

## 1.1.1 Programme Outcomes and Programme Specific Outcomes

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NAAC – SSR Cycle IV

SIGC

### SHRIMATI INDIRA GANDHI COLLEGE, TRICHY-2.

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#### **ARTS**

##### **DEPARTMENT OF ENGLISH**

- **B.A ENGLISH**

##### **DEPARTMENT OF TAMIL**

- **B.Litt. TAMIL**
- **M.A TAMIL**
- **M.Phil., TAMIL**

##### **DEPARTMENT OF BUSINESS ADMINISTRATION**

- **B.B.A**

##### **DEPARTMENT OF BANK MANAGEMENT**

- **B.COM. BANK MANAGEMENT**

##### **DEPARTMENT OF ECONOMICS**

- **B.A ECONOMICS**

##### **DEPARTMENT OF MANAGEMENT STUDIES**

- **MASTER OF BUSINESS ADMINISTRATION**
- **M.Phil., MANAGEMENT**

##### **DEPARTMENT OF SOCIAL WORK**

- **MASTER OF SOCIAL WORK**
- **M.Phil., SOCIAL WORK**

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### **SCIENCE**

#### **DEPARTMENT OF BIOCHEMISTRY**

- B.Sc., BIOCHEMISTRY
- M.Sc., BIOCHEMISTRY

#### **DEPARTMENT OF CHEMISTRY**

- B.Sc., CHEMISTRY

#### **DEPARTMENT OF COMPUTER SCIENCE**

- B.Sc., COMPUTER SCIENCE
- M.Sc., COMPUTER SCIENCE
- M.Phil., COMPUTER SCIENCE
- B.Sc., INFORMATION TECHNOLOGY
- M.Sc., INFORMATION TECHNOLOGY
- BACHELOR OF COMPUTER APPLICATION
- MASTER OF COMPUTER APPLICATION

#### **DEPARTMENT OF FASHION TECHNOLOGY & COSTUME DESIGNING**

- B.Sc., FASHION TECHNOLOGY & COSTUME DESIGNING

#### **DEPARTMENT OF HOSPITAL ADMINISTRATION**

- M.Sc., HOSPITAL ADMINISTRATION

#### **DEPARTMENT OF MATHEMATICS**

- B.Sc., MATHEMATICS
- M.Sc., MATHEMATICS
- M.Phil., MATHEMATICS

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### **DEPARTMENT OF MICROBIOLOGY**

- B.Sc., MICROBIOLOGY
- M.Sc., MICROBIOLOGY
- M.Phil., MICROBIOLOGY

### **DEPARTMENT OF PHYSICS**

- B.Sc., PHYSICS
- M.Sc., PHYSICS

### **COMMERCE**

### **DEPARTMENT OF COMMERCE**

- **B.COM**
- **B.COM(C.A)**
- **M.COM**
- **M.Phil**

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### **Programme Outcomes (POs)**

#### **UNDERGRADUATE**

- Undergraduate students are ardently engaged in learning and applying new ideas in a different manner in order to acquire employability/ self-employment.
- Undergraduate students are motivated to take up higher learning programmes.
- Undergraduate students are made to be competent and socially responsible citizen of India.
- Undergraduate students are to be exposed to technical, analytical and creative skills.
- Undergraduate students are to be imparted with a broad conceptual background in the Biological sciences / Computing sciences / Languages and culture /
- Management studies / Physical sciences.
- Under Graduate students are encouraged to respond to the stakeholders and to the changes in societal and national needs through creativity, innovation and feedback.
- Under Graduate students are practiced to be honest, self-disciplined, and dedicated in their deeds.

#### **POSTGRADUATE**

- Graduates are prepared to be innovators, entrepreneurs and educated to be employable in various sectors such as Private, Government and Research organizations.
- Graduates are trained to develop and adopt new technologies in their own discipline.

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- Graduates are groomed to engage in lifelong learning process by exploring knowledge independently
- Graduates are framed to design and conduct experiments/ demonstrate/ create models to analyze and interpret data.
- Graduates ought to have the ability of effectively communicating the findings of Biological Sciences / Computing Sciences / Languages and Culture /Management Studies/ Physical Sciences/ and to incorporate with existing knowledge.

### **MASTER OF PHILOSOPHY**

- Scholars are to be adopted with a new paradigm of self-learning in the form of review of earlier knowledge acquired.
- Scholars are brought to light from the previous investigation completed to the newer thrusts of knowledge and implementation in research.
- Scholars are trained to design, implement and evaluate secured information (hard and soft) systems with assured quality and efficiency.
- Scholars are to be oriented towards becoming globally competent.

