KERALA UNIVERSITY

SYLLABUS FOR M.Sc. MATHEMATICS SEMESTER PATTERN IN AFFILIATED COLLEGES 2013 ADMISSION ONWARDS

M.Sc. MATHEMATICS COURSE STRUCTURE & MARK DISTRIBUTION

Semester	_		Distributi	Instructional hrs./ week					
	Paper	Title of the Paper	on .			Dur ESA	Maximum Marks		
	Code		hrs. per						
			Semester			hrs.		77.	
1	20/011			L	P		CA	ESA	Total
	MM 211	Linear Algebra	108	6	-	3 hrs	25	75	100
	MM 212	Real Analysis - I	108	6	-	"	25	75	100
	MM 213	Diff. Equation	108	6	-	"	25	75	100
	MM 214	Topology - I	126	7	S-1	"	25	75	100
П	MM 221	Algebra	108	6	-	3 hrs	25	75	100
	MM 222	Real Analysis-II	108	6	-	66	25	75	100
	MM 223	Topology-II	108	6	-	66	25	75	100
	MM 224	Computer Programm- ing in C++	126	5	2	"	25	75	100
			1	. 5	F				
Ш	MM 231	Complex Analysis - I	126	7	•	3 hrs	25	75	100
	MM 232	Functional Analysis -I	108	6	-	"	25	75	100
	MM 233	Elective - I	108	6	-	66	25	75	100
	MM 234	Elective - II	108	6	-	"	25	75	100
	201011		10.6						
IV	MM 241	Complex Analysis - II	126	7		3 hrs	25	75	100
	MM 242	Functional Analysis-II	108	6	• ,	"	25	75	100
	MM 243	Elective - III	108	6	-	"	25	75	100
	MM 244	Elective - IV	108	6	-	66	25	75	100
	MM 245	Dissertation / Project	1						
		Comprehensive Viva	1000					80+20	100
		GRAND TOTAL	1800						100
L: Lec	cture: P: Pra	ctical; CA: Continuous A	10UU				1		1800

M.Sc MATHEMATICS (Revised Syllabus from 2013 Admissions) LIST OF PAPERS

SEMESTER - I

MM211 Linear Algebra (Revised Syllabus Attached) MM212 Real Analysis - I (Revised Syllabus Attached) MM213 Differential Equations (Original Syllabus Continues)

MM214 Topology - I (Revised Syllabus Attached)

SEMESTER - II

MM221 Algebra (Revised Syllabus Attached)

MM222 Real Analysis - II(Revised Syllabus Attached)

MM223 Topology - II (Revised Syllabus Attached)

MM224 Computer Programming in C++ (Original Syllabus Continues)

SEMESTER - III

MM231 Complex Analysis – I (Original Syllabus Continues)

MM232 Functional Analysis – I (Original Syllabus Continues)

MM233 Elective (One among the following)

Automata Theory (Original Syllabus Continues)

Probability (Original Syllabus Continues)

Operations Research (Revised Syllabus Attached)

MM234 Elective (One among the following)

Geometry of numbers (Original Syllabus Continues)

Differential Geometry (Original Syllabus Continues)

Graph Theory (New Syllabus Attached)

Approximation Theory (New Syllabus Attached)

SEMESTER - IV

MM241 Complex Analysis – II (Original Syllabus Continues)

MM242 Functional Analysis – II (Original Syllabus Continues)

MM243 Elective (One among the following)

Mathematical Statistics (Original Syllabus Continues)

Mechanics (Original Syllabus Continues)

Theory of Wavelets (Original Syllabus Continues)

Coding Theory (Original Syllabus Continues)

Field Theory (Revised Syllabus Attached)

MM244 Elective (One among the following)

Commutative Algebra (Original Syllabus Continues)

Representation Theory of Finite Groups (Original Syllabus Continues)

Category Theory (Original Syllabus Continues)

Advanced Graph Theory (Original Syllabus Continues) Analytic Number Theory (Original Syllabus Continues)