

Noorul Islam Centre for Higher Education

(Deemed to be University u/s 3 of the UGC Act 1956)

Kumaracoil, Thuckalay, Kanyakumari District - 629 180

Accredited by NAAC with 'A' Grade

BM24- M.Phil. Human Genetics and Molecular Biology



Student Performance and Learning Outcomes

BM24- M.Phil. Human Genetics and Molecular Biology

Programme Outcomes – PO	
PO-A	Develop the understanding of Human Genetics and Molecular Biology Theory and Research including Human Physiology, Genetics, Cancer Biology, Proteomics and Genomics.
PO-B	Build Knowledge of Current industrial practice including Biotechnology Innovations and Molecular Biological Techniques.
PO-C	Gain experience in Experimental or Case Study design, Scientific Data Analysis, Writing and Communication, Ethical Practices and Effective Collaboration.
PO-D	Communicate effectively with scientific community and with Society at large.
PO-E	Comprehend and write effective report documentation.
PO-F	Effectively disseminate technical information using written progress report, strategic report, scientific communication and operations.

PROGRAMME SPECIFIC OUTCOME(PSO)	
PSO-1	Understand the current state of Biotechnology in their area of specialization
PSO-2	Formulate a hypothesis and conduct research using appropriate tools and techniques with in their focused area of Study.
PSO-3	Communicate research results in Written and Oral Format
PSO-4	Effective Teaching and mentor of others.
PSO-5	Recognise the need for the preparation and ability to carry out an independence research in broadest context of Biotechnological relevance.

Sl.No	Subject Code	Subject Name
SEMESTER II		
1.	BM4A1	STEM CELL BIOLOGY
2.	BM4P1	DISSERTATION

BM4A1- STEM CELL BIOLOGY

CO1	Learn about the different types of stem cells, how they are derived and the extent of their plasticity.
CO2	Learn how tumor stem cells give rise to metastases and treatment-resistant remnant cells that cause relapse, and how this impacts on the development of future cancer treatment strategies
CO3	Learn how epigenetic mechanisms encompassing various DNA modifications and histone dynamics are involved in regulating the potentiality and differentiation of stem cells
CO4	Learn how microRNAs are involved in regulating stem cell differentiation
CO5	Learn how stem cells are currently being used in the clinic and what kinds of future treatments lie on the horizon.

BM4P1- DISSERTATION

CO1	Formulate a scientific question.
CO2	Present scientific approach to solve the problem.
CO3	Interpret, discuss and communicate scientific results in written form.
CO4	Gain experience in writing a scientific proposal.
CO5	Learn how to present and explain their research findings to the audience effectively.