

J. J. COLLEGE OF ARTS AND SCIENCE (Autonomous)
Sivapuram, Pudukkottai – 622 422
(Re-Accredited by NAAC – 4th Cycle)
Affiliated to Bharathidasan University, Tiruchirappalli
DEPARTMENT OF MATHEMATICS

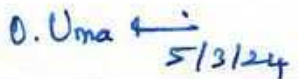
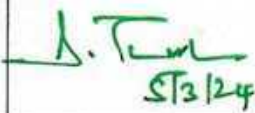
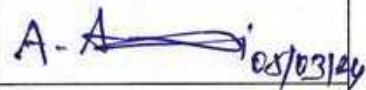
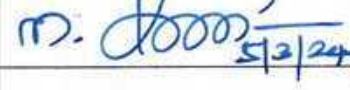
Minutes of the Board of Studies Meeting

Meeting No.: 09

Date: 05 – 03 – 2024

The Meeting of the Board of Studies in Mathematics (U.G. and P.G.) for the **sixth revision of the curricula** to be implemented from **2023-2024**, was conducted at 11.00 a.m. on Tuesday, 05.03.2024

Members Present:

S.No.	Name	Designation	Signature
1.	Dr. O. Uma Maheswari Assistant Professor and Head Department of Mathematics	Chairman	 5/3/24
2.	Dr. A. Tamilselvan Professor and Head Department of Mathematics, Chair school of Mathematical Science Bharathidasan University, Tiruchirappalli.	University Nominee	 5/3/24
3.	Dr. N. Anbazhagan Professor and Head, Department of Mathematics, Alagappa University, Karaikudi.	Subject Expert	 05.03.24
4.	Dr. P. Pandiyan Professor and Head, Department of Statistics, Annamalai University Annamalai Nagar.	Subject Expert	 5/3/24
5.	Mr. A. Anandaraj Assistant Professor	Member	 05/03/24
6.	Mr. K. Arun Assistant Professor	Member	 5/3/24
7.	Ms. S. Kanaka Assistant Professor	Member	 5/3/24
8.	Dr. M. Kavitha Assistant Professor	Member	 5/3/24
9.	Ms. R. Rajakumari PG Assistant in Mathematics, Government Higher Secondary School, Malaiyur.	Representative from Industry	ABSENT
10.	Ms. P. Revathi D/O VR. Pannerselvam 7/6 Perumalpuram street, Konapet Thirumayam(TK), Pudukkottai	Alumnus	ABSENT

The Chairman, Dr.O. Uma Maheswari chaired the meeting and welcomed all the members to the Ninth BOS Meeting. After the brief introduction the following resolutions were passed.

1. In his notification No: 1616, dated 10.08.2021, the Chief Secretary, Department of Higher Education, Government of Tamil Nadu, has given the Autonomous Colleges, the freedom to retain / reframe their syllabi, Course Structure etc., in keeping with their perceptions on Institutional / local needs.
2. The College Council at its meeting held on 16.09.2023 resolved that our Institution will gratefully accept the academic freedom and empower the Boards of Studies either to retain or to reframe their Curriculum for various Programmes under CBCS and UGC- LOCF.
3. However, the Course Structure for the U.G.& P.G. Programmes at Institutional level will have to follow a uniform pattern with minor variations depending on the discipline specific needs.
4. It is Resolved to modify and follow a total of 43 courses, 4300 marks and 141 credits for the U.G. Programmes and ~~22~~ courses, ~~2200~~ marks and 90 credits for the P.G. Programmes.

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	Gender Studies	1	01	100
13.		Extension Activity	-	01	-
Total			43	141	4300

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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

5. The Revised Syllabus has been implemented from the Academic Year 2023 – 2024 onwards. In the previous Boards of Studies meeting, the Syllabus for first two Semesters have been passed. Now in the light of the Government Communication, cited in Point No. 1, the Chairman of the Boards of Studies have introduced some changes in the Syllabus for Semester I and Semester II. Such modifications are approved and passed by this Board.
6. The Course Structure mentioned in Point No: 4 for U.G.& P.G.Programmes have already been approved and passed by the Board of studies on 02.05.2023
7. In the present revision and modification, the General instructions on Curriculum Design, Course Structure, Uniformity of standards etc., given by the UGC - LOCF, AICTE, NAAC, TANSCH and the Parent University have been scrupulously followed.
8. Following the suggestion given by the Honorable members of the Academic Council in its last meeting, a course on Gender Studies has been included.
9. Resolved to include various online courses like SWAYAM - MOOCs with extra credits. The credits thus earned will be reflected in the Cumulative Mark Statement of the students.
10. Resolved to continue offering Value Added Courses.
11. List the Courses newly introduced in UG & PG and details of Percentage of Revision carried out as an appendix.
12. **Resolved to have the following Core Courses for B.Sc. Mathematics Semester wise:**

SEMESTER I

1. Algebra and Trigonometry (It is the Core Course of previous curriculum but the unit contents are changed)
2. Differential Calculus (It is the Core Course of previous curriculum but title and unit contents are changed)

