

# 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

MA24 M.Phil MATHEMATICS



## Student Performance and Learning Outcomes

## MA24 M.Phil MATHEMATICS

Programme Outcome(PO)	
PO-A	To recognize and think critically towards the curricula with sound knowledge and theoretical by questioning and reasonable explanations
PO-B	To develop research intensity in the field of pure and applied Mathematics.
PO-C	To pursue of life long learning and professional development to face challenging and emerging needs to our society.
PO-D	To communicate effectively to demonstrate the professional and ethical responsibilities.

Programme Specific Outcomes(PSO)	
PSO1	Generate publications in reputed mathematical journals.
PSO2	Demonstrate the highest standard of ethics in research.
PSO3	Provide opportunities to research students for communication (and discussion) of advanced mathematical topics to undergraduate and graduate students.
PSO4	Produce next generation researchers in mathematics

Sl.No	Subject Code	Subject Name
SEMESTER II		
1	MA24A2	Optimization Techniques
2.	MA24P1	Dissertation

MA24A2 Optimization Techniques	
CO1	Simplify a decision by breaking it down into a sequence of decision steps using DPP. Present a particular weight capacity of a cargo vehicle and a choice of cargo and seeks cargo of maximum value. To optimize both the warehouse space utilization and the products handling cost.
CO2	Ability to solve the zero- sum two person games. Assess and formulate decision making strategies to address operating issues that have short, intermediate or long lead time.
CO3	Understand the concepts of variations and its properties. Use Euler's equation to solve various types of variational problems with fixed boundaries
CO4	Understand to solve boundary value problems using Integral Transform methods.
CO5	Able to solve non linear programming problems .

MA24P1 Dissertation	
CO1	A comprehensive understanding of techniques, and a thorough knowledge of the literature, applicable to their own research
CO2	Demonstrated originality in the application of knowledge, together with a practical understanding of how research and enquiry are used to create and interpret knowledge in their field
CO3	Shown abilities in the critical evaluation of current research, research techniques and methodologies
CO4	Demonstrated some self-direction and originality in tackling and solving problems, and acted autonomously in the planning and implementation of research;
CO5	Taken up a selection of training opportunities, according to their individual needs.