

SRI SANKARA ARTS AND SCIENCE COLLEGE

(Autonomous)

Enathur, Kanchipuram – 631 561.

Programme Specific Outcome (PSO)

DEPARTMENT OF MATHEMATICS

B. SC MATHEMATICS

- PSO-1.** To getting critical and analytic thinking in theoretical aspect
- PSO-2.** To solving the problem skills in practical aspect
- PSO-3.** To improve the knowledge, team work presentation skill among the students to do their higher studies in mathematics
- PSO-4.** To understand the concept of Mathematics and it help to clear the NET/SET/GATE Exams
- PSO-5.** To getting new ideas basic learning and applying in order to employability.

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DEPARTMENT OF PHYSICS

B. SC PHYSICS

- PSO-1.** This course provides the students to acquire the fundamental concepts of Physics, including the major premises of Mechanics, Thermal Physics, Optics, Atomic and Molecular physics, quantum mechanics, Electronics etc. and also students are also expected to develop a written and oral communication skills in communicating physics-related topics.
- PSO-2.** Apply conceptual understanding of the physics to general real-world situations and describe the methodology of science and the relationship between observation and theory.
- PSO-3.** Students should learn how to design and conduct series of experiments demonstrating their understanding of the scientific method and processes and also expected to have an understanding of the analytical methods.
- PSO-4.** Apply one's knowledge of Physics theoretical and laboratory skills to new/unfamiliar contexts to identify and analyse problems and issues and solve complex problems in Physics and related areas with well-defined solutions.
- PSO-5.** The outcome of the course would enlighten the students with the fundamental of Classical and modern physics to grow as a Medical physicist, Technical and scientific assistant and also prepare them for the competitive exam related to physics for their higher studies.

M. SC PHYSICS

- PSO-1.** This course provides the students to develop proficiency in various mathematical concepts for the proper understanding of application in all physical systems especially in Classical and Quantum mechanics, Electromagnetic theory, Statistical Mechanics and Integrated Electronics etc.
- PSO-2.** Ability to apply the classical and quantum principle in the Condensed matter physics, nuclear and particle physics, Materials science, Energy physics, Crystal growth and Nano science for various technological applications.
- PSO-3.** Learn the operation of the different electronic and physical devices such as microprocessor, microcontroller, laser and optical instruments. Learn to minimize contributing variables and recognize the limitations of equipment. Develop the following experimental tools: Numerical model simple physical systems using Euler's method, curve fitting, and error analysis.
- PSO-4.** Learning of laboratory skills, enabling measurements in a physics and electronics laboratory, analysis of the measurements and also expected to have an understanding of the analytical methods required to interpret and analyse results and draw conclusions as supported by their data.
- PSO-5.** The outcome of the course would enlighten the students with the in-depth Knowledge of Classical and quantum physics, Electromagnetic theory, Statistical Mechanics and Integrated Electronics to grow as a Physicist and also prepare them for the competitive exam such as CSIR, GATE related to physics for their higher and research studies

DEPARTMENT OF BIOCHEMISTRY

B. SC BIOCHEMISTRY

- PSO-1.** Comprehending fundamental concepts in Biochemistry to enhance knowledge in theoretical aspects.
- PSO-2.** Understanding and acquiring skills in performing laboratory experiments.
- PSO-3.** Inculcating research motivation among student community and boosting them to pursue higher studies in Biochemistry
- PSO-4.** Contribution to the betterment of the student community by inculcating sound knowledge in the clearance of competitive exams.
- PSO-5.** Facilitate the development of skills based on current trends in versatile fields by offering Job oriented certificate courses and Value-added courses.

M.SC BIOCHEMISTRY

- PSO-1.** Ability to acquire detailed knowledge and understanding the principles and theories of Biochemistry.
- PSO-2.** Apply knowledge and understanding of Biochemistry to the solution of problems in life sciences and practical areas of the subject.
- PSO-3.** Inducing research enthusiasm among student community and encouraging them to pursue higher studies in Biochemistry.
- PSO-4.** Compare and contrast the breadth and depth of scientific knowledge in the broad range of fields to enhance the ability of students to achieve clearance in competitive exams.
- PSO-5.** Developing the professional skills based on current trends in versatile fields by offering Job oriented certificate courses and Value-added courses.

DEPARTMENT OF COMPUTER SCIENCE

B.SC COPUTER SCIENCE

- PSO-1.** Acquainting students with basic software and hardware skills, laying a strong foundation for applied knowledge in the field of computer science.
- PSO-2.** Imbibing students with hands-on practical sessions, catering to the latest demands in the IT field making them more employable.
- PSO-3.** Equipping students with state-of-the-art technologies and cutting-edge solutions to motivate student's foray into Entrepreneurship.
- PSO-4.** Augmenting students with necessary skills by training them for various competitive exams like NET, SET and other exams for career prospects.
- PSO-5.** Inculcating students with a drive and passion for Research aptitude by motivating them to venture into Advanced Research

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DEPARTMENT OF COMPUTER APPLICATIONS

BCA

- PSO-1.** Identify and define the concepts of computer Programming.
- PSO-2.** Illustrate the constructs of computer Programming
- PSO-3.** Comprehending the technical skill
- PSO-4.** Illustrate the technical skills
- PSO-5.** Develop practical skills to provide solution to society, industry and business

DEPARTMENT OF MICROBIOLOGY

B. SC MICROBIOLOGY

- 1:** Enriching the students with detailed knowledge, principles and significance of microbiology.
- 2:** Demonstrating key practical skills / competencies in life sciences with effectively and accurately.
- 3:** Developing research aptitude among the student community and encouraging them to pursue higher studies in Life sciences.
- 4:** Designing the syllabus in the manner which enables students to clear competitive exams in the life sciences
- 5:** Developing the professional skills based on current trends in versatile fields by offering Job oriented certificate courses and Value-added courses for making the students knowledgeable.

