

The Board of studies meeting for M.Sc (Mathematics) is concluded on 07.02.2018 at 10.30 A.M in the PG-department of Mathematics

The following members are present

1. Dr. S. Asul Raj (University Nominee)
Associate Professor
St. Xavier's College (Autonomous)
Palayamkottai - 627002

S. Asul Raj

2. Dr. K. Alli (Subject Expert - I)
Assistant Professor
The M.D.T Hindu College,
Tirunelveli - 627010

K. Alli

3. Dr. R. Balakrishnan (Subject Expert - II)
Associate Professor
V.O.C College,
Tuticorin - 628008



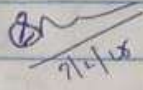
R. Balakrishnan

4. Mrs. R. Kalarathi (Alumni)
Assistant Professor of Mathematics
Thamirabarani Engineering College
Thaerhallur, Tirunelveli

R. Kalarathi
07/02/18

5. Mrs. A. Rizwana
Head of Assistant Professors,
Department of Mathematics (Unaided)
Sadakathullah Appa College (Autonomous)

A. Rizwana

6. U. Jerseena,
Assistant Professor, Dept of Mathematics (SF) U. Jerseena / 7/2/18
7. Dr. A. Mallika
Assistant Professor, Dept of Mathematics (SF) 
8. J.A. Afran Nuhaa
Assistant Professor, Dept of Mathematics (SF) J.A. Afran / 7/2/18
9. H.M. Sulthan Abthar
Assistant Professor, Dept of Mathematics (SF) 
10. S. Angelin Keetha Raj
Assistant Professor, Dept of Mathematics (SF) 
11. R. Hephzibah Anita
Assistant Professor, Dept of Mathematics (SF) R. Hephzibah

Resolutions:

As per the UGC syllabus structure, papers for M.Sc Mathematics were decided and syllabus was framed.

Suggestions:

The Board suggested to combine the Computer theory and practical (6+6) papers as a single paper and to introduce mathematics paper (new papers) in second and fourth semester.

The Board suggested to include Reference Books for every papers included in the syllabus

The Board suggested to include the number of problems in each chapters for problem oriented papers like calculus of Variations & Integral Equations, Mathematical Statistics, Differential Geometry, etc.

Introduction of new courses and percentage of revision

have been made as mentioned in the annexure

- 1. Dr. S. Anul Raj (University Nominee) 1. A → ✓
- 2. Dr. K. Alli (Subject Expert - I) K. Alli
- 3. Dr. R. Balakrishnan (Subject Expert - II) R. Bal
- 4. Mrs. R. Kalavathi Kal
- 5. Mrs. A. Rizwana A. R
- 6. U. Jaseena U. J
- 7. Dr. A. Mallika A. M
- 8. J.A. Afana Nuhaa J. A
- 9. H.M. Sultham Athar H. M
- 10. S. Angelin Karitha Raj S. A
- 11. R. Hephzibah Anita R. H

[Signature]
7/2/18

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DEAN OF SCIENCES

M. Iqbal

7/2/18

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7/2/18



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Annexure - I

Department of Mathematics (PG)

The Board of Studies of Department of Mathematics (PG) was held on 7.2.2018 for the approval of 2018-2021 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

New Courses introduced

S.No.	Title of the Course	Course Code
1	Discrete Mathematics	18PEMA1B
2	Numerical Analysis	18PEMA2B
3	Differential Geometry	18PEMA3A
4	Analytical Number Theory	18PEMA3B
5	Advanced Discrete Mathematics	18PIMA21
6	Numerical and Statistical Method	18PIMA31

Courses focused on Skill Development /Employability / Entrepreneurship

S.No.	Title of the Course	Course Code	Category
1.	Mathematical Statistics	18PCMA13	Employability
2.	Classical Mechanics	18PEMA1A	Employability
3.	Discrete Mathematics	18PEMA1B	Employability
4.	LaTex and MATLAB	18PCMA23	Employability
5.	Graph Theory	18PCMA31	Employability
6.	Operations Research	18PCMA34	Employability
7.	Differential Geometry	18PEMA3A	Employability
8.	Java Programming	18PEMA4B	Employability
9.	Advanced Discrete Mathematics	18PIMA21	Employability
10.	Numerical and Statistical Method	18PIMA31	Employability
11.	Project	18PCMA43	Skill Development
12.	LaTex andMATLAB Practical	18PCMA2P	Skill Development
13.	Programming in C++ and Data Structures	18PEMA4A	Skill Development
14.	Java Programming Practical	18PEMA4P2	Skill Development
15.	Numerical Analysis	18PEMA2B	Entrepreneurship
16.	Functional Analysis	18PCMA42	Entrepreneurship



