource Management	Make a candidate efficient in managing personnel and human resource of any organization, designing of job, allocation of human resource, set the payments & reward etc.
Management Information system	Student able to maintain database, disseminate knowledge of various departments to authorize persons with security and prepares the data in the form of relevant information by using information technology techniques.
Advertising Management	Demonstrate an understanding of advertising strategies and media. Analysing the various advertising modes to run advertising campaign effectively.
Research Methodology	Provides comprehensive knowledge of various research methods, tools and techniques of data collection and interpretation which will make a student efficient to solve a problem of any organization.
Marketing Management	Enables a candidate in formulating strategies for developing new products and services that are consistent with evolving market needs. Evaluate the viability of marketing a product or service in an international market or markets. Evaluate results of marketing activities using criteria related to budgeted sales, costs and profits.
Business Ethics	Provides ethical knowledge and develop ethical attitude of candidate towards organizational employees as well as society at large.
Sales Management	It provides skills set and approaches to keep sales team motivated, on track and producing the results that the organization needed.
G.S.T.	It helps to understand the importance of indirect taxes (GST) in the Indian economy and its contribution to the economic development. Provides knowledge of indirect taxation structure which make a candidate efficient as a practitioner.
Auditing	Students will be able to Articulate knowledge of fundamental audit concepts, Demonstrate the use of the Auditing, & Apply critical thinking skills and solve auditing problems through the use of case studies.
Cost & Management Accounting	Make the student efficient in critically analyse and provide recommendations to improve the operations of production through the application of cost accounting techniques; demonstrate mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.
Production Management	Being able a candidate in better understanding of modern production techniques. Better understanding of quality management. Management skills needed for the effective operations management.
Business Economics	Helps to understand various aspects of economics demonstrate relation between demand, supply and production function of any organization.

Bachelor of Science (Home Science) Program out comes

B.SC. (Home Science) Out comes

PO1- Develop problem solving competencies in life Skills

PO2- Understand the role of interdisciplinary Sciences in the development of individual families & Communities

PO3- Enhanced the application of Science & technologies is quality of life of individual

PO4- Acquired professional & entrepreneurship Skills for economic empowerment of self in particular & Community in general

PO5- Trained students in professional skills

PO6- Understand the issues of green technology

PO7- Developed professional skills in foods & nutrition, textile Science basing product making, Communication technologies & human development

PO8- Adopted & transfer the Scientific innovations farm lab to the Community

Course Art come (C.O)	
English Language &Communication Skills	Co1 Understand the teams& tools to communication Co2 Develop various Speaking Skills
Communication and Instructional Technology	Co1 Develop various means of Communication (verbal& Non Verbal) Co2 Differentiate between personal &professional Interactions
Introduction to Human Development -1	Co1 Demonstrate Understanding of human development Co2 Gain knowledge to locale examples of development in cultural context
Food Science	Co1 Understand the relation between food, notations heath Co2 Understand the concept of nutrient losses during cooking
Human Physiology	Co1 Understand physiology of all systems to human body Co2 Develop Understanding of mental reproductive& Social Heian
Computer Basic	Co1 Understand Basic comment of Computers Co2 Understand the concept of various Computers
Environmental Science- Qualifying Paper	Co 1 Identification &Importance of biodiversity Co2 Relate environmental Pollination with public heath
Introduction to Resource Management	Co1 Describe textiles fibers in terms of their production & properties Co2 Understand various dyeing, printings sing techniques
Introduction to Resource Management	Co1 Comprehend the fundamentals of R M in changing Scenaneic Co2 Understand the process of Management in Scientific manes in use of reparses

