

J. J. COLLEGE OF ARTS AND SCIENCE (Autonomous), Sivapuram, Pudukkottai – 622 422

(Re-Accredited by NAAC – B⁺⁺-4th Cycle)

Affiliated to Bharathidasan University, Tiruchirappalli

DEPARTMENT OF MATHEMATICS

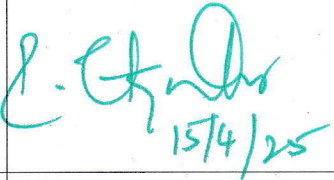
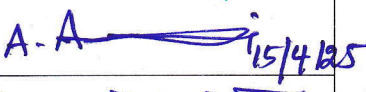
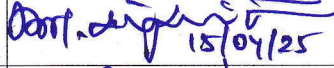
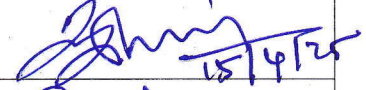
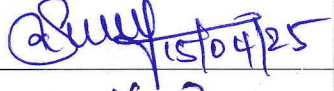
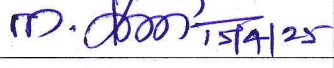
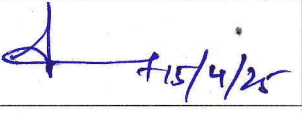
Minutes of the Board of Studies Meeting

Meeting No.: 10

Date: 15 – 04 – 2025

The Meeting of the Board of Studies in Mathematics (U.G. and P.G.) was held at 01.00 p.m. on 15.04.2025 to evaluate the Revision (R3) of the curriculum implemented from 2023-2024.

Members Present:

S.No.	Name	Designation	Signature
1.	Dr. O. Uma Maheswari Assistant Professor and Head Department of Mathematics	Chairman	
2.	Dr. N.Rajesh Associate Professor, Department of Mathematics, Rajah Serfoji Govt. College(A) Thanjavur- 613 005	University Nominee	
3.	Dr. N. Anbazhagan Professor and Head, Department of Mathematics, Alagappa University, Karaikudi.	Subject Expert	
4.	Dr. R. Uthayakumar Senior Professor, Department of Mathematics, School of Sciences, Gandhigram Rural Institute, Gandhigram, Dindigul	Subject Expert	
5.	Mr. A. Anandaraj Assistant Professor	Member	
6.	Mr. G. Santhoshkumar Assistant Professor	Member	
7.	Mr. K. Arun Assistant Professor	Member	
8.	Ms. S. Kanaka Assistant Professor	Member	
9.	Dr. M. Kavitha Assistant Professor	Member	
10.	Ms. B. Kavitha PG Assistant, Govt. Hr. Sec. School, Nagudi Arandhangi TK, Pudukkottai Dt.	Representative from Industry	
11.	Ms. MD. Midra Deputy Nazir in Judicial Department Pudukkottai Dt.	Alumni	

This **Tenth Meeting of the Board of Studies in Mathematics** was held on April 15, 2025 at 01.00 p.m. The meeting commenced with the Chairman of the Board of studies welcoming and introducing the new members to the other members. The **Sixth Revised Curricula** were implemented from the Academic year 2023-2024.

To Review the implementation of these curricula, Courses and Syllabi thereof, this meeting of the Board of Studies in Mathematics was convened.

The following resolutions were discussed and passed.

1. It is resolved to introduce a course titled **“Health and Wellness ”- U3R3HW**(under Part- V) in the third semester of the U.G Programme for students admitted from the Academic Year 2024-2025 in keeping with the instructions from the Parent University. (Vide. Letter from Registrar i/c No.692/CCCD/BDU/C-1/2024, dated 30.12.2024). The syllabus will be as indicated by TANSCH and the evaluation would be as follows, with no formal examination.

Activities (Observation during Practice) : 40 Marks

Attendance : 20 Marks

Report : 40 Marks

The weightage for this course will be 01 credit – 02 teaching hours per week.

2. To review the existing curricula and courses and make changes wherever necessary in the light of stakeholder’s feedback.

3. It is resolved to motivate the Students to do concurrent Courses under SWAYAM / MOOCS.

4. It is resolved to continue with the Value Added Courses offered by the Department with modifications, wherever necessary.

5. It is Resolved to modify and follow a total of 44 courses, 4400 marks with 142 credits for the U.G. Programmes and 22 courses, 2200 marks with 90 credits for the P.G. Programmes.

