

Minutes of the Board of Studies,
Department of Mathematics
To be implemented from 2021-2022 onwards

Venue : Maths Department

Convened on : 10.04.2021

Convened at : 10.30 am

Members Present : (Names with Initial and Designation)

- | | | |
|---|--|--------------------|
| 1 | Dr. Pandia Raja
Principal
Thyagaraja College,
Madurai - 625009.
Mail ID : pandiaraja.d@gmail.com | University Nominee |
| 2 | Dr. M. Navaneethakrishnan
Associate Professor & Head
Department of Mathematics
Kamaraj College
Thoothukudi - 628003
Mail ID : navaneethan65@yahoo.com | Subject Expert |
| 3 | Dr. D. Mathuramakrishnan
Dean of Science
Head of the Department
Department of Mathematics
National College
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@ gmail . com | Subject Expert |

4.	Ms. S. Sindhuja Senior Statistical Officer National Statistical Office (FOD) Ministry of Statistics and Programme Implementation B wing 2 nd Floor, Shastri Bhavan Haddons Road Nungambakkam, Chennai-600006	Industrialist
5.	Dr. K. P. V. Preethi Assistant Professor Department of Mathematics Saiva Bharu Kshatriya College Aruppukottai - 626101 Mail ID: vpreethi90@yahoo.com	Alumna
6.	Mrs. A. Paulin Mary	Head of the Dept.
7.	1. Mrs. A. Shree Roselin 2. Dr. Sr. M. Fatima Mary 3. Dr. C. Prasanna Devi 4. Dr. E. Helena 5. Mrs. Nigila Ragavan 6. Mrs. M. Terese Nirmala 7. Dr. V. Vanitha 8. Mrs. R. Jenovi Rosary Deepa 9. Mrs. B. Vethamary Jacqueline 10. Mrs. J. Annal Mercy 11. Dr. K. Amutha 12. Dr. M. Rasi	Staff Members

Minutes of the Board of Studies.

1. Presentation of the Action Taken Report.

Action Taken Report for 2020-2021-UG.

S.No	Common Suggestion Offered in the Previous Board.	Action Taken For the Academic Year 2020-21
1.	The Board approved 10% Self Study Components for all UG Papers	The approved 10% Self Study Components for all UG papers was incorporated in the Syllabus.
2.	The Board passed the Syllabi for new Self-learning Course, "History of Mathematics," (19UGSLMI) for advanced learners of III UG.	The Syllabi passed by the Board for new Self-learning Course, "History of Mathematics" (19UGSLMI) for advanced learners of III UG was implemented.

Action Taken Report for 2020-2021 PG.

S.No	Common Suggestion offered in the Previous Board	Action Taken for the Academic Year 2020-21
1.	The Board approved 20% Self Study Component for all PG Papers.	The approved 20% Self Study Components for all PG papers was incorporated in the Syllabus.
2.	The Board passed the Syllabi for new Self-learning Course, "Problems	The Syllabus passed by the Board for new Self-learning Course, "Problems

in 'Advanced Mathematics' (19PASLMI) for advanced learners of II PC.

in 'Advanced Mathematics' (19PASLMI) for advanced learners of II PC was implemented.

Change of Course Title - Nil.

S.No	Old Course Code	New Course Code	Old Course Title	New Course Title	Need for change.
-	-	-	-	-	-

New Courses introduced - UG.

S.No	Course Code	Course Title	Relevance To				Scope for			Need for Introduction.
			L	R	N	G	EMP	ENTRE	SD	
1.	19UGSLMI	History of Mathematics				✓	✓			Enable the students to know the origin and development of Mathematics and to know about various Mathematicians

New Courses introduced - PG.

S.No	Course Code	Course Title	Relevance to				Scope for			Need for Introduction
			L	R	N	G	EMP	ENTRE	SD	
1.	19PGSLMI	Problems in Advanced Mathematics			✓		✓			Enable the students to solve NET based problems in various branches of Mathematics.

Revised Courses - Nil.

S.No	Course Code	Course Title	No. of Units Revised with the Revised Content	% of the Revision	Need for Revision	Relevance To	Scope for
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2. Updation of open Educational Resources in the list of references of each Course - UG.