Applied Physics	Co1 Acquire Skills in handling diffusing house hold experiment Co2 Understand basics electricity & modern physics
Applied Chemistry	Co1 Understand Concept of volumetricanalysis Co2 Acquire the Knowledge of biomolecules dyes etc.
Sanitation & Hygiene	Co1 Prescribe personal hygiene & health habits Co2 Describe food borne illness symptoms& preservative methods
Meal Management	Co1 understand the relations up of nutrition to human heath Co2 Acquire the knowledge of meal planning& its importance
Family Dynamics	Co1 To sensitize the students towards massages family Co2 To become aware of problems in family & way of coping
Human Development -II	Co1 Gain knowledge to locate examples of development during adult head Co2 Demonstrate understanding development from adolescence to adulthood
Consumer Economics	Co1 To cereal goal of consumer studies is to create awareness about consumer problems in the marks Co2 To impart knowledge regarding the role of consumer guide and agencies
Nutritional Bio-Chemistry	Co1 Comprehend the principles of planning nutritionally Co2 Understand Nutrition during Special Conditions
Laundry Science &Finishing of Fabrics	Co1 Understand the basic concept of soap detergents Co2 Understand the Knowledge of stains its removal
Applied Life Science -1	Acquire Skill of plant propagation Understand basic of genetics& genetic counseling
Introduction to Clothing Construction	Co1 Understand the principle of clothing Constriction Co2 Understand the Sewing Machines &it's parts defects
House Hold Equipment's	Co1 Understand the mechanizing of various house hold equipments Co2 Understand the uses care of house hold equipments
Food Microbiology	Co1 Understand the microorganisms associated with food Co2 Understand the rule of M.O.In fermentation, Spoilage and diseases
Applied Life Sciences -II	Co1 Understand various aspects of plants censes Co2 Understand various aspects of biotechnology
Human Development -III	Co1 Understand the physical development (13-18 yrs.) Co2 Acquire the knowledge of social reaction shop
Community Nutrition	Co1 Understand the multi-faceted nature of nutritional problem Co2 Be aware of various aspects of nutrition coeducation promotion
Therapeutic Nutrition	Co1 Understand principles of nutrition care Co2 Modify the normal diet for therapeutic purpose

Human Development-IV	Co1 Understand the Development (20-35 & 35-50 yrs.) Co2 Understand the Development (50-60 &onwards)
Community Development	Co1 Understand the problems of community development Co2 Understand the community development programmer
Family Housing	CO1 Acquire knowledge of residential planning Co2 Understand the concept of family housing
Advanced Clothing Construction	Co1 Understand the Renovations removal of defects in garments Co2 Understand the making if paper patterns for garments
Nursery school education	Co1 Acquire knowledge of different methods of NSE Co2 Understand objectives impalas of NSE
Textile Design	Co1 The learner will acquire knowledge of various days used on textile fibers Co2 To learn different styles and methods of printing
Interior Decoration& Art Principles	Co1 Comprehend the nuances of design with faces an interior Co2 Skilled in use of Computer aided design to prepare in terroir plans
Food Preservation & Protection	Co1 Understand the basic principles of food preservation Co2 Learn the various preservation technique & their application
Entrepreneurship& Motivation	Co1 Understand the concept of Entrepreneurship development for Motivation Co2 Sensitized towards entrepreneurship opportunities
Extension Training & Management	Co1 Learn about concepts & scope of extension in development Co2 Develop skills for using participatory approaches in programmer management

B.SC. (Biotechnology) Out comes

PO1-Acquire the knowledge with facets & figures related to papers in biotechnology.

PO2 Understanding the basic concepts, fundamental principles & their scientific theories related to various scientific phenomena & their relevancies in the day to day life

PO3 Acquire the skill sin handling scientific instruments, planning & performing in laboratory experiments

PO4 The skills of observation & drawing logical inferences from the scientific experiments.

PO5 Analyse the given scientific data critically & systematically and the ability to draw the objective conclusions

PO6 to attract biotechnology experts from the world to train & develop local expertise.