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### **PROGRAMME SPECIFIC OUTCOMES**

#### **DEPARTMENT OF ENGLISH**

#### **B.A ENGLISH**

- The basic aim in pursuing B.A. English Literature is to think creatively and analytically about the English language in its varied forms.
- This requires critical Listening, Speaking, Reading and Writing as an effective basis of literary inquiry in association with literary contexts.
- These skills include clear expression and sound mechanics that can be practiced through creative writing, research and critical argument.
- It also employs understanding of literature as a basis of literary inquiry.
- These contexts include: the influences of culture, race and gender, genre, literary traditions and historical periods: literary production and the insights of literary theories.
- All the above outcome are developed through class discussion including film, visual media and performance.
- An English language-focused degree will train students to analyze the working of the English language outside literature, including language-based communication in all kinds of forms and contexts.
- B.A. English degree can lead to a wide range of career. The graduates can work in areas such as professional writing, publishing, teaching, IT, law (by conversion course), education policy, event management, leisure and tourism management, marketing and journalism. There are also more scopes to related postgraduate courses.

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### **DEPARTMENT OF TAMIL**

#### **B.Litt. TAMIL**

- Knowledge of Tamil Language and its history, ancient literary works belonging to the Sangam era.
- Development of listening, reading, writing & speaking skills in proper Tamil.
- Use of Tamil in writing poems, creating literary works, writing literary criticisms, report writing and oratorical exercises.
- Appreciation of Tamil linguistics and Tamil heritage.
- Use of Tamil in contemporary forms.

#### **M.A TAMIL**

- Knowledge of the complex forms of Tamil literature and Poetry.
- Advanced linguistics forms of Tamil language as found in ancient Tamil scriptures.
- Historical and Archaeological forms of Tamil script and products.
- Comparative analysis of ancient and modern literature.

#### **M.Phil., TAMIL**

- Critical analysis of Tamil to bring out their relevance to society, culture and civilizations.
- Techniques to collect information for research from ancient and modern works.
- Presentation of the analysis, study of research topics for further use by research scholars.

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### **DEPARTMENT OF BUSINESS ADMINISTRATION**

#### **B.B.A**

- To build human talent for self enhancement and also for the cause of society.
- Empowering students with education and employment as well as charge our students with social responsibilities

### **DEPARTMENT OF BANK MANAGEMENT**

#### **B.Com. BM**

- Develop a critical awareness and understanding of the main functional areas of Bank Management.
- Understand banking principles, importance of banks in building the economy and types of banks and their role in the financial sectors.
- Emerging technological trends in the banking sector, and the role of new products and procedures used in digital banking.
- Impact of digitalization in bank management.
- Principles of entrepreneurship, Organization and Management.
- Application of Management and banking principle in professional areas like CA, ICWA, CFA and ACS.

### **DEPARTMENT OF ECONOMICS**

#### **B.A ECONOMICS**

- To able to understand basic concepts of Economics to able to analyze economic behaviour in practice the ability to analyze historical and current events from an economic perspective.
- To create students ability to suggest of the various economic problems.



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- The ability to write clearly expressing an economic point of view.
- To understand the significance of economic in life, society and the world.
- Students will be able to define fiscal and monetary policies and assess how these affect the economy.
- By the end of the course students will be able to apply supply and demand analysis to examine the impact of government regulation.
- The students will be able to explain the concept of gross domestic product, inflation and unemployment, and how they are measured.
- Students will be able to analyze the economics and institutional arrangements of specific regions, countries, organizations, localities, industries or firms.

### **DEPARTMENT OF MANAGEMENT STUDIES**

#### **MASTER OF BUSINESS ADMINISTRATION**

- Graduate students are able to synthesize the knowledge skills and tools acquired in the program within a real business they must be able to design themselves
- Graduate students are able to excel in their chosen career paths, by learning on how to live adapt and manage business environmental change
- Graduate students will have an integrated knowledge of and demonstrated ability to perform as management professionals.
- Graduate students will have positive perspectives and skills that create productive managerial leaders.

#### **M.Phil., MANAGEMENT**

- Students were trained for aspiring advanced research in the field of corporate firm.

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- Understand the relevance and the role of research in management
- Acquire knowledge reasoning strategies to formulate a research problem.
- Have skill in drafting research design and evaluating various types of sampling methods in different area of management studies like human resource management, marketing management etc.

