



NARAJOLE RAJ COLLEGE

(NAAC Accredited 'B' Grade Govt. Aided College)
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Programme Outcomes (POs)

Faculty of Science (UG/General)

The students of Science (DSC) will acquire their theoretical, computational and experimental and scientific knowledge by studying this programme. They will attain the quantitative and predictive understanding of Science in different physical, mathematical, biological and chemical phenomena. It creates their Environmental consciousness. The students will acquire the knowledge on the influence of Science on the modern society as well as different general real-world situations. It creates and enhances the social responsibilities, ethics as well as communication skills among the students. This programme also opens up the career paths to select in many related and sub-related areas like academics, scientific laboratories, instrumentation and industries, etc.

After completion of the programme, the graduates will be capable of-

PO1: **Scientific Knowledge:** Acquiring the scientific knowledge and temperament about the different core branches of science like Physics, Chemistry, Mathematics, Botany, Zoology, Physiology, and Geography, etc.

PO2: **Problem Analysis:** Developing the ability to use skills in their respective science subjects and its related domains of technology for formulating and tackling subject-related problems along with their significance in the day-to-day life.

PO3: **Design & Development of Experimental Skill:** Acquiring their understanding skills and scientific temperament about the different scientific experiments by designing as well as conducting several experimental arrangements for the proper interpretation and analysis of the experimental results and drawing the conclusions by the supporting data.

PO4: **Design & Development of Solutions:** Accumulating their knowledge and skills about the applications of various principles of science along with the numerical and computational techniques for solving subject related problems reaching the authenticated conclusions.

PO5: Conduct Analysis of Complex Problem: Attaining a level of proficiency and intellectually in stimulating/computational knowledge and scientific research based temperament by using research methods including design of experimental set up, the proper interpretation and analysis of the experimental results and drawing the conclusions by the supporting data skill for solving different complex problems of Science as well as real-world problems.

PO6: Understanding of Modern Tools: Attaining a level of proficiency along with accumulating their knowledge and skills about the creating, selecting as well as applications of various appropriate modern scientific experimental and computational tools, modelling techniques for data and error analysis and prediction along with an understanding of limitations.

PO7: Understanding Influence of Science on Society: Comprehending and cultivating an understanding of the influence of Science on the modern society as well as different general real-world situations as well as different physical, mathematical, biological and chemical phenomenon.

PO8: Developing Knowledge on Interdisciplinary Subjects: Developing investigative skills and knowledge on different modern and budding interdisciplinary branches, such as Molecular Biology, Biophysics, Biomechanics, Nanotechnology, Biochemistry, Microbiology as well as Nano-biology, etc. that helps them in their higher studies.

PO9: Environment and Sustainability: Developing the consciousness towards the greenness of the environment and attainment of knowledge on sustainable development of the environment through the subject of Environmental Sciences.

PO10: Ethics: Demonstrating professional behaviour such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behaviour such as fabricating, falsifying or misrepresenting data or committing plagiarism and the ability to identify the potential ethical issues in work-related situations.

PSO10: Communication Skills: Developing communication skills involving the ability to listen carefully, to read texts and research papers analytically and to present complex information in a concise manner to different groups/audiences of technical or popular nature.

PSO13: Career Path Selection: Opening the career paths to select a career in many related and sub-related areas like academics, scientific laboratories, instrumentation and industries, etc.