

Proceedings of The Board of Studies meeting of Post Graduate
Department of Mathematics held at, The National College, Jayanagar,
Bangalore-560 070 on 01 June 2018.

The following members attended the meeting:

1	Dr. K. R. Madhura	Madhura KR
2	Prof. I. S. Shivakumara	I.S. Shivakumara
3	Dr. H. G. Nagaraja	H.G. Nagaraja
4	Dr. Medha Itagi Huilgol	Medha Itagi Huilgol
5	Dr. Ramesh .B. Kudenatti	Ramesh B. Kudenatti
6	Dr. Vasant Kumar Jain	
7	Ms. Nirmala .S	Nirmala .S
8	Ms. Shwetha .K. Udupa	Shwetha .K. Udupa
9	Ms. K. Nagamani	K. Nagamani

1. The chairman and coordinator of the postgraduate department of Mathematics welcomed the members of Board of Studies meeting.
2. Chairman briefed about the agenda of the meeting and read out the syllabus.
3. The following suggestions were made by the board of studies members
 - A. Previous practical papers of the year 2017-18, M107P, M207P, M305P, M306P, 405P and M406P were discarded.
 - B. In I semester
 - i. New set of programs were suggested for the practical paper M106P
 - In II semester
 - i. M201T – Functional Analysis was suggested to be replaced by Algebra II, with suitable modifications.
 - ii. M205T – Mathematical Modelling and Numerical Analysis was suggested to be replaced by Numerical Analysis I with suitable modifications.
 - iii. New set of programs were suggested for the practical paper M206P.
 - In III semester
 - i. Two new theory papers “Linear Algebra” and “Numerical Analysis II” was proposed for the paper M301T and M305T respectively.
 - ii. M302T Differential Geometry was moved to M303T and Functional Analysis was suggested to be introduced in M302T.
 - iii. A new practical paper based on M304T along with programs was proposed for the paper M306P.
 - iv. Changes to enhance the syllabus of M307OE – Operations research were made.
 - In IV semester
 - i. Changes in the way of numbering of optional papers were suggested.
 - ii. In M402T – Mathematical Methods was suggested to replace graph theory which was shifted to M403T (A).
 - C. Modifications were suggested regarding numbering of papers, paper titles, instruction hours, credit allotment, text books and reference books of some of the theory and practical papers.
 - D. Modifications to be made in the way that the details of the break- up of internal and main practical along with project evaluation were suggested by the committee.

4. All the suggestions were discussed upon in detail and were incorporated.
5. The Chairman thanked all the members and the meeting was concluded.

Place: Bangalore
Date: 01-06- 2018



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P. G. Department of Mathematics,
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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	3x10	3x4
		M403T(B) : Magnetohydrodynamics						
		M403T(C): Finite Element Methods with Applications						
		M403T(D): Entire And Meromorphic Function						
		M 403 T (E): Special Functions						
		M403T(F): Fluid Dynamics of Ocean and Atmosphere						
		M403T(G): Computational Fluid Dynamics(CFD)						
		M403T(H): Mathematical Modeling and Simulation						
		M403T(I): Riemannian Geometry						
	M403T(J): Design and Analysis of Algorithms							
	Project Work	8	Report Evaluation			100	4	
Total Credits Per Semester								24
Program Grand Total Of Credits								96