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Percentage of Revision

S.No.	Courses	Course Code	Percentage %
1.	Discrete Mathematics	18PEMA1B	100%
2.	Numerical Analysis	18PEMA2B	100%
3.	Advanced Discrete Mathematics	18PIMA21	100%
4.	Operations Research	18PCMA34	60%
5.	Differential Geometry	18PEMA3A	100%
6.	Analytical Number Theory	18PEMA3B	100%
7.	Numerical and Statistical Method	18PIMA31	100%

Total Percentage of Revision: 24.44%

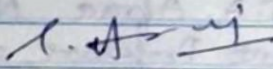
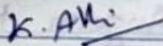
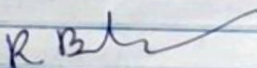
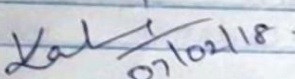
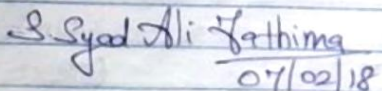
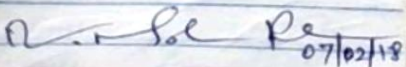
Total number of Courses: 27


PRINCIPAL

07/02/2018

The Board of Studies meeting for the academic year 2018-2019 was held on 07/02/2018 for M-Phil (Mathematics) in the PG-Department of Mathematics.

The following members are present -

1. Dr. S. Arul Raj (University Nominee)
Associate Professor of Mathematics
St. Xavier's college (Autonomous)
Palayamkottai, TVL-627002. 
2. Dr. K. Alli (Subject Expert - I)
Assistant Professor of Mathematics
The M.D.T. Hindu college,
Tirunelveli-627010 
3. Dr. R. Balakrishnan (Subject Expert - II)
Associate Professor of Mathematics
V.O.C. college,
Tuticorin - 628008. 
4. Mrs. R. Kalavathi (Alumni)
Assistant Professor of Mathematics
Thamarabazani Engineering College,
Thachanallur, Tirunelveli. 
5. Dr. S. Syed Ali Fathima (Chair Person)
Assistant Professor of Mathematics (Aided)
Sodakathullah Appa college. 
6. Dr. N. Mohamed Rilwan
Assistant Professor of Mathematics (Aided) 

7. Mrs. A. Rizwana,
Head, PG Department of Maths (Unaided)

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8. Mrs. V. Jeyseena
Assistant Professor of Maths (SF)

V. Jeyseena

9. Dr. A. Mallika
Assistant Professor of Maths (SF)

A. Mallika

10. Mrs. J.A. Afraa Nuhaa
Assistant Professor of Maths (SF)

J.A. Afraa Nuhaa

11. Mr. H.M. Sulthan Akthar
Assistant Professor of Maths (SF)

H.M. Sulthan Akthar

12. Mrs. S. Angelin Kavitha Raj
Assistant Professor of Maths (SF)

S. Angelin Kavitha Raj

13. R. Hephzibah Anitha
Assistant Professor of Maths (SF)

R. Hephzibah

Resolutions.

As per the guidelines of Manonmaniam Sundaranar University, the Board reformed the course structure and syllabus for M.Phil. Mathematics for the academic year 2018-2019, as follows.

In the I Semester,

1. Core - I - Research Methodology (Credits - 4, Hours - 4).

Unit I : Chapters 1, 2, 4, 7.

(Text Book : N. Gurumani - Research Methodology for Biological Sciences - NIP Publishers).

Unit II : Chapter 1 : Section 1.1 - 1.3

Unit III : Chapter 2 : Section 2.1 - 2.3

Unit IV : Chapter 2 : Section 2.4, 2.5
Chapter 3 : Section 3.1 - 3.2

Unit V : chapter 3 : Section 3.3 - 3.6.

(Text Book : Teresa W. Haynes, Stephen T. Hedekniemi and Peter J. Slater, Fundamentals of Dominations in graphs, Marcel Dekker).

2. Core - II - Advanced Algebra (credits - 4, Hours - 4)

Unit I : chapter 1

Unit II : chapter 2 - Section 2.1 - 2.11

Unit III : chapter 3

Unit IV : chapter 5 - Section 5.1 - 5.16)

Unit V : chapter 7, 8.

