Vellalar College for Women (Autonomous), Erode - 12.

Master of Science in Mathematics

Course Content and Scheme of Examinations(CBCS & OBE Pattern)

2018 - 19 and onwards

Semester I

Study Components	Subject Code	Title of the Paper	Inst. Hrs./ Week	Exam. Dur. Hrs.	Max. Marks			Credits
					CIA	ESE	Total	
Core	18MSPC101	Linear Algebra	5	3	25	75	100	3
	18MSPC102	Real Analysis	6	3	25	75	100	4
	18MSPC103	Ordinary Differential Equations	6	3	25	75	100	4
	18MSPC104	Number Theory	5	3	20	55	75	3
	18MSPC105	Mathematical Programming	5	3	20	55	75	3
Non- Major Elective	18MSPN101	Numerical Aptitude and Reasoning	3	3	25	75	100	5
Total							**550**	**22**

Semester II

Study Components	Subject Code	Title of the Paper	Inst. Hrs./ Week	Exam. Dur. Hrs.	Max. Marks			Credits
					CIA	ESE	Total	
Core	18MSPC206	Algebra	6	3	25	75	100	4
	18MSPC207	Complex Analysis	6	3	25	75	100	4
	18MSPC208	Partial Differential Equations	6	3	25	75	100	4
	18MSPC209	Mathematical Statistics	6	3	25	75	100	4
	18MSPCP01	Practical - Programming in PYTHON	3	3	_	50	50	2
Skill Based Subject I	18MSPS201	Advanced Multi-Skill Development Paper	3	1	40	60	100	5
Total							**550**	**23**

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Semester III								
Study Components	**Subject Code**	**Title of the Paper**	**Inst. Hrs./ Week**	**Exam. Dur. Hrs.**	**Max. Marks**			**Credits**
					CIA	**ESE**	**Total**	
Core	18MSPC310	Measure Theory and Integration	6	3	25	75	100	4
	18MSPC311	Topology	6	3	25	75	100	4
	18MSPC312	Fuzzy Sets and Fuzzy Logic	6	3	25	75	100	4
	18MSPC313	Numerical Analysis	6	3	25	75	100	4
Skill Based Subject II	18MSPSP02	Programming in LaTeX	3	3	40	60	100	5
Skill Based Subject III	18MSPS303	Problem Solving in Algebra and Real Analysis	3	3	25	75	100	5
Total							**600**	**26**
Semester IV								
Study Components	**Subject Code**	**Title of the Paper**	**Inst. Hrs./ Week**	**Exam. Dur. Hrs.**	**Max. Marks**			**Credits**
					CIA	**ESE**	**Total**	
Core	18MSPC414	Functional Analysis	6	3	25	75	100	4
	18MSPC415	Mathematical Methods	6	3	25	75	100	4
	18MSPC416	Mechanics	6	3	25	75	100	4
	18MSPC417	Graph Theory	6	3	25	75	100	4
	18MSPC4PV	Viva - Voce	6	–	–	20	100	3
		Project Report				80		
Total							**500**	**19**

		SKIL-BASED SUBJECTS	
Paper-I	18MSPS201	Advanced Multi-Skill Development Paper	5 Credits
Paper-II	18MSPSP02	Programming in LaTeX	5 Credits
Paper-III	18MSPS303	Problem Solving in Algebra and Real Analysis	5 Credits
		NON-MAJOR PAPER	
Paper-I	18MSPN101	Numerical Aptitude and Reasoning(CafeteriaSystem)	5 Credits
		SELF-LEARNING PAPER (Optional)	
Paper-I	18MSPSL01	Descriptive Statistics	5 Credits
Paper-II	Online Examination	MOOCs Course (Non Ranking)	5 Credits