1. *D. Uma* 15/4/25
[Dr. D. Uma Maheswari]
2. *N. Rajesh* 15/4/25
Dr. N. RAJESH M.Sc., M.Phil., Ph.D.
Associate Professor of Mathematics
Rajawade College (Autonomous)
TANJAVUR - 613 005.
3. *Anbazhagan* 15.04.25
Dr. N. Anbazhagan
4. *R. Uthayakumar* 15/4/25
Dr. R. Uthayakumar
Senior Professor,
Department of Mathematics
School of Sciences
Gandhigram Rural Institute
Gandhigram, Dindur
5. *A. Anandarat* 15/4/25
(A. ANANDARAT)
6. *G. Santhosh* 15/4/25
(G. SANTHOSH)
7. *S. Kanaka* 15/4/25
(S. KANAKA)
8. *S. Kanaka* 15/4/25
(S. KANAKA)
9. *M. Kavitha* 15/4/25
(Dr. M. Kavitha)
10. *B. Kavitha* 15/4/25
(Ms. B. Kavitha)
11. *M. M. Midra* 15/4/25
(Ms. M. M. Midra)

Distribution of Courses - U.G.

Sl.No.	Part	Courses	No. of Courses	No. of Credits	Marks
1.	I	Language Courses	4	12	400
2.	II	English Courses	4	12	400
3.	III	Core Courses	14	65	1400
5.		Project Work	1	04	100
6.		Discipline Specific Elective Courses	8	24	800
7.	IV	Internship	1	02	100
8.		Skill Enhancement Courses	7	14	700
9.		Value Education	1	02	100
10.		Environmental Studies	1	02	100
11.		Foundation Course	1	02	100
12.	V	Health and Wellness	1	01	100
13.		Gender Studies	1	01	100
14.		Extension Activity	-	01	-
Total			44	142	4400

Distribution of Courses - P.G.

Sl.No.	Types of the Courses	No. of Courses	No. of Credits	Marks
1.	Core Courses	13	63	1300
2.	Project Work	01	05	100
3.	Discipline Specific Elective Courses	05	15	500
4.	Internship	01	03	100
5.	Skill Enhancement Courses	02	04	200
Total		22	90	2200

1. D. Uma 15/4/25
 [Dr. O. Uma Maheswari]
 2. N. Rajesh 15/4/25
 Dr. N. RAJESH M.Sc., M.Phil., Ph.D.
 Associate Professor of Mathematics
 Rajah Serfoji Govt. College (Autonomous)
 THANJAVUR - 613 005.
 3. N. Anbazhagan 15/4/25
 (Dr. N. Anbazhagan)
 4. R. Uthayakumar 15/4/25
 Dr. R. Uthayakumar
 Senior Professor,
 Department of Mathem
 school of sciences,
 Gandhigram Rural Insit
 Gandhigram, Dindigul
 5. A. A. 15/4/25
 [A. ANANDARAJ]
 6. S. Kanaka 15/4/25
 (S. KANAKA)
 7. M. Kavitha 15/4/25
 (Ms. B. Kavitha)
 8. M. D. Midra 15/4/25
 (Ms. M.D. Midra)
 9. M. Kavitha 15/4/25
 (Dr. M. Kavitha)

6. It is resolved to remove certain sections from the following Courses in PG Mathematics as well as from courses offered to Other departments (CC,DSE,SEC)

P2R3MACC6 - Partial Differential Equations

P3R3MACC10 - Numerical Analysis

P1R3BACC2 - Quantitative Techniques and Research Methods in Business

P2R3BACC7 - Applied Operations Research

P3R3CSDSE3 - Optimization Techniques

U2R3ITSEC3 - Quantitative Aptitude

7. It is resolved to continue with the current Curricula, as they have been found to be effective in their implementation.

1. D. Uma 15/4/25
[Dr. D. Uma Maheswari]

2. H. Rajesh 15/4/25
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3. N. Anbazhagan 15.04.25
[Dr. N. Anbazhagan]

4. R. Uthayakumar 15/4/25
Dr. R. Uthayakumar
Senior Professor
Department of Mathematics
School of Science
Grandhiyaram Rural Institute
Grandhiyaram, Dindigul

5. A. Anandaraj 15/4/25
[A. ANANDARAJ]

6. S. Santhoshkumar 15/4/25
[S. SANTHOSHKUMAR]

7. S. Kanakaj 15/4/25
[S. KANAKAJ]

9. M. Kavitha 15/4/25
[Dr. M. Kavitha]

10. B. Kavitha 15/4/25
[Ms. B. Kavitha]

11. M. Midra 15/4/25
[Ms. M.D. Midra]

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J.J.Nagar, Sivapuram Post, Pudukkottai - 622 422

