STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME

SCHOOL NAME: ROYAL SCHOOL OF APPLIED AND PURE SCIENCES DEPARTMENT NAME: MATHEMATICS PROGRAMME NAME: MASTER OF SCIENCE (M.Sc.)

MAT014C103 MAT014C104	COURSE TITLE Mathematical Methods	LEVEL 400	CREDIT 4	L-T-P
MAT014C102 MAT014C103 MAT014C104		700		4-0-0
MAT014C103 MAT014C104	Linear Algebra	400	4	4-0-0
MAT014C104	Real Analysis and Lebesgue Measure	400	4	4-0-0
	Ordinary Differential Equations	400	4	4-0-0
MAT014C105	Classical Mechanics and Tensor	400	4	4-0-0
SWAYAM CODE 1	Swayam 1	400	3/4/5	4-0-0
SWATAM CODE I	TOTAL CREDIT FOR 1 ST SE		20+3/4/5	
	2 ND SEMESTER	MESIER	20+3/4/5	
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MAT014C201	Partial Differential Equations	500	4	4-0-0
MAT014C201 MAT014C202	Numerical Analysis and Computational Programming	500	4	4-0-0
MAT014C202 MAT014C203	Algebra	500	4	4-0-0
MAT014C203	Topology	500	4	4-0-0
MAT014C204 MAT014C205	Complex Analysis	500	4	4-0-0
				4-0-0
SWAYAM CODE 2	Swayam 2	500	3/4/5	
	TOTAL CREDIT FOR 2 ND SEMESTER		20 +3/4/5	
	TOTAL CREDIT FOR 1st YEAR=40+6/8/3	10		
COURSE CODE	3 RD SEMESTER	LEVEL	CDEDIT	I T I
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MAT014C301/	Graph Theory / Mathematical Logic	500	4	4-0-0
MAT014C302				4.0.0
MAT014C303/	Functional Analysis / Algebraic Topology	500	4	4-0-0
MAT014C304		500		4.0.0
MAT014C305/	Continuum Mechanics / Relativity / Differential Geometry	500	4	4-0-0
MAT014C306/				
MAT014C307				
MAT014C308/	Number Theory and Cryptography / Financial	500	4	4-0-0
MAT014C309/	Mathematics / Advanced Ring Theory			
MAT014C310				
MAT014C331	Research Project-I	500	8	0-0-8
SWAYAM CODE 3	Swayam 3	500	3/4/5	
	TOTAL CREDIT FOR 3 RD SEMESTER		24 +3/4/5	
	4 th SEMESTER			
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MAT014C401	Measure Theory and Fuzzy Set Theory	500	4	4-0-0
MAT014C402	Operation Research and Machine Learning	500	4	4-0-0
MAT014C403/	Operator Theory / Dynamical System and Fractional	500	4	4-0-0
MAT014C404	Calculus			
MAT014C405/	Fluid Dynamics / Probability and Statistics / Bio-	500	4	4-0-0
MAT014C406/	Mathematics			
MAT014C407				
MAT014C431	Research Project-II	500	12	0-0-12
SWAYAM CODE 4	Swayam 4	500	3/4/5	
	TOTAL CREDIT FOR 4 TH SEMESTER		28 +3/4/5	