Course Outcomes

Biochemistry	Co1 Understand the basic concepts of aminoacyls, proteins, Lipids& carbohydrates Co2 Understand concepts of enzyme& their kinetics
Biophysics	Co1 Understand the concept of PH & butters Co2 Understand the concept of chemical bonding radioactivity&half-life.
Cell Biology	Co1 Understand the basic principle of cellules organization Co2 Understand the concept of cell division, chromosome & its structure
Microbiology	Co1 Demonstrate the basic concept of sterilization& staining. Co2 Understand concept of pathogenic microorganisms& disease caused by them
Genetics	Co1 Understand mentalism, interaction of Genes & human genetics Co2 Graphics the concept of linkage & maternal inheritance
Instrumentation	Co1 Understanding the bank knowledge of instruments-microscope, centrifuge, speech pho to meter Co2 Understand the salient features of chromatography&electrophoreses
Biomathematics & Biostatistics	Co1 Understand the salient features & classification of data Co2 Understand concepts of central values, valuation &probability
Chemistry	Co1 Understand the basic principles of logic, covalent & metallic bond Co2 Understand the quantum mechanics& atomic structure
Bio-diversity	Co1 Understand the basic concept of biodiversity Co2 Understand the concept of Biodiverse conservation
Fundamental of computers & Bio informatics	Co1 Demonstration of computer & networking Co2 Understand the concept of databases sequence alignment& drug designing
Bio energetics & Bio membranes	Co1 Understand the knowledge of thermos dynamics enthalpy, entropy etc. Co2 Understand the transport across membrane
Molecular biology	Co1 Understand the basic concepts of DNA replication transcription & translation in problematics&enquiry. Co2 Understand the concept of Gene organization& expression
Molecular Genetics cytogenetics	Co1 Understand the basic concept of deletion, duplication & inversion Co2 Understand the salient features of various Genetic disorders
Immunology	Co1 Understand the concept of antigen & antibody Co2 Understand the concept of vaccines &immunization
Recombinant DNA technology	Co1 understand the basic principle of invite construction of RDNA molecules Co2 Understand the features of transformation PCR & gene libraries
Animal Physiology	Co1 Understand the concept of circulatory Respiration, Excreta System etc. Co2 Basic concept of animal behaviors, homeostatic etc.
Plant Physiology	Co1 Understand the mechanism of photo syntheses &respiration plants Co2 Understand the process of flowering, photo periodic senescence.

Enzyme Technology	Co1 Understand the salient features of enzyme its application Co2 Demonstrate the techniques of enzymes purification &immobilization
Plant Biotechnology	Co1 Understand the basic principle of single cell culture& organ culture Co2 Understand concepts of transgenic plants
Animal Biotechnology	Co1 Understand the concept of growth factors & media in cell culture Co2 Concept of transfection of animal cell lines
Molecular virology	Co1 Understand the concept of Genome organization in viruses Co2 Demonstrate the methods of viruses detection
Nano Biotechnology	Co1 Demonstrate the concept of silver nanoparticle preparation Co2 Understand the basic concept of quantum dots technology
Environmental Biotechnology	Co1 Understand the concept of environment & energy resources Co2 Concepts of Leaching &Bio fertilizers
Industrial Biotechnology	Co1 Understand the concept of fermentation Up stream & downstream methods Co2 Understand the salient features of Microbial assisted production of enzymes molecules etc.
Genomics & Proteomics	Co1 Demonstrate the concept of genome sequencing Co2 Understand the concept of cancer proteomics
Biosafety, IPR & Entrepreneurship	Co1 Understand the concept of policies related to transgenic plants Co2 Understand the concept of patent, farmer rights & bio entrepreneurship
Recent trends in Biotechnology	Co1 Understand the concept of artificial cell Co2 Understand the concept of eclipse vaccines & Biofuel production

M.SC. (Biotechnology) Out comes

PO1-To produce competent biotechnologist's who can employ & Implement their knowledge base in premium processes and application

PO2- Apply their knowledge in existing paradigm of agriculture, industry healthcare & restoration of degraded environment of provide sustainable competitive edge to present society

PO3- Students will exhibit contemporary knowledge in Biotechnology and students will be eligible for doing jobs in various sectors of Pharmaceutical and biotechnological industry

Course Outcomes

Fundamental of Genetics	Co1 Understand the mendelian inheritance& Gene interactions Co2 Understand the mutation & its application in crop improvement Co3 Understand the concept of in born error of metabolism in man
Cytogenetics & Molecular Genetics	Co1 Understanding Genetic recombination's& mutations Co2 Understand concepts of physical basis of heredity Co3 Concept of organization of genes in DNA