B.Sc. MATHEMATICS

**Proposed Course structure based on TANSCH and UGC-LOCF
(Choice Based Credit System)**

Applicable for the candidates admitted from the academic year 2025-2026 onwards

Sem	Part	Course Code	Course Title	Hrs/ Week	Credi t	Exam Hrs.	Marks		Total Marks
							Int.	Ext.	
I	I	U1R3RTL1	Language Course – I	6	3	3	25	75	100
	II	U1R3REL1	English Language Course – I	6	3	3	25	75	100
	III	U1R3MACC1	Algebra and Trigonometry	5	5	3	25	75	100
		U1R3MACC2	Differential Calculus	5	5	3	25	75	100
		U1R3 MADSE1:1/ 1:2	Numerical Methods with Applications / Mathematical Statistics	4	3	3	25	75	100
	IV	U1R3CSSEC1(NM E)	SEC-1 (To be opted from other department)	2	2	3	25	75	100
		U1R3MAFC	FC-Bridge Mathematics	2	2	3	25	75	100
Total				30	23	-	-	-	700
II	I	U2R3RTL2	Language Course – II	6	3	3	25	75	100
	II	U2R3REL2	English Language Course – II	6	3	3	25	75	100
	III	U2R3MACC3	Analytical Geometry(2D&3D)	5	5	3	25	75	100
		U2R3MACC4	Integral Calculus	5	5	3	25	75	100
		U2R3 MADSE2:1P/ 2:2	R Programming-Practical/ Discrete mathematics	4	3	3	40/2 5	60/7 5	100
	IV	U2R3SEC2(NME)	SEC-2 (To be opted from other department)	2	2	3	25	75	100
		U2R3MASEC3	A Prime on Divisibility and Number Sequences	2	2	3	25	75	100
Total				30	23	-	-	-	700
III	I	U3R3RTL3	Language Course – III	6	3	3	25	75	100
	II	U3R3REL3	English Language Course – III	6	3	3	25	75	100
	III	U3R3MACC5	Vector Calculus and Fourier Series	5	5	3	25	75	100
		U3R3MACC6	Differential Equations and Laplace Transforms	5	5	3	25	75	100
		U3R3 MADSE3:1/ 3:2	Allied Physics-I/ Allied Chemistry-I	4	3	3	25	75	100
	IV	U3R3MASEC4:1/ 4:2	Data Analysis using SageMath/ Computational Mathematics	2	2	3	25	75	100
		U3R3VE	Value Education	2	2	3	25	75	100

	V	U3R3HW	Health and Wellness	-	1	-	-	-	100
Total				30	24	-	-	-	800
IV	I	U4R3RTL4	Language Course – IV	5	3	3	25	75	100
	II	U4R3REL4	English Course – IV	5	3	3	25	75	100
	III	U4R3MACC7	Sequences and Series	6	5	3	25	75	100
		U4R3MACC8	Classical Algebra and Theory of Numbers	5	5	3	25	75	100
		U4R3 MADSE4:1P /4:2P	Allied Physics- II- Practical Allied Chemistry- II- Practical	3	3	3	40	60	100
	IV	U4R3MASEC5:1/ 5:2	Introduction to GeoGebra/ Theory of Games and Decision Theory	2	2	3	25	75	100
		U4R3MASEC6:1/ 6:2P	Mathematics for Competitive Examination-I/ Data Analysis using SPSS- Practical	2	2	3	25/ 40	75/ 60	100
		U4R3ES	Environmental Studies	2	2	3	25	75	100
Total				30	25	-	-	-	800
Sem	Part	Course Code	Course Title	Hrs/ Week	Credit	Exam Hrs.	Marks		Total Marks
							Int.	Ext.	
V	III	U5R3MACC9	Mechanics	6	5	3	25	75	100
		U5R3MACC10	Abstract Algebra	5	4	3	25	75	100
		U5R3MACC11	Real Analysis	5	4	3	25	75	100
		U5R3MACC12	Operations Research	4	4	3	25	75	100
		U5R3MADSE5:1P / 5:2	Numerical Methods with MATHLAB-Practical / Introduction to Machine Learning	5	3	3	40/ 25	60/ 75	100
		U5R3MADSE6:1/ 6:2	Fuzzy Mathematics / Combinatorial Mathematics	5	3	3	25	75	100
		U5R3MAINT	Internship	-	2	-	-	-	100
Total				30	25	-	-	-	700
VI	III	U6R3MACC13	Linear Algebra	5	4	3	25	75	100
		U6R3MACC14	Complex Analysis	5	4	3	25	75	100
		U6R3MACC15PW	Project Work	6	4	-	-	-	100
		U6R3MADSE7:1P/ 7:2	Programming Language with C++ - Practical / Introduction to Data Science	5	3	3	40/ 25	60/ 75	100
		U6R3MADSE8:1/ 8:2	Astronomy / Graph Theory and its Applications	5	3	3	25	75	100
	IV	U6R3MASEC7:1/	Mathematics for Competitive	3	2	3	25/	75/	100

