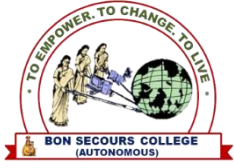


BON SECOURS COLLEGE FOR WOMEN (AUTONOMOUS)



Accredited with A++ Grade by NAAC in Cycle II
Affiliated to Bharathidasan University, Tiruchirappalli
UGC Recognized 2(f) and 12(B) Institution
VILAR BYPASS, THANJAVUR - 613 006, TAMIL NADU

DEPARTMENT OF PHYSICS Programme: M.Sc Physics

PROGRAMME OUTCOMES (POS)

On completion of the programme, the students will be able to

PO1: Scientific Knowledge and Expertise: Demonstrate in-depth understanding of scientific theories, principles, and methodologies within their specialized discipline and recognize its impact on societal advancement.

PO2: Experimental and Problem-Solving Skills: Apply scientific reasoning and laboratory skills to design experiments, analyze data, and develop solutions to complex scientific and technological challenges.

PO3: Research and Innovation: Engage in innovative, interdisciplinary research to address contemporary scientific issues, contributing to advancements in knowledge and technology with a focus on real-world applications.

PO4: Environmental and Ethical Awareness: Act responsibly with a commitment to environmental sustainability, ethical standards in research, and social responsibility in scientific pursuits.

PO5: Digital and Technical Proficiency: Utilize digital tools, programming, and scientific software to conduct advanced research, data analysis, and problem-solving in their field.

PO6: Lifelong Learning and Collaboration: Commit to lifelong learning, fostering teamwork and leadership skills to work effectively in diverse and collaborative scientific environments

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO-1 Acquire in-depth knowledge of core areas in physics such as Classical Mechanics, Quantum Mechanics, Statistical Mechanics, Electromagnetic Theory, and Condensed Matter Physics.

PSO-2 Develop strong analytical and problem-solving skills to formulate and solve complex physical problems using mathematical techniques.

PSO-3 Gain proficiency in designing and conducting experiments, using modern instrumentation and techniques, and analyzing experimental data.

PSO-4 Apply theoretical knowledge to practical and applied areas like Spectroscopy, Electronics, Communication, and Instrumentation, and contribute to interdisciplinary fields.

PSO-5 Apply the profound knowledge of various fields of physics to lead a career in research & entrepreneurships.

PSO-6 Enhance their academic abilities, personal qualities and transferable skills which will give them an opportunity to develop as responsible citizens.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: Enrich learners with in-depth disciplinary knowledge and essential skills to contribute to societal development and transformation.

PEO2: Enhance professional, employability, and entrepreneurial skills to achieve sustainability in a dynamic global environment.

PEO3: Foster values of environmental consciousness and responsibilities, promoting the empowerment and upliftment of rural communities.