Statistical methods & Bio-informatics	Co1 Understand the representation & Clarification of data Co2 Understand the various types of statistical tests Co3 Understand the knowledge of data basis & sequence alignment tools
Tools & Techniques in Biotechnology	Co1 Understand the basic principles of chromate graphic Co2 Understand the concept & applications of centrifugation Co3 Demonstrate the basic principles & application of electrophoresis
Fundamentals of Biochemistry	Co1 Gain knowledge on concept of bioenergetics & Laws of thermodynami Co2 Concept of protein, Lipids &carbohydrates
Plant Genetic Reserves	Co1 Understand the concept of Biological species & centers of Diversity Co2 Understand the techniques of conservation of plant germplasm Co3 Understand the concept of patent, copyright & trademarks
Biotechnology in crop improvement	Co1 Demonstrate concepts of scope & importance of plant tissue culture Co2 Demonstrate mechanism of DNA Transfer in plants Co3 Understand the concepts of production of useful chemicals & seconda
RDT & Genetic engineering	Co1 Understand the basic principle of recombinant DNA molecule construc Co2 Understand the features of transformation screening, expression of re Co3 Understand techniques such as PCR & hybridization
Microbial, Industrial & Environmental Biotechnology	Co1 Gain knowledge on concept of microbial classification systemic Co2 Physical, Chemical & Biological central of micro organisms Co3 Concept of fermentation kinetics, renewable & non-renewable energy
Concepts of Nano-technology	Co1 Understand the concept & application of Nano biotechnology Co2 Understand the applications of quantum dots in biology Co3 Understand the synthesis of Nano scale elements of delivery of mater
Animal biotechnology & Immunology	Co1 Understand the concepts of immune system & types of immunity Co2 Demonstrate immunological techniques Co3 Understand the concept of animal cell culture, TVF & ET
Genomics & Proteomics	Co1 Understand the concept of Genome mapping Co2 Understand the concept of protein interaction & drug designing Co3 Understand the proteomics data back and analysis.

Teacher Education Program out comes

- To develop understanding about school of psychology
- To develop understanding about theories of learning and its educational implication
- Develop and understanding of how one's ability interests and aptitudes are related to world of work.
- Know about the importance of developing the right attitude and values at every stage of education.
- To develop understanding about Indian Education system in social, historical and political economy context.
- Develop in the student teacher a sense of awareness about the environmental pollution, and possible hazards and its causes and remedies.
- To describe the nature, purpose, scope, areas, and types of research in education.
- Understand the concept of holistic of health and its various dimension and determinates of health.
- To acquaint with competencies essential for the teaching profession.
- To acquaint with sense of accountability for the teaching profession.
- To develop an awareness about the recent innovations and future perspectives of education technology.
- To understand the meaning of testing, measurement and evaluation.
- To understand problems and challenges of secondary and higher secondary education in India.

- To develop skills of learners to design curriculum outline for a school programme

E-101	Contemporary India & Education	1. Understand that development of education is influenced by socio-political forces of the time.
		2. Appreciate the developments of Indian Education in the post Independent period.
E-102	Philosocal & Sociological perspective of Education	1. Answer three basic questions-what/ why & how of the education.
		2. Build their own view about different Indian Religion & respect them.
E-103	Growing up as a learner	1. Acquire the basic principles of psychology of learns. 2. 2. Apply various psychological principles and approaches to learning.
E-104	Teacher, Teaching and Technology	1. Manage teaching and learning effectivity & efficiently.
		2. Identify& implement instrument instructional strategic in different situation.
E-201	Pedagogy of Hindi	1. Understand about the nature &characteristics of a language & mother tongue & use of language.
		2. Practice the required skill & their interlinks for mastering a language.
E-202	Pedagogy of English	1. Understand the various approaches for planning for successful language teaching.
		2. Understand the approaches for teaching different aspects of language.
E-203	Pedagogy of Sanskrit	1. Understand the Aids and other similar available material that could be used of teaching language.
		2. Practice the technique of obtaining feedback for self-evaluation& evaluation of students' success in learning & using the language.
E-204	Pedagogy of Social Science	1. Understand concept, meaning& scope of social science.

