



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

DEPARTMENT OF COMPUTER SCIENCE

B. Sc., Computer Science

Vision:

Evolve into a center of excellence for teaching and research in computer science, addressing local and global societal needs and industry demands.

Mission:

- Offer multidisciplinary and interdisciplinary undergraduate, post graduate and research programs with a focus on societal research and industrial needs.
- Provide a conducive environment for learning, fostering the development of efficient employees and successful entrepreneurs.
- Establish strong, solution- oriented industry-academia partnerships for sustainable growth.
- Inculcate ethical values to contribute to holistic nation -building.

PROGRAMME OUTCOMES FOR B.SC., PROGRAMMES

On successful completion of the B. Sc Programme, students will be able to:

PO1: Foundational Knowledge: Apply fundamental principles and methods across Key areas of science and multidisciplinary fields.

PO2: Problem Solving and Analysis: Demonstrate analytical and logical skills to address scientific challenges and requirements.

PO3: Scientific Inquiry and Critical Thinking: Cultivate critical thinking and a scientific temper to evaluate and solve complex problems.

PO4: Effective Communication: Communicate scientific concepts clearly and effectively to diverse audiences.

PO5: Ethics and Sustainable Development: Recognize the importance of ethical responsibility and use technology judiciously to promote sustainability.

PO6: Research and Lifelong Learning: Uphold scientific integrity, engage in research, and commit to continuous learning amid technological advancements.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Ideas of data-based sign in application development and to retrieve the data. **PSO2:** Design and develop small sized applications using databases in the back-end.

PSO3: Understand the basics of database design and its core principles and apply them for application software development

PSO4: Understand data models to build any application software, design a serializable transaction of a database application

PSO5: Design and develop normalized database application. **PSO6:** Develop application software using SQL commands.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Equip students with the essential domain knowledge to thrive in the IT sector. **PEO2:** Offer practical training, hands- on experience, and project work to meet industry demands.

PEO3: Inspire career growth and entrepreneurial skills in a global context.

PEO4: Foster contributions to technological advancements in Information Technology through research.

PEO5: Encourage creativity, the development of innovative ideas, and team work to achieve shared objectives.