### **DEPARTMENT OF SOCIAL WORK**

#### **MASTER OF SOCIAL WORK**

- Demonstrate ethical and professional behavior acquire knowledge in human rights and social, economic, environmental justice.
- Develop skills for culturally sensitive generalist social work practice
- Ability to practice personal reflection and self-correction to assure continual professional development
- Ability to use supervision and consultation
- Ability to recognize and manage personal values

#### **M.Phil., SOCIAL WORK**

- Ability to critically analyses monitor, negotiate, mediate, and advocate for client
- Should have the ability to solve social, economic problems and to deliver effective social services
- Ability to collaborate with colleagues and clients for effective policy action
- Ability to critique and apply knowledge to understand person and environment
- Ability to tolerate ambiguity in resolving ethical concepts and apply strategies to reason out principled moral decision.

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### **DEPARTMENT OF BIOCHEMISTRY**

#### **B.Sc., BIOCHEMISTRY**

- Understand the basis of macromolecules and their structure.
- Facilitate placement in various clinical laboratories and biological research institutes.
- Contribute betterment of the society by inculcating skill in healthcare sector.
- Integrate and apply the knowledge in Analytical biochemistry to undertake a career as a Quality control in water analysis, various food, cosmetics, bio-fertilizer Industries at national and Global level.
- Acquire necessary knowledge and skills to undertake a career in Medical coding, Medical Transcription, Healthcare scientists, Physician associate, forensic scientist.

#### **M.Sc., BIOCHEMISTRY**

- Graduates are trained to study and groomed to carry on research in the Analytical techniques, Human physiology, Enzymes and enzyme Technology, Endocrinology, Immunology, Clinical Biochemistry, Biotechnology, Genetic Engineering, Herbal Medicine, Bioinformatics.
- Programme pave way to the career opportunities like R&D, Medical coder, Health care scientists, Physician associate, forensic scientist, Clinical biochemists, quality control in various food, cosmetics, bio-fertilizer Industries at nationally and Global level
- Graduates are encouraged to design and conduct experiments, to analyze and interpret biological problems, behind the research process.
- Graduates ought to have the ability of effectively communicating.

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### **DEPARTMENT OF CHEMISTRY**

#### **B.Sc., CHEMISTRY**

- Students will have a firm foundation in the fundamentals & applications of current chemicals & scientific theories including those in Analytical, Inorganic, Organic & Physical Chemistries.
- Students will be able to design & carryout scientific experiments as accurately record & analyse the results of such experiments.
- Students will be able to examine new areas of research in both Chemistry & allied fields of Science & technology.
- Students will regard the central role of Chemistry in our society & use this as a basis for ethical behavior in issues facing Chemist including an understanding of safe handling of chemicals
- Students will be able to explain why Chemistry is an inherent activity for addressing social, economic & environmental problems.

### **DEPARTMENT OF COMPUTER SCIENCE**

#### **BACHELOR OF COMPUTER APPLICATION**

- Jobs in multinational companies as Software Developer, System Programmer, Web Designer, Network Analyst, Test Engineer, DBA, Technical Support Engineer, Network Administrator, Quality Assurance etc.
- Jobs in Government undertakings and Banking Sector.
- Jobs in Central Services and Defense Services (Air Force, Army, Navy).

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### **B.Sc., INFORMATION TECHNOLOGY**

On completion of the B.Sc. (Information Technology) students are able to:

- Serve as Programmer or Software Engineer with sound knowledge of practical and theoretical concepts for developing software's.
- Serve as Computer Engineer with enhanced knowledge of computers and its building blocks.
- Work as Systems Engineer and System integrator.
- Serve as System Administrator with thorough knowledge of DBMS.
- Give Technical Support for various systems. Work as Support Engineer and Technical Writer.
- Work as Consultant and Management officers for system management.
- Work as IT Sales and Marketing person.
- Serve as IT Officer in Banks and cooperative societies.
- Work as DTP Operator in small scale industries.
- Serve as Web Designer with latest web development technologies.

### **M.Sc., INFORMATION TECHNOLOGY**

**To enable the student to emerge as**

- An expert in Software Requirement Analysis, Design, Coding, Testing and Documentation.
- System/Network Administrator with depth knowledge in Network design & analysis, Network security and Software defined networks.
- Specialist in Data mining, embedded systems, Mobile computing, distributed computing, Image processing, Pattern recognition, Virtualization techniques and Cloud Computing.

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- Competent and complete software professional to meet the requirement of corporate world and Industry standard to provide solutions to industry, society and business.
- Analyst who can apply latest technologies who can analyze and synthesize computing systems through quantitative and qualitative techniques to solve problems in the areas of Information Technology.
- A thorough and practical expert in the use of state of the art techniques for developing Software based systems.

