

INDIRA GANDHI COLLEGE OF ARTS AND SCIENCE, NELLIKUZHY

DEPARTMENT OF CHEMISTRY

PROGRAM OUTCOME MSc CHEMISTRY	
PO 1	Subject Competence and Problem Solving: The only goal of this program outcome is for participants to comprehend the relevant subject matter in order to become subject matter experts in the field and use the knowledge, skills, and attitudes they have acquired from the study program to solve problems of relevance to society in order to meet the specified needs. By adopting an optimistic approach, it empowers students to examine situations and tasks from several angles and come up with workable answers. This fosters autonomous research skills and sound decision-making.
PO 2	Skills relevant to research: a spirit of investigation and the capacity to pose pertinent and suitable questions, solve problems, synthesize ideas, and express them; aptitude for identifying cause-and-effect relationships, defining issues, formulating, testing, analyzing, interpreting, and drawing conclusions from data, establishing hypotheses, and forecasting cause-and-effect relationships; aptitude for organizing, carrying out, and summarizing an experiment or investigation
PO 3	Cooperation/Teamwork: Capacity to collaborate with a variety of teams in an efficient and courteous manner; to encourage a group to make a coordinated or cooperative effort; to behave as a group or a team in the interests of a shared goal; and to work well as a team member.
PO 4	Analytical reasoning: the capacity to assess the validity and applicability of the evidence; spot logical fallacies and gaps in other people's arguments; analyze and synthesize data from a range of sources; reach valid conclusions and bolster them with examples and evidence; and confront opposing views.
PSO 5	Science-based Reasoning: Capacity to examine concepts, evidence, and experiences critically from an unbiased and well-reasoned standpoint; to analyze, interpret, and draw conclusions from quantitative and qualitative data
PO 6	Self-directed Learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.
PO 7	Critical Thinking: The ability to apply analytical reasoning to a body of knowledge; to critically assess practices, policies, and theories by adhering to a scientific method of knowledge development; to identify pertinent assumptions or implications; to analyze and evaluate arguments, evidence, claims, and beliefs on the basis of empirical evidence.