		7:2P	Examination-II / Introduction to LATEX – Practical				40	60	
	V	U6R3GS	Gender Studies	1	1	3	25	75	100
			Extension Activity	-	1	-	-	-	-
			Extra Credit Online Courses- [SWAYAM-MOOCs]	-	[4]	-	-	-	-
Total				30	22	-	-	-	700
Grand Total				142 [4]					4400

Group C (NME-SEC) (Offered to other Departments)

SEC 1:1 Quantitative Aptitude-I

SEC 1:2 Basic Mathematics

SEC 1:3 Data Analytics by using SPSS

SEC 2:1 Quantitative Aptitude-II

SEC2:2 Statistics with R

SEC2:3 Bio Mathematics

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3. Dr. N. Ambazhagan 15.04.25
4. Dr. R. Uthayakumar 15/4/25
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M.Sc. MATHEMATICS

Proposed Course structure based on TANSCH and UGC-LOCF
(Choice Based Credit System)

Applicable for the candidates admitted from the academic year 2023-2024 onwards

Sem	Course Code	Course Title	Hours/ Week	Credit	Exam Hours	In t.	Ex t.	MAR KS
I	P1R3MACC1	Algebraic Structure	7	5	3	25	75	100
	P1R3MACC2	Real Analysis – I	7	5	3	25	75	100
	P1R3MACC3	Ordinary Differential Equations	6	4	3	25	75	100
	P1R3MADSE1:1/1:2/1:3/1:4P	Number Theory and Cryptography / Graph Theory and Applications / Formal languages and Automata Theory / Programming in C++ and Numerical Methods (Practical)	5	3	3	25 / 40	75 / 60	100
	P1R3MADSE2:1/2:2/2:3/2:4	Lie Groups and Lie Algebras / Mathematical Programming / Fuzzy sets and Their applications / Discrete Mathematics	5	3	3	25	75	100
	TOTAL		30	20				500
II	P2R3MACC4	Advanced Algebra	6	5	3	25	75	100
	P2R3MACC5	Real Analysis – II	6	5	3	25	75	100
	P2R3MACC6	Partial Differential Equations	6	4	3	25	75	100
	P2R3MADSE3:1/3:2/3:3P/3:4	Algebraic Topology / Mathematical statistics / Statistics Data Analysis Using R Programming / Tensor Analysis and Relativity	4	3	3	25 / 40	75 / 60	100
	P2R3MADSE4:1/4:2P/4:3/4:4	Wavelets / Modeling & Simulation with Excel / Machine Learning and AI / Neural Networks	4	3	3	25 / 40	75 / 60	100
	P2R3MASECIP	Mathematical Documentation using LATEX - Practical	4	2	3	40	60	100
	TOTAL		30	22				600

III	P3R3MACC7	Complex Analysis	6	5	3	25	75	100
	P3R3MACC8	Fluid Dynamics	6	5	3	25	75	100
	P3R3MACC9	Topology	6	5	3	25	75	100
	P3R3MACC10	Numerical Analysis	6	5	3	25	75	100
	P3R3MADSE5:1/ 5:2/5:3/5:4P	Calculus of Variations and Integral Equations/ Advanced Number Theory / Ethical Attitude in Mathematical Research/ Programming in MATHLAB (Practical)	3	3	3	25 / 40	75/ 60	100
	P3R3MASEC2:1/ 2:2P	Numerical Ability and Reasoning / Differential Equations using SCILAB	3	2	3	25 /4 0	75/ 60	100
	P3R3MAINT	Internship	-	3	-	-	-	100
		TOTAL	30	28				700
IV	P4R3MACC11	Functional Analysis	6	5	3	25	75	100
	P4R3MACC12	Differential Geometry	6	5	3	25	75	100
	P4R3MACC13	Stochastic Processes	6	5	3	25	75	100
	P4R3MACC14PW	Project Work	12	5	-	-	-	100
		Extra Credit Online Courses- [SWAYAM-MOOCs]		[4]				
			TOTAL	30	20			
		GRAND TOTAL	90	41				2200

1. Dr. D. Uma Maheswari
15/4/25

2. Dr. N. RAJESH M.Sc., M.Phil., Ph.D.
Associate Professor of Mathematics
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25/04/25

3. Dr. N. Anbazhagan
15.04.25

4. Dr. R. Uthayakumar
15/4/25

5. A. A.
15/4/25
[A. ANANDARAJ]

6. Dr. S. Santhosh Kumar
25/04/25
(S. SANTHOSH KUMAR)

7. Dr. S. Kanaka
15/4/25
(S. KANAKA)

8. Dr. S. Kanaka
15/04/25
[S. KANAKA]

9. Dr. M. Kavitha
15/4/25

Dr. M. Kavitha (Ms. B. Kavitha)

10. Dr. M. Kavitha
15/4/25

11. Dr. M. Kavitha
15/4/25
(Ms. M.D. Midra)