### **B.Sc., COMPUTER SCIENCE**

- Provides basic knowledge on core concepts of Computer Science.
- Ability to solve problems using programming languages and software tools.
- Capable of analyzing, designing, developing, testing and implementing software systems.
- Acquire skill in Mathematics, Electronics and Computer Science courses.
- Empowered with analytical mind and critical thinking.
- Ability to communicate the technical aspects of systems with peers and customers.
- Possess employability and entrepreneurship skills.

### **M.Sc., COMPUTER SCIENCE**

- Basic fundamental knowledge in Mathematical problem solving and in depth knowledge in computer science.
- An ability to identify, analyze, design, optimize and implement system solutions using appropriate algorithms of varying complexity.
- Basic knowledge in hardware/software methods and tools for solving real-life and R&D problems with an orientation to lifelong learning.

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- An ability to work in multidisciplinary teams in small and large scale projects by utilizing modern software tools and emerging technologies to develop complex products for the societal needs.

### **M.Phil., COMPUTER SCIENCE**

- Scholars are trained in teaching using ICT methods and computer aided learning and evaluation.
- Scholars gain in depth understanding of Techniques and algorithms and use them to do their research work in Data mining, network security, mobile communications
- Acquire research skills for applying Computational techniques in the interdisciplinary field of mathematics and biology.

### **DEPARTMENT OF FASHION TECHNOLOGY AND COSTUME DESIGNING**

#### **B.Sc., FT & CD**

- Programmes prepared students to pursue careers as designers, Design managers, Merchandisers, Freelance design consultants, forecasting & fashion trends forum organizers, Fashion communication journalist, costume designers in Textile industries.
- Fashion technology on the other hand based on the application of information technology. It deals with various aspects of fashion designing, printing, crafting cloth material from products. It teaches the knowledge of machinery which goes into making a cloth.
- Craft & Designing skills are emphasized in fashion designing through theoretical knowledge.

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- Adapt their artistic abilities to support their future career.
- Assess, propose & apply various techniques related to drafting, draping & constructing of garment.
- Develop the systematic, critical approach to problem solving at all levels of the design process
- Relate the design process to the appropriate manufacturing process
- Articulate design ideas verbally, visually and digitally
- Work alongside expert, professional faculty and guest mentors to become educated and practiced in all aspects of the design process
- To opt for challenging jobs of production managers, export managers, merchandisers and quality controllers in domestic and garment export industry.

### **DEPARTMENT OF HOSPITAL ADMINISTRATION**

#### **M.Sc., HOSPITAL ADMINISTRATION**

- Prepare the students for the administrative and managerial roles in the hospital sector
- Acquire knowledge to find job opportunities across the spectrum of health care services like clinics, hospitals, nursing home, medical college etc.
- Attain skill to understand the management of medico-legal challenges facing the healthcare industry

### **DEPARTMENT OF MATHEMATICS**

#### **B.Sc., MATHEMATICS**

- Demonstrate basic manipulative skills in algebra, geometry, trigonometry, and beginning calculus



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- Apply the underlying unifying structures of mathematics (i.e. sets, relations and functions, logical structure) and the relationships among them
- Demonstrate proficiency in writing proofs
- Communicate mathematical ideas both orally and in writing
- To apply critical thinking skills to solve problems that can be modeled mathematically.
- To critically interpret numerical and graphical data.
- This combination of mathematics and accounting skills makes graduates from this programme very attractive to a wide range of employers.
- To apply mathematical methods and ideas to problems in mathematics, sciences, computer science, actuarial science, statistics—virtually any area of inquiry.

### **M.Sc., MATHEMATICS**

- 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
- To read and construct mathematical arguments and proofs.
- To communicate a depth and breadth of mathematical knowledge, both orally and in writing.
- Strengthening the knowledge of mathematical concept using models software and ICT enabled teaching.

### **M.Phil., MATHEMATICS**

- Investigate and solve unfamiliar math problems.
- To use computer technology appropriately to solve problems and to promote understanding.

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- To apply mathematical knowledge to a career related to mathematical sciences.
- Trained the learners to undertake research career.

### **DEPARTMENT OF MICROBIOLOGY**

#### **B.Sc., MICROBIOLOGY**

##### **On the completion of Microbiology course**

- The students acquire in depth knowledge in both basic and applied fields of Microbiology such as Morphology, Physiology and Genetic Nature of microbes including Bacteria, Fungi, Algae, Viruses and Protozoa.
- Application oriented knowledge are also inculcated in various fields such as Pharmacy, Medicine, Clinical research, Agriculture, Dairy industry, Waste industry, Nanotechnology and Chemical technology.

