

Proceedings of The Board of Studies meeting of Post Graduate
Department of Mathematics held at, The National College, Jayanagar,
Bangalore-560070 on 12th June 2019.


The following members attended the meeting:

1	Dr. K. R. Madhura	Madhura K.R
2	Prof. I. S. Shivakumara	I.S. Shivakumara
3	Dr. H. G. Nagaraja	H. G. Nagaraja 12/06/19
4	Dr. Medha Itagi Huilgol	Medha Itagi Huilgol 12/06/19
5	Dr. Ramesh .B. Kudenatti	Ramesh .B. Kudenatti
6	Dr. Vasant Kumar Jain.	
7	Ms. Kavya G. M.	Kavya G. M.
8	Ms. K. Nagamani	K. Nagamani
9	Ms. Kalpana .G	K. G.
10	Ms. Akhila P. A.	Akhila P. A

Proceedings of the meeting

- Dr. K.R. Madhura, Chairman and Co-ordinator of the Postgraduate department of Mathematics welcomed the members of Board of Studies to the meeting.
- Chairman briefed about the agenda of the meeting and read out the syllabus.
- A discussion was held on the suitability of adopting the syllabus with modifications.
- The elective papers in fourth semester such as
 1. M403T(D) : Entire and Meromorphic functions
 2. M403T(E) : Special Functions
 3. M403T(F) : Fluid Dynamics of Ocean and Atmosphere
 4. M403T(I) : Riemannian Geometry
 5. M403T(J) : Design and Analysis of Algorithmwere suggested to be discarded
- Modifications regarding addition of some textbooks and reference books were suggested.
- Modification in number of programs in paper M206P : Scilab practicals for Numerical Analysis-I were suggested.
- Number of teaching hours in papers such as
 1. M201T : Algebra-II
 2. M301T : Linear Algebra
 3. M305T : Numerical Analysis-II
 4. M403T(B) : Magnetohydrodynamicswere merged and reallocated.
- The modifications made with regard to the syllabus and suggestions given were incorporated.
- The chairman thanked all the members and the meeting was concluded.

Place: Bangalore
Date: 06 June, 2017


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Structure of M.Sc- Mathematics Syllabus

Subjects	Papers	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
				IA	Exam	Total		
I Semester								
Core Subjects	Theory	M101T : Algebra-I	4	3	30	70	100	4
		M102T : Real Analysis	4	3	30	70	100	4
		M103T : Topology-I	4	3	30	70	100	4
		M104T : Ordinary Differential Equations	4	3	30	70	100	4
		M105T : Discrete Mathematics	4	3	30	70	100	4
	Practicals	M106P :Maxima Practicals for Discrete Mathematics	3	3	15	35	50	2
Soft Core	Theory	M107SC : An Introductory Course on Cryptography	3	3	30	70	100	2
Total Credits per semester								24
II Semester								
Core Subjects	Theory	M201T : Algebra - II	4	3	30	70	100	4
		M202T : Complex Analysis	4	3	30	70	100	4
		M203T : Topology-II	4	3	30	70	100	4
		M204T : Partial Differential Equations	4	3	30	70	100	4
		M205T : Numerical Analysis-I	3	3	30	70	100	4
	Practicals	M206P : Scilab Practicals for Numerical Analysis-I	3	3	15	35	50	2
Soft Core	Theory	M207SC : Continuum Mechanics	3	3	30	70	100	2
Total Credits per semester								24

III Semester								
Core Subjects	Theory	M301T : Linear Algebra	4	3	30	70	100	4
		M302T : Functional Analysis	4	3	30	70	100	4
		M303T : Differential Geometry	4	3	30	70	100	4
		M304T : Fluid Mechanics	4	3	30	70	100	4
		M305T : Numerical Analysis-II	4	3	30	70	100	4
	M306P: Scilab Practicals for Numerical Analysis-II	4	3	15	35	50	2	
Open Elective		M307OE : Operation Research	2	3	30	70	100	2
Total Credits per semester								24
IV Semester								
Core Subjects and Electives	Theory	M401T : Measure and Integration	4	3	30	70	100	4
		M402T: Mathematical Methods	4	3	30	70	100	4
		M403T(A) : Graph Theory	3x4	3x3	3x30	3x70	3x100	3x4
		M403T(B) : Magnetohydrodynamics						
		M403T(C): Finite Element Methods with Applications						
		M403T(D): Computational Fluid Dynamics(CFD)						
		M403T(E): Mathematical Modeling and Simulation						
Project Work		8	Report Evaluation			100	4	
Total Credits Per Semester								24
Program Grand Total Of Credits								96

Note:

1. The maximum number of students taking an elective shall be 15 (preferably).
2. The electives will be offered to the students through counseling in the department based on the marks obtained in the first two semesters.

Break-up of practical mark allotment (of 35 marks)

- Practical Record : 5 marks
- Writing and Execution of Two Programs : 24 marks
- Viva : 6 marks

Break-up of internal assessment marks for practical (of 15 marks)

- Attendance : 05 marks
- One internal test: 10 marks

Break up of internal assessment marks for theory papers (30 marks)

- Two internal tests: 15 marks
- Attendance: 05 marks
- Assignments: 05 marks
- Seminar: 05 marks

Break up of project work marks allotment (100 marks)

- Project report evaluation
(Two Evaluations- One Internal and One External): 70 marks
- Viva : 10 marks
- Project presentation: 20 marks