		2. Prepare unit plan & lesson plan.
E-205	Pedagogy of Mathematics	1. Understand &appreciate the uses & significance of mathematics in daily life.
		2. prepare curricular activities as per the needs.
E-206	Pedagogy of Physical Science	1.Develop their essential skill for practicing modern physical science education.
		2. Develop their skills necessary for preparing international accessories.
E-207	Pedagogy of Biological Science	1. Develop their essential skills for practicing biological science.
		2. Lesson planning of biological science properly.
E-208	Pedagogy of Computer Science	1. Develop their skills necessary for preparing insertionaccessories.
		2. Know the methods of planning instruction for the classroom.
E-209	Pedagogy of Home Science	1. Acquaint with the objectives of teaching home science in secondary & higher secondary education.
		2. Understand the various methods & techniques that can be employed in the teaching of home science.
E-210	Pedagogy of Commerce	1. Acquire knowledge of the term & concepts used in the pedagogical analysis of commerce& accountancy.
		2. Understand lesson planning & evaluation aspects in teaching commerce & accountancy.
Course Code	**Course Title**	**Course Code**
E-301	Creating an Inclusive School	1. Understand Inclusive education
		2. Concept and Nature
		3. Identify and utilize existing resources for promoting inclusive practice.
E-302	Gender, School and Society	1. Help them understand the contribution of women in social economic & political development of the society.

		2. Sensitize the future teachers to words basic understanding of various key concepts of gender studies.
E-303	Knowledge Language & Curriculum	1. To Develop writing skill.
		2. To Develop the ability to read & comprehend.
E-304	Work Education Gandhi'sNiaTamil and Community Engagement	1. Participate efficiently in the local community services.
		2. Compatible with various curriculum frameworks related to NiaTamil
E-401	Assessment for learning	1. Develop interests in learning recent developments in commerce and Accountancy
		2. Understand lesson planning and evaluation aspects in teaching commerce and Accountancy.
E-501	Educational Administration and Management	1. Develop an understanding of the role of the headmaster and the teacher in school.
		2. Have an India of new trends in evaluation.
E-502	Guidance and counselling	1. A survey/Project on any related problem.
		2. A study of leadership style of headmaster of high school of the district.
E-503	Environment Education	1. A survey/Project on any related problem.
		2. Critical analysis of any them of the course content in about eight to ten pages.
E-504	Computer Education	1. Understand features of MSoffice and their operations.
		2. Develop skill in using MS word power points and spread sheets.
E-505	Health, Physical Education & Yoga	1. Acquaint them to school health programmer its importance.
		2. Acquire the skills for assessment of physical fitness.
E-506	Life style management	1. Identify their life styles

		2. Developing a successful personality.
2.6.1	**M.Ed. I Sem.**	
Course Code	**Course Title**	**Objectives**
CC-1	Philosophical Foundation of Education	1. To examine the philosophical origin of educational theory and practice.
		2. To enable the student to develop a philosophical point of view towards educational problems.
CC-2	Psychology of learning and development	1. To understand psychology of development.
		2. To understand individual difference and pupils readiness towards learning.
CC-3	Sociological foundations of education	1. To develop adequate familiarity with social, structure, class, caste and culture.
		2. To help students to make a critical analysis of the social culture
CC-4	History of Indian education and economic issues.	1. To develop understanding about Indian education system in social, historical and political economy context.
		2. To develop understanding of the economic issues in education.
CC-5	Educational studies and system	1. To understand the nature of education as a discipline and area of study.
		2. To discuss the emerging trends of school education.
CC-6	Fundamental of research methodology	1. To describe the nature, purpose, scope areas and types of research in education.
		2. To explain the importance of documentation and dissemination of researches in education
CC-7	Perspective, Research and Issues in Teacher Education	1. To acquaint with competencies essential for the teaching profession.
		2. To understand the new trends and techniques in teacher education.