#### **M.Sc., MICROBIOLOGY**

- Microbiologist work in many different job areas in a variety of different job roles.
- They can make carriers in research and non-research field.
- Microbiologist can get opportunities in various fields.
- Graduates will acquire knowledge on the production of GMOs which play a significant role in field of agriculture and medicine.
- Graduates will learn the principle and methodology of thesis writing and research publications.

#### **M.Phil., MICROBIOLOGY**

- Post Graduates will acquire basic knowledge on statistics and learn its application in microbiological studies.

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- Post Graduates will acquire knowledge on the production of GMOs which play a significant role in field of agriculture and medicine.
- Post Graduates will learn the principle and methodology of thesis writing and research publications.
- Post Graduates will acquire knowledge on bioinformatics and nanotechnology.
- Post Graduates will learn the popular tools in bioinformatics for sequence analysis and molecular visualization.

### **DEPARTMENT OF PHYSICS**

#### **B.Sc., PHYSICS**

After completion of the course the students will be able to

- Define physical principle underlying a wide selection of physical phenomenon
- Describe and critically evaluate the current state of the art in selected area of physics like classical mechanics, quantum mechanics, electro magnetism, optics, electronics etc.
- Students should have capable of oral and written scientific communication and they discover of physics concepts in the discipline such as mathematics, Computer science etc.
- Students will develop proficiency in the acquisition of data using a variety of laboratory instrument and in the analyses and interpretation of such data.

#### **M.Sc., PHYSICS**

- Learn the structure of solid material and their different physical properties along with the metallurgy, cryogenics, electronics and material science.

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- Understand the fundamental theory of nature of atomic particles
- Demonstrate skills in use of computer for control data acquisition and data analyses in experimental investigation
- Select, interpret and analyse the complex physical problems and its solution using mathematical techniques
- Provide systematic understanding of core physical concept, principle and theories along with the application.

### **DEPARTMENT OF COMMERCE**

#### **B.COM.**

- To provide conceptual knowledge and application skills in the domain of commerce studies
- To develop the studies analytical and decision making skills.
- To pursue professional courses like CA, ICWA, CFA, ACS and MBA.
- To enable students to become competent and competitive and be assured of good careers and job placements.
- To develop entrepreneurship and managerial skills.
- To develop ethical business professionals with the broad understanding of business from an inter disciplinary prospective.

#### **B.COM (CA)**

- To provide conceptual knowledge and application skills in the domain of commerce studies
- To develop the studies analytical and decision making skills.
- To pursue professional courses like CA, ICWA, CFA, ACS and MBA.

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- To enable students to become competent and competitive and be assured of good careers and job placements.
- To develop entrepreneurship and managerial skills.
- To develop ethical business professionals with the broad understanding of business from an inter disciplinary prospective.
- To provide the students about computing principles and business practices in software, public and private sectors.
- To analyse and apply the latest technologies to solve problem in the areas of computer applications.
- To analyse and synthesise computing systems through quantitative and qualitative techniques.

### **M.COM**

- To pursue advance studies and research in the areas of commerce such as M.Phil & Ph.D programmes.
- To allow M.Com graduates to choose further advanced studies in different specialization of commerce such as Accounting , Taxation, Finance , Human Resource, Marketing etc.,
- To enable students to provide wide range of career dealing with flow of money from Accountant to investment banker, Money manager to personal finance consultant.
- To enable student to qualify UGC –NET, SET &JRF examinations so that they can take up the work of teaching research of high quality.
- To impart entrepreneurial skills for starting new business ventures.

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### **M.Phil., COMMERCE**

- This programme has been designed to develop critical, analytical, cognitive skills among the students.
- The concepts, process and the requirements for starting up and carrying on a business or a profession are incorporated in the courses to develop entrepreneurial qualities among the students.
- Employability skills required to make the students efficient and disciplined employees in business and professional organizations are embedded in the courses of this programme.
- Opportunities are created through the courses to enhance the communication and presentation skills among the students.
- The methods of teaching and learning the courses will lead the students in building up the teamwork skills necessary for the students to work as a team of administrators, managers and employees.
- Courses have been prepared to infuse the sense of social responsibilities and to apply in business and professions the principles of ethics.
- Leadership qualities are enhanced by making the students organize events learnt and understood through the courses in the programme.