(Text Book : N.P. Atiyah & I.G. Macdonald, Introduction to Commutative Algebra - Addison Wesley Publishing Company)

3. Project oriented Elective course (Theory)

1A : Banach Algebras and Spectral Theory (credit - 4, Hours - 4)

Unit I : Chapter 10 : Section 10.1 - 10.20

Unit II : Chapter 10 : Section 10.21 - 10.35

Unit III : Chapter 11 : Section 11.1 - 11.29

Unit IV : Chapter 12 : Section 12.1 - 12.16

Unit V : Chapter 12 : Section 12.17 - 12.36

(Text Book : Walter Rudin - Functional Analysis - Second Edition)

1B : Advanced Analysis - (credit - 4, Hours - 4)

Unit I : chapter - 1 (Sections 1.1 - 1.22)

Unit II : Chapter - 1 (Sections 1.23 - 1.41)

Unit III : chapter - 2

Unit IV : chapter - 3

Unit V : chapter - 6

(Text Book : Walter Rudin - Real and complex Analysis - Third Edition)
- 2006

In the Second Semester,


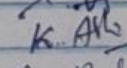
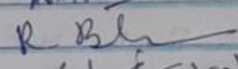
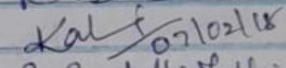
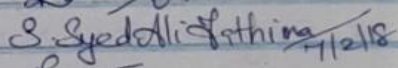
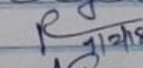
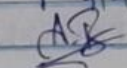
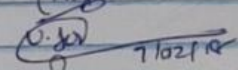
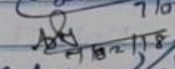
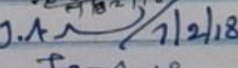
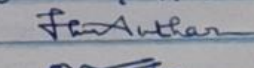
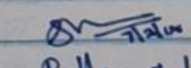
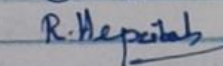
Project and Viva-Voce (credits - 12)

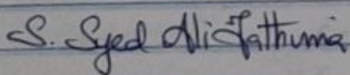
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Introduction of new courses and percentage of revision has been made as mentioned in the annexure.

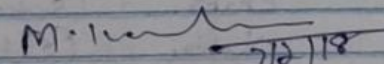
Suggestions

The Board members suggested that, the minimum number of pages required in the M.Phil dissertation may be 70 pages except the bibliography and Annexure

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|--|---|---|
| 1. Dr. S. Arul Raj (University Nominee) | - |  |
| 2. Dr. K. Alli (Subject Expert - I) | - |  |
| 3. Dr. R. Balakrishnan (Subject Expert - II) | - |  |
| 4. Mrs. R. Kalavathi (Alumni) | - |  07/02/18 |
| 5. Dr. S. Syed Ali Fathima (Chair Person) | - |  11/2/18 |
| 6. Dr. N. Nohamed Rilwan | - |  11/2/18 |
| 7. Mrs. A. Rizwana | - |  |
| 8. Mrs. U. Jesseena | - |  11/2/18 |
| 9. Dr. A. Mallika | - |  11/2/18 |
| 10. Mrs. J.A. Afraa Nuhaa | - |  11/2/18 |
| 11. Mr. H.M. Sulthan Athas | - |  |
| 12. Mrs. S. Angelin Kavitha Raj | - |  |
| 13. Mrs. R. Hephzibah Anita | - |  |



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 11/2/18
DEAN OF SCIENCES

 11/2/18
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Annexure - I

Department of Mathematics (M. Phil)

The Board of Studies of Department of Mathematics (M. Phil) was held on 07.02.2018 for the approval of 2018-2021 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

New Courses introduced

S.No.	Title of the Course	Course Code
1	Algebraic Graph Theory	18MEMA1A
2	Fuzzy Mathematical Concepts	18MEMA1B
3	Algebraic Topology	18MEMA1D
4	Advanced Graph Theory	18MEMA1C

Courses focused on Skill Development /Employability / Entrepreneurship

S. No.	Title of the Course	Course Code	Category
1.	Research and Educational Methodology	18MCMA11	Skill Development
2.	Project and Viva-Voce	18MDMA21	Skill Development

Percentage of Revision

S. No.	Courses	Course Code	Percentage %
1.	Research and Educational Methodology	18MCMA11	50%
2.	Algebraic Graph Theory	18MEMA1A	60%
3.	Fuzzy Mathematical Concepts	18MEMA1B	25%
4.	Advanced Graph Theory	18MEMA1C	35%
5.	Algebraic Topology	18MEMA1D	100%

Total Percentage of Revision: 66%

Total number of Courses: 07


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