



Kuvempu University

SAHYADRI SCIENCE COLLEGE, SHIMOGA-577 203

(A Constituent College of Kuvempu University)

Phone:08182-240435

E-mail:sahyadriscience@gmail.com

Web: www.kussc.ac.in

PROGRAMME

OUTCOME



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BACHELOR OF SCIENCE (B.SC)

PO1, Scientific knowledge: Apply the knowledge of science and its specializations to solve the complex scientific problems.

PO2, Problem analysis: Identify, formulate and analyze complex scientific problems reaching Substantiated conclusions using principles of science.

PO3, Design/development of solutions: Define and solve various critical issues related with public health, safety, cultural, Societal and environmental issues in the benefit of society and human beings.

PO4, Conduct investigations of complex problems: Use research based methods including design of experiments, analysis and interpretation of data to logical conclusions.

PO5, Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern scientific and IT tools

Raj-a-N

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including prediction and modelling complex scientific activities with an understanding of limitations.

PO6, The science and society: Apply the reasoning within the contextual knowledge to serve the society in all horizon such as education, medicines, environment and industry with their latest update of scientific and professional temperament.

PO7, Environment and sustainability: Understand the impact of the professional scientific solutions in the societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable developments.

PO8, Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of scientific practice.

PO 9, Individual and team work: Function effectively as an individual independently and as a member or leader in diverse teams and in multidisciplinary settings.

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PO 10, Communication: Communicate effectively on complex scientific activities with the science community and with society at large such as give and receive clear instructions.

PO11, Project management and finance: Demonstrate knowledge and understanding of scientific management principles and apply those to one's own work as a member and leader of a team to manage projects in multidisciplinary environments.

PO12, Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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BACHELOR OF COMPUTER APPLICATIONS (BCA)

PO1. Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity.

PO2. Problem Solving: Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.

PO3. Design and Development of Solutions: Ability to design and development of algorithmic solutions to real world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.

PO4. Programming a computer: Exhibiting strong skills required to program a computer for various issues and problems of day-to-day applications with thorough knowledge on programming languages of various levels.

PO5. Application Systems Knowledge: Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.

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PO6. Modern Tool Usage: Identify, select and use a modern scientific and IT tool or technique for modeling, prediction, data analysis and solving problems in the area of Computer Science and making them mobile based application software.

PO7. Communication: Must have a reasonably good communication knowledge both in oral and writing.

PO8. Project Management: Practicing of existing projects and becoming independent to launch own project by identifying a gap in solutions.

PO9. Ethics on Profession, Environment and Society: Exhibiting professional ethics to maintain the integrality in a working environment and also have concern on societal impacts due to computer-based solutions for problems.

PO10. Lifelong Learning: Should become an independent learner. So, learn to learn ability.

PO11. Motivation to take up Higher Studies: Inspiration to continue educations towards advanced studies on Computer Science.

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M.SC. BIOTECHNOLOGY

- PO1:** Demonstrate knowledge for in-depth analytical and critical thinking to identify, formulate and solve the issues related to Biotechnology Industry, Pharma industry, Medical or hospital related organizations, Regulatory Agencies, & Academia.
- PO2:** Develop an ability to solve, analyze and interpret data generated from experiments done in project work or practical courses.
- PO3:** Demonstrate skills to use modern analytical tools/ software/ equipments and analyze and solve problems in various courses of biotechnology.
- PO4:** Appreciate and execute their professional roles in society as biotechnology professionals, employers and employees in various industries, regulators, researchers, educators and managers.
- PO5:** Adopt code of ethics in professional and social context and demonstrate exemplary professional, ethical and legal behaviors in decision making.
- PO6:** Apply written and oral communication skills to communicate effectively in healthcare, industry, academia and research.
- PO7:** Develop skills, attitude and values required for self-directed, lifelong learning and professional development.

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M.SC. INDUSTRIAL CHEMISTRY

PO 1: Students be well prepared for successful careers in professions such as research & innovation in industry/government organizations related to Industrial domains.

PO 2: Students will be academically prepared to provide feasible and sustainable solutions for real-life problems and become licensed professional chemists in due course and will contribute effectively in serving the society.

PO 3: Students will be engaged in professional activities to enhance their own achievement and simultaneously contribute in service of humankind.

PO 4: Students will be successful in higher education related with industrial domain of Chemistry and management, if persuade.

PO 5: Students nurtured with multidisciplinary knowledge will be a successful leader with quality to handle all kind of diverse circumstances.

Rajesh

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M.SC INTEGRATED CHEMISTRY

PO1: Creative Thinking: Students will be able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems in chemistry. The skills of observations and drawing logical inferences from the scientific experiments will also be developed.

PO2: Interdisciplinary Approach: Students will realize how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments. Also the knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc. can have greatly and effectively influence which inspires in evolving new scientific theories and inventions.

PO3: Personality Development: Students will imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality. They will also realize that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.



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PO4:Skills in research and industrial field: Students will build a scientific temper and will be able to learn the necessary skills to succeed in research or industrial field. In addition they will acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PO5:Communication Skills: Students will develop various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively.

PO6:Environmental monitoring: Students will be able to understand the environmental issues Global warming, Climate change, Acid rain, Ozone depletion and will create awareness in society

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M.SC. PHYSICS

- PO-1:** To prepare students to exhibit quality of excellence, critical thinking, creativity, inventiveness, and self-motivation for life-long learning to handle all kind of diverse situations in interdisciplinary and multidisciplinary environment.
- PO-2:** To produce students who are globally acceptable professionals for government, corporate and research organizations along with skills for entrepreneurial pursuits in multidisciplinary areas.
- PO-3:** To groom students who can demonstrate technical competence in the field of Physics and develop solutions to the complex problems.
- PO-4:** To produce students who can ethically lead and work as a part of team towards the fulfillment of both individual and organizational goals.
- PO-5:** To engage students in professional pursuits to enhance their own achievements along with serving the society at large.
- PO-6:** To enable the students to pursue higher education in physics and allied domains.


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