CC-8	Educational Technology and ICT	1. To develop and understanding of the nature and scope of educational technology
		2. To select, use and produce instructional material and media effectively
2.6.1	**M.Ed. III Sem.**	
Course Code	**Course Title**	**Objectives**
CC-9	Research Designs, statistics and report writing	1. To understand the tabular, graphical representation of data, measure of relationship and normal distribution.
		2. To understand of non-parametric tests and computer programmers like SPSS.
CC-10	Testing, measurement and evaluation in education	1. To understand the general principles of test contractions.
		2. To plan, prepare to administer And execute the teacher made test.
SC-11 A	Issues and concerns in elementary education	1. To acquaint the students with perspective of elementary education
		2. To understand the role of various commissions, policies and strategies of elementary education
SC-11B	System and structure of elementary education	1. To understand the different perspectives and context of elementary education.
		2. To understand the curricular across different type of school in India.
OC-12 A	Issues and concerns in secondary and higher secondary education	1. To understand problems and challenges of secondary and higher education in India.
		2. To develop the skills and knowledge require for resource management in school at secondary and higher education level.
OC-12B	System and Structure of secondary and higher secondary education	1. To understand the different policies and programmers of secondary and higher secondary and higher secondary education.
		2. To understand the curriculum across different types of schools in India.
2.6.1	**M.Ed. IV Sem.**	
Course Code	**Course Title**	**Objectives**

CC-13	Curriculum Development	1. To develop skills of learns to design curriculum outline for a school programmer.
		2. To enable students to understand the theoretical perspectives of curriculum.
CC-14	Education management, Administration and leadership	1. To become effective manager/administration of education.
		2. To be familiar with the new trends of education.
OC-15 A	Pre-service and In-service teacher education	1. To understand the concept of pre and in service teacher education.
		2. To understand the teacher education curriculum.
OC-17	Guidance and counselling	1. To develop understanding of bases meaning, need and types of guidance.
		2. To develop understanding about counselling research issues and trends.

B.Sc (Biology)

Following are the various Programme Outcomes:

1. This course forms the basis of science and comprises of the subjects like chemistry, biology, zoology. It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.
2. After the completion of this course students have the option to go for higher studies i.e. M. Sc and then do some research for the welfare of mankind.
3. After higher studies students can join as scientist and can even look for professional job oriented courses.
4. This course also offers opportunities for serving in Indian Army, Indian Navy, Indian Air Force as officers
5. Students after this course have the the option to join Indian Civil Services as IAS, IFS etc.
6. Science graduates can go to serve in industries or may opt for establishing their own industrial unit.
7. After the completion of the B. Sc degree there are various other options available for the science students. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.
8. Apart from the research jobs, students can also work or get jobs in Marketing, Business & Other technical fields. Science graduates also recruited in the bank sector to work as customer service executives. Students can also find employment in government sectors.

Syllabus of B.Sc (Bio)- BCZ

First Year: -	**Second Year: -**	**Third Year: -**

Botany	**Botany**	**Botany**
Diversity of Viruses, Bacteria & Fungi Diversity of Algae, Lichens, & Bryophytes Diversity of Pteridophytes & Gymnosperms Practical Syllabus based on theory papers **Zoology** Lower Non Chordata (Protozoa-Helminths) Higher Non Chordata (AnnelidaEchinodermata) Cell Biology and Genetics Practical Syllabus based on theory papers **Chemistry** Inorganic Chemistry Organic Chemistry Physical Chemistry Practical Syllabus based on theory papers **FOUNDATION COURSES** I Bhartiya Sanskriti Evam Rashtra Gaurav **QUALIFYING COURSES** I Environmental Studies II Sports & Physical Education	Diversity of Angiosperms: Systematics, Development & Reproduction Cytology, Genetics, Evolution & Ecology Plant Physiology and Biochemistry Practical Syllabus based on theory papers **Zoology** Chordata Animal distribution, Evolution and Developmental Biology Physiology and Biochemistry Practical Syllabus based on theory papers **Chemistry** Inorganic Chemistry Organic Chemistry Physical Chemistry Practical Syllabus based on theory papers **FOUNDATION COURSES** A candidate will have to select one of the following foundation courses:- 1 Language Communication and Writing Skill : (I) Hindi Or (II) English Or (III) Sanskrit **QUALIFYING COURSES** I General Awareness II Sports & Physical Education	Plant Resource Utilization, Palynology, Plant Pathology and Biostatistics Molecular Biology & Biotechnology Environmental Botany Practical Syllabus based on theory papers **Zoology** Applied and Economic Zoology Biotechnology, Immunology, Biological Tools & Techniques and Biostatistics Ecology, Microbiology, Animal Behavior, Pollution and Toxicology Practical Syllabus based on theory papers **Chemistry** Inorganic Chemistry Organic Chemistry Physical Chemistry Practical Syllabus based on theory papers **QUALIFYING COURSES** III Sports & Physical Education

B.Sc (Maths)-PCM

Programme Outcomes:

Following are the various programme outcomes:

1. B.Sc. mathematics student is able to concentrate on Chemistry, Physics, and Mathematics.
2. Student will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics, and Optics.
3. He is able to demonstrate basic manipulative skills in algebra, geometry, trigonometry, and beginning calculus.

