

PROGRAM OUTCOMES DEPARTMENT OF PHYSICS On completion of BSc degree in Physics at St. Xavier's College, Mapusa, A student will have obtained	
PO-1	Knowledge: Acquire knowledge of facts and figures related to science, understand basic concepts, scientific theories, and fundamental principles.
PO-2	Analytical and Practical Skills: Acquire the skill of handling scientific instruments, making sharp observations, evaluating information, identifying patterns, performing experiments, and drawing valid logical inferences, thereby applying theoretical knowledge in real world scenarios.
PO-3	Effective Communication: Develop clarity of thought in formulating and articulating ideas and communication skills in conveying scientific arguments/logical reasoning/inferences in a lucid yet rigorous manner.
PO-4	Critical, Creative, and Innovative Thinking in Problem Solving: Think critically and propose novel ideas in explaining facts and figures and/or provide new solutions to problems by thinking out of the box, thereby making reasoned judgments that are logical and well-thought-out.
PO-5	Proficiency in Using Modern Tools and Software: Identify and adeptly use appropriate resources, latest tools, and software, enabling competency in conducting more efficient and precise analysis and data management, and providing solutions to the problem at hand so as to be at the forefront of scientific innovations and applications.
PO-6	Research Skills: Develop a sense of inquiry and the ability to identify problems, design, conduct, and analyze experiments, understand scientific methods, formulate hypotheses, interpret data, and draw valid conclusions.
PO-7	Morals, Ethics, Social and Professional Understanding: Understand and apply moral and ethical standards in scientific inquiry and work, considering the broader societal impacts of scientific advancements and fostering integrity in professional collaborations and communications.