S.No	Course Code	Course Title	Details of Updation
1.	19M1CC1/19G1CC1	Calculus	1. www.tutorialspoint.com 2. www.khanacademy.org

2.	19M1CC2/19G1CC2	Classical Algebra	http://www.britannica.com
3.	21M1ACP1	Allied Maths - I	www.tutorialspoint.com
4.	19M2CC3/19G2CC3	Differential Equations	www.geogebra.org
5.	21M2CC4/21G2CC4	Statistics	Statistics & Probability Calculator & worksheets .com
6.	21M2ACP2	Allied Mathematics - II	http://www.britannica.com

Updating of Open Educational Resources in the list of References of each Course - PG.

S.No	Course Code	Course Title	Details of Updating
1.	19PG1M1	Algebra	http://books.google.co.in/books/A+text+book+of+Algebra.html
2.	19PG1M2	Real Analysis	http://onlinelibrary.wiley.com
3.	19PG1M4	Classical Mechanics	http://www.freebookcentre.net/Physics/classical+mechanics-books.html
4.	19PG2M5	Advanced Algebra	http://books.google.com/books/A+text+book+of+Algebra.html
5.	19PG2M6	Advanced Real Analysis	http://onlinelibrary.wiley.com
6.	19PG2M7	Differential Equations	http://tutorial.math.lamar.edu/classes/de-approx

7.	19PG2 m8	Graph Theory	http://nlp.stanford.edu http://www.rc.ethz.ch
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3. Revision of Courses - UG - Nil.

Revision of Courses - PG.

S. No	Course Code	Course Title	No & Title of Units Revised with Revised Content.	% of the Revision	Need for Revision	Relevance To	Scope for					
							L	R	N	A	EMP	ENT RE
1.	19PG3 MEI	Fuzzy Sets and its applications	Unit I: CRISP Sets and Fuzzy Sets: Classical Logic an overview, Fuzzy logic Unit IV Fuzzy measure Necessity Measures	10%	Based on Removed the feed back from the students (Syllabus is too heavy for 4 hours)						✓	✓

Course Code Changed - PG.

S.No	Old Course Code	New Course Code	Sub. Title
1.	19PG3 MEI	21PG3 MEI	Fuzzy Sets and its Applications.

4. New Courses Introduced - UG.

S.No	Course Code	Course Title	Relevance To				Scope for			Need for Introduction
			L	R	N	G	EMP	ENT RE	SD	
1.	21UGEM2SL	Mathematics and Economics for Competitive Exams			✓		✓		✓	To enhance employability skills.

New Course introduced - PG.

S.No	Course Code	Course Title	Relevance To				Scope for			Need for Introduction
			L	R	N	G	EMP	ENT RE	SD	
1.	21PGLM2SL	Verbal and Numerical Aptitude for National Examinations			✓		✓		✓	To enhance employability skills.

5. Introduction of Purely Skill-Embedded Certificate/Diploma/Advanced Diploma Value-Added Course other than the Value-Added Course already being offered.

S.No	Course code	Course Title	Skill Sharpened	Course outcome
1.	21UGVAM1	Verbal and Non-verbal Reasoning	Analytical Reasoning Skills	1-Develop General Mental Ability 2 Apply Analytical Reasoning 3 Understand pattern Completion tricks

6. Rubrics for Internship/Project

S-NO	C ₁ 20 marks	C ₂ 20 marks	CIA Total 40 marks	External 60 marks.
1.	Follow up after 15 days	Viva-voce after completion	-	

The Board reviewed and approved the following I B.Sc Mathematics and I M.Sc Mathematics Syllabi for I and II Semesters UG.

19 MICE1/19 GICE1 - Calculus
 19 MICE2/19 GICE2 - Classical Algebra
 21 MIAEP1 - Allied Mathematics - I
 19 M2CC3/19 G2CC3 - Differential Equations
 21 M2CC4/21 G2CC4 - Statistics
 21 M2AEP2 - Allied Mathematics - II

PG

19 PG1M1 - Algebra
 19 PG1M2 - Real Analysis
 19 PG1M3 - Number Theory
 19 PG1M4 - Classical Mechanics
 19 PG1EDC/19 PG2EDC -
 19 PG2M5 - Advanced Algebra
 19 PG2M6 - Advanced Real Analysis
 19 PG2M7 - Differential Equations
 19 PG2M8 - Graph Theory.