4. The student will determine the appropriate level of technology for use in: a) experimental design and implementation, b) analysis of experimental data, and c) numerical and mathematical methods in problem solutions.
5. He will be able to apply the underlying unifying structures of mathematics (i.e. sets, relations and functions, logical structure) and the relationships among them.
6. He can investigate and apply mathematical problems and solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods.
7. The student will acquire knowledge of Chemical Thermodynamics, Kinetics, Electrochemistry, Atomic Structure, Organic Chemistry, Spectroscopy and Skill in Industrial Chemistry.
8. Student can join Indian Air Force, Indian Navy and can also go for other competitive exams. He can go for higher studies in Mathematics, Chemistry or Physics.
9. He can join as a scientist in research institutes of immense knowledge having a great scope for growth and development. He can prove to be an asset for the society by producing something more innovative.
10. Banking sector is another good option for B.Sc Mathematics students.

Syllabus of B. Sc (Maths)

First Year: -	**Second Year: -**	**Third Year: -**
Mathematics	**Mathematics**	**Mathematics**
Algebra and Trigonometry Calculus Geometry and Vector Calculus **Physics** Mechanics and Wave Motion Kinetic Theory and Thermodynamics Circuit Fundamentals and Basic Electronics Practical Syllabus based on theory papers **Chemistry** Inorganic Chemistry Organic Chemistry Physical Chemistry Practical Syllabus based on theory papers	Linear Algebra and Matrices Differential Equations and Integral Transforms Mechanics **Physics** Physical Optics and Lasers Electromagnetics Elements of Quantum Mechanics, Atomic and Moleculars Spectra Practical Syllabus based on theory papers **Chemistry** Inorganic Chemistry Organic Chemistry Physical Chemistry Practical Syllabus based on theory papers **FOUNDATION COURSES**	Analysis Linear Programming Numerical Methods and Fundamentals of Computer **Physics** Relativity and Statistical Physics Solid State & Nuclear Physics Solid State Electronics Practical Syllabus based on theory papers **Chemistry** Inorganic Chemistry Organic Chemistry Physical Chemistry Practical Syllabus based on theory papers **QUALIFYING COURSES** Sports

FOUNDATION COURSES Bhartiya Sanskriti Evam Rashtra Gaurav **QUALIFYING COURSES** Environmental Studies Sports & Physical Education	A candidate will have to select one of the following foundation courses:- 1 Language Communication and Writing Skill : (I) Hindi Or (II) English Or (III) Sanskrit **QUALIFYING COURSES** General Awareness Sports & Physical Education	

Learning and Outcomes of M.Com.

M.com	A vast four-semester post-graduate program affiliated with CCS University; Meerut expands the needs in commerce education at all levels and provides the necessary workforce to industry, trade, Govt, and private enterprises. After completionof M.Com.; candidate can choose to work in job profile option available to them depending on their caliber and interest area such as accountant, auditor, consultant, cs, ca, business analyst, finance officer, sales analyst, tax accountant, stockbroker, economist and so on to explore. The candidates will always have exciting profiles to work on as they play to their strengths.
Business Organisation	Ability to understand business organization concepts, basic laws and norms to apply basic principles to solve business and industry-related problems.
Statistical Analysis	Students understand the importance of data analysis and learn hypothesis through various parametric and non-parametric tests.
Research Methodology	Students understand the various strategies and how & why to formulate, implement and evaluate these strategies in the organizations.
Research Methodology	The students understand the basic of research and its formulation and know about the formation of hypothesis and sampling.
Taxation	Students get practical exposure in computing taxation of companies and corporate tax planning. They also understand the ways of computing GST and ITC.
Financial Management	Students understand the concept of financial management, financial decision making anf financial planning process.
Corporate Financial Planning	Students can interpret and analyze the corporate financial reporting.