INTEGRATED M.Sc. PHYSICS

Programme Specific Outcomes (PSO):

Upon completion of the Integrated M.Sc. Physics programme, the students will be able to accomplish the following outcomes

PSO	Expected Outcomes
1	Acquire adequate knowledge in physics which make students able to understand, remember, analyze, evaluate and interpret the world around in a scientific way.
2	Develop problem-solving ability
3	Attain skills to implement innovative and advanced ideas/techniques via collaborative, multidisciplinary means.
4	Have an outlook rooted in human and ethical values.
5	Impart skills and abilities to communicate effectively and hence network with scholars/educational institutions, collaborate and work in teams/lead teams.
6	Acquire a positive attitude towards learning which engenders lifelong personal and professional development.
7	Realize and analyse the world they live in, in a scientific and creative way and thereby make attempts for improving the quality of life of all.
8	Promote Research interest and aptitude in students and thereby enable them towards planning and execution of research in frontier areas of physical sciences.

INTEGRATED M.Sc. ENVIRONMENTAL SCIENCE

Programme Specific Outcomes (PSO):

Upon completion of the Integrated M.Sc. Environmental science programme, the students will be able to accomplish the following outcomes

PSO	Expected Outcomes
1	Understand the concepts of environment and its interactions with the earth and environmental systems and various ecosystems associated with it.
2	Capability to analyse, evaluate and interpret the causes and effects of various environmental problems at local, regional and global scale and to develop management strategies.
3	Acquire interdisciplinary knowledge on the global aspects of climate change, its effects on the environment and its governance
4	Ability to use suitable techniques and tools for efficient management and conservation of various environmental resources, pollution control/waste treatment/management methods, remote sensing/GIS applications and for natural disaster management.
5	Demonstrate proficiency in quantitative methods, qualitative analysis, critical thinking, and written and oral communication needed to conduct high-level work as interdisciplinary scholars and/or practitioners.
6	Master the core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.
7	Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
8	Promote Research interest and aptitude in students and thereby enable them towards planning and execution of research in frontier areas of Environmental sciences.

INTEGRATED M.Sc. CHEMISTRY

Programme Specific Outcomes (PSO):

Upon completion of the Integrated M.Sc. Chemistry programme, the students will be able to accomplish the following outcomes

PSO	Expected Outcome
1	Acquire the deep knowledge and understanding in diverse areas of Chemistry that emphasizes scientific reasoning and analytical problem solving.
2	Develop skills to implement innovative and advanced ideas required to perform in Chemical industry/academia
3	Promote Research interest and aptitude in students and thereby enable them towards planning and execution of research in frontier areas of Chemical sciences
4	Capability to deal with advanced experimental and Instrumental methods/techniques required for the analysis/characterization of chemical compounds.
5	Demonstrate teamwork, communication, Time management and leadership skills across multicultural contexts
6	Work in the interdisciplinary and multidisciplinary areas of chemical science and related applications.
7	Gain deep knowledge of the topic which can develop the problem solving skills using chemical principles.
8	Realize and analyse the world they live in, in a scientific and creative way and thereby make attempts for improving the quality of life.

INTEGRATED M.Sc. LIFE SCIENCES

Programme Specific Outcomes (PSO):

Upon completion of the Integrated M.Sc. Life sciences programme, the students will be able to accomplish the following outcomes

PSO	Expected Outcome
1	Acquire the deep knowledge and skills in diverse areas of life sciences necessary for understanding the basic structural and functional aspects of various living systems.
2	Develop good skills in laboratory techniques for advanced understanding of the biological systems for further applications in research and industry.
3	Translate the technical knowhow in various branches of life sciences for the well-being of humans, other living forms and the environment and to motivate the innovation in biological applications for the emerging and existing needs
4	Nurture excellent research aptitude enabling to design, execute, analyse a research problem to bring a meaningful scientific conclusion by following scientific ethics.
5	To meet the global demand for skilled scientific resources in various branches of life sciences by integrating the knowledge through interdisciplinary approach.
6	Provide a vibrant and internationally competitive academic platform for the fostering of scientific innovations, entrepreneurial skills and communication abilities for the benefit of the society
7	Develop academic standard through deep theoretical knowledge and practical skills to translate scientific learning from life sciences in to process, product, technology or application as per societal demand.
8	Transform life sciences students to leaders/socially committed scientist for improving the quality of life.

INTEGRATED M.Sc. COMPUTER SCIENCE

Programme Specific Outcomes (PSO):

Upon completion of the Integrated M.Sc. Computer science programme, the students will be able to accomplish the following outcomes

PSO	Expected Outcome
1	Acquire a strong foundation in Computer Science that emphasizes the scientific reasoning and problem-solving skills to analyze, design, and implement efficient algorithms and software solutions for complex computational problems.
2	Formulate solutions in interdisciplinary/multidisciplinary/transdisciplinary levels for problem solving in a collaborative environment by applying the knowledge gained from both computer science and complementary disciplines
3	Impart skills and abilities to effectively communicate technical concepts, maintain audience engagement and answer questions confidently.
4	Acquire skills to collaborate and network with scholars in various sectors and to develop leadership skills through team projects, and provide situations to coordinate and motivate team members towards successful outcomes.
5	Ability to evolve as a socially committed and responsible scientist/software professional meeting global demands.
6	Capable of demonstrating the ability to identify ethical issues related to software development and practicing good moral/ethical values in all phases of life.
7	Promote Research interest and aptitude in students and thereby enable them towards planning and execution of research in frontier areas of Computer science.
8	Stay up-to-date with the latest technologies/trends in the world and apply the lifelong learning to remain competitive and adaptable for a successful career in industry, entrepreneurship and higher studies.