M.SC MICROBIOLOGY

- 1:** Enriching the students with detailed theoretical knowledge, principles and importance of microbiological field.
- 2:** Demonstrating key practical skills / competencies in life sciences and understanding of microbiology to the solution of problems in life sciences and practical areas of the subject.
- 3:** Developing research aptitude among the student community and encouraging them to pursue higher studies and research in the field of Life sciences.
- 4:** Designing the syllabus in the manner which enables students to clear competitive exams in the life sciences
- 5:** Developing the professional skills based on current trends in versatile fields by offering Job oriented certificate courses and Value-added courses for making the students knowledgeable in the area of Microbiology.

DEPARTMENT OF BIOTECHNOLOGY

B.SC BIOTECHNOLOGY

- PSO-1.** Enriching the Biotechnology knowledge in both theoretical and practical aspects at under graduate level
- PSO-2.** Developing research aptitude among the student community and encouraging them to pursue higher studies in Biotechnology
- PSO-3.** Designing the syllabus in the manner which enables students to clear competitive exams in the life sciences
- PSO-4.** Developing the student skills based on current trends in Biotechnology field by offering Job oriented certificate courses and Value-added courses.

M. SC BIOTECHNOLOGY

- PSO-1.** Enriching the Biotechnology knowledge in both theoretical and practical aspects at post graduate level
- PSO-2.** Developing research aptitude among the student community and encouraging them to pursue higher studies in Biotechnology
- PSO-3.** Designing the syllabus in the manner which enables students to clear competitive exams in the life sciences
- PSO-4.** Developing the student skills based on current trends in Biotechnology field by offering Job oriented certificate courses and Value-added courses.

DEPARTMENT OF COMMERCE

B. COM

- PSO-1. Understand the application of business knowledge in both theoretical and practical aspects and Understand the nature and basic concepts of Finance and accounting
- PSO-2. Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
- PSO-3. Determine the procedures, schedules and apply their research ability on preparing financial, final statements.
- PSO-4. Learners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.
- PSO-5. Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

M. COM

- PSO-1. Understand the nature and advanced concepts of Finance and accounting.
- PSO-2. Analyze the trade and economic policies which have influence over the business.
- PSO-3. Determine the procedures, schedules and apply their research ability on preparing financial final statements.
- PSO-4. Understand the application of business knowledge in both theoretical and practical aspects.
- PSO-5. Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA, NET/SELT, JRF and other courses.

DEPARTMENT OF BUSINESS ADMINISTRATION

B. B. A

- PSO-1. Graduates will understand various theories related to business (Management, Accounting, Economics, Marketing, HR, Finance and International Business)
- PSO-2. Graduates will be equipped with Conceptual Thinking, Analytical Thinking and Problem Solving in Finance, Marketing, HR, Economics and Management
- PSO-3. Graduates will develop critical thinking and foundation of Ethical principles and legal regulations related to organization.
- PSO-4. Graduates equip with latest trends/Advancement/Technological/Process up gradation happening in the current industrial scenario
- PSO-5. Emerge as an Entrepreneur & groom with innovative skills & make them better manager
- PSO-6. Acquire Communication Skills, Research, Technological skills needed to analyse business situation. Prepare & present a management report & take strategic decisions.

M. B. A

- PSO-1.** Prepare graduates to become a successful marketing professional in the current industrial scenario from developing the presentation skills, understanding the industrial needs and formulating suitable strategy in marketing both domestic and Internationally.
- PSO-2.** Developing the graduates in all marketing areas such as market research, new product development, new product launch, promotion and distribution strategies.
- PSO-3.** Preparing graduates with an exposure of opportunities in various industries and segments.
- PSO-4.** Grooming the students as a Human Resource professional and develop the graduates with an exposure of Recruitment, Selection and Compensation process.
- PSO-5.** Developing the graduates with knowledge about various laws and practices followed in the industries.

- PSO-6.** Make students aware of theoretical underpinnings of development in finance and also gives them the opportunity to implement class room learning through various live projects.
- PSO-7.** Impart skills to use finance for growth and development process that India is presently witnessing.
- PSO-8.** Developing students with knowledge about the various economics and the theories and concepts involved in it.
- PSO-9.** Make graduates with and knowledge about the analytical skills and various research techniques.
- PSO-10.** Preparing graduates with various laws related with Business operations.
- PSO-11.** Make Students aware of Database oriented concepts in relation to business environment
- PSO-12.** Develop the students with knowledge of e-business, Software Development and Decision-making tools