Computer programming with C and object Oriented Programming with C++ are shifted from V Semester and VI Semester to I year as Allied papers in I Semester and II Semester & Statistics and Advanced

Statistics will be shifted from I Semester and II Semester to Semester II and Semester IV as Major papers. 10% of the Syllabus is reduced in PC-IV Semester Elective paper "Fuzzy Sets and its applications". The board approved the Syllabus for the new Self learning Extra Credit Courses 21UGLM2SL, "Mathematics and Economics for Competitive Exams" - interdisciplinary (Offered by Mathematics and Economics Dept) which will be introduced in II Semester for IUG advanced learners and 21PCLM2SL - Verbal and Numerical Aptitude for National Examinations" - Interdisciplinary (Offered by Mathematics and English Dept) in II Semester for IPh

Advanced learners. They also approved the Syllabus of the new Value added Crash Course 21UGVAM1, "Verbal and Non verbal Reasoning". The board also approved the following Allied Courses offered by the Mathematics Department (SF) to B.Sc Statistics, BBA, and B.Sc. IT & BCA

B.Sc. Statistics

1. 21G1ACST1 - Calculus
2. 21G2ACST2 - Algebra
3. 21G3ACST3 - Linear Programming
4. 21G4ACST4 - Linear Algebra

BBA

21G2AC02 - Mathematics for Management

BSc - IT & BCA

21 G1AC1/21G1ACT1 - Discrete Mathematics

21 G2AC12/21G2ACT2 - Operations Research

Other Suggestions:

1. Credit distribution may be in proportion to number of hrs/Core/allied/elective
 - a. Core paper more teaching hours - more credits.
 - b. Allied paper - comparatively less
 - c. Then elective.
2. 10% Self Study may be in the application level not in the beginning (Unit I) for PC.
3. At PC level we should concentrate on UAC/CSIR/Research, too much weightage is given for library - 10 hrs (3 hr/semester for I PC and 2 hr/semester for II PC) that may be avoided and more papers may be introduced.
4. As we have to support the students to identify Companies/organizations for internship, it is difficult in first year PC, it should not be compulsory.
5. offering interdisciplinary papers (EDC) at PC level may dilute the core Curriculum
6. In II semester, project should be monitored by the staff, working hours may be given
7. Instead of giving internship in first year and Project in II year (PC) students

may be given option. Students those who are interested in getting jobs and pursuing higher studies can do internship and Project respectively

8. For OBE 60% internal, 30% External and 10% Survey, TANSCAE guidelines CIA - 25% and 75% External. Discuss about your 40% CIA and 60% External.
9. For Reference, the latest edition may be given

<u>Name</u>	<u>Signature</u>
1. Mrs. A. Paulin Mary	A. Paulin
2. Dr. Pandia Raja	
3. Dr. M. Navaneethakrishnan	M. Navaneethakrishnan
4. Dr. D. Mukharamakrishnan	D. Mukharamakrishnan
5. Ms. S. Sindhuja	
6. Dr. K.P.V. Preethi	V. Preethi
7. Dr. N. Malathi	N. Malathi
8. Mrs. A. Sheela Roselin	A. Sheela Roselin
9. Dr. Sr. M. Fatima Mary	M. Fatima Mary
10. Dr. C. Prasanna Devi	C. Prasanna Devi

11. Dr. E. Helena	Helena
12. Mrs. Nigile Ragavan	Nigile
13. Mrs. M. Teresa Nirmala	M. Teresa Nirmala
14. Dr. V. Vaniltha	V. Vaniltha
15. Mrs. R. Jenovi Rosary Deepa	R. Jenovi
16. Mrs. B. Veltamany Jacqueline	B. Veltamany
17. Mrs. J. Annal Mercy	J. Annal

10/04/2021