SEMESTER II

1. Analytical Geometry(2D &3D) (It is the Core Course of previous curriculum but the unit contents are changed)

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2. Integral Calculus (It is the Core Course of previous curriculum but the title and unit contents are changed)

SEMESTER III

1. Vector Calculus and Fourier Series (It is the Core Course of previous curriculum but the unit contents are changed)
2. Differential Equations and Laplace Transforms (It is the Core Course of previous curriculum but the unit contents are changed)

SEMESTER IV

1. Sequences and Series (It is the DSE Course of previous curriculum retained as it is in Core course)
2. Classical Algebra and Theory of Numbers (This course is newly introduced)

SEMESTER V

1. Mechanics (This course is Retained as it is)
2. Abstract Algebra (It is the Core Course of previous curriculum but the unit contents are changed)
3. Real Analysis (It is the Core Course of previous curriculum but the unit contents are changed)
4. Operations Research (It is the Core Course of previous curriculum retained as it is)

SEMESTER VI

1. Linear Algebra (It is the Core Course of previous curriculum but the unit contents are changed)
2. Complex Analysis (It is the Core Course of previous curriculum but the unit contents are changed)
3. Project Work (This course is in previous curriculum and Retained as it is)

13. Resolved to have the following Discipline Specific Elective Courses for B.Sc. Mathematics

DSE 1

1. Numerical Methods with Applications (This course is in previous curriculum and Retained as it is)
2. Mathematical Statistics (This course is in previous curriculum and Retained as it is)

DSE 2

1. R Programming (Practical) (Retained as it is)
2. Discrete mathematics (This course is newly introduced)

DSE 3 (Passed by Physics and Chemistry Department BoS)

1. Allied Physics-I
2. Allied Chemistry – I

DSE 4 (Passed by Physics and Chemistry Department BoS)

1. Allied Physics-II(Practical)
2. Allied Chemistry-II(Practical)

O. Uma 5/3/24

M. Dhanu 5/3/24

A. Teja

Ravi 5/3/24

S. Sathish

Abhishek 5/3/24

4. Harish 5/3/24

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DSE 5

1. Numerical Methods with MATHLAB (Practical) (This course is in previous curriculum - Retained as it is)
2. Introduction to Machine Learning (This course is newly introduced)

DSE 6

1. Fuzzy Mathematics (This course is in previous curriculum and Retained as it is but Title Changed)
2. Combinatorial Mathematics (This course is in previous curriculum and Retained as it is)

DSE 7

1. Programming language with C++ (Practical) (This course is newly introduced)
2. Introduction to Data science (This course is newly introduced)

DSE 8

1. Astronomy (This course is in previous curriculum and Retained as it is)
2. Graph theory and Applications (This course is in previous curriculum - Retained as it is)

14. Resolved to have the following Skill Enhancement Courses for B.Sc. Mathematics

SEMESTER I (NME) [offered to other Department]

- 1) Quantitative Aptitude-I (This course is in previous curriculum and Retained as it is)
- 2) Basic Mathematics (This course is in previous curriculum and Retained as it is)
- 3) Data analysis using R Programming (Practical) (It is newly Introduced)

SEMESTER II (NME) [offered to other Department]

- 4) Quantitative Aptitude-II (This course is in previous curriculum and Retained as it is)
- 5) Statistics with SPSS(Practical) (It is newly Introduced)
- 6) Bio Statistics (This course is in previous curriculum and Retained as it is)

SEMESTER II to VI (SEC 3 to SEC 7)

SEC 3

1. A Prime on Divisibility and Number Sequences (This course is in previous curriculum and Retained as it is)

SEC 4

1. Data Analysis using SageMath (It is newly Introduced)
2. Computational Mathematics (It is newly Introduced)

SEC 5

1. Introduction to GeoGebra (It is newly Introduced)

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2. Theory of Games and Decision Theory (This course is in previous curriculum and Retained as it is)

SEC 6

1. Mathematics for Competitive Examination- I (This course is in previous curriculum and Retained as it is)
2. Data Analysis using SPSS (Practical) (It is newly Introduced)

SEC 7

1. Mathematics for Competitive Examination- II (It is newly Introduced)
2. Introduction to LATEX (Practical) (It is newly Introduced)

15. Resolved to introduce Internship for UG in the fifth semester (Carried out in IV Semester Vacation) and Internship for PG in third Semester (during the II Semester vacation)

16. Resolved to introduce the Foundation Course - Bridge Mathematics in Semester I

17. Resolved to have the following Core Courses for M.Sc. Mathematics

SEMESTER I

1. Algebraic structures (It is the Core Course of previous curriculum but the unit contents are changed)
2. Real Analysis- I (This course is newly introduced with same Title)
3. Ordinary Differential Equations (This course is in previous curriculum -Retained as it is)

SEMESTER II

1. Advanced Algebra (This course is newly introduced)
2. Real analysis-II (This course is newly introduced with same title)
3. Partial Differential Equations (This course is newly introduced with same Title)

SEMESTER III

1. Complex Analysis (This course is in previous curriculum -Retained as it is)
2. Fluid Dynamics (This course is newly introduced)
4. Topology (It is the Core Course of previous curriculum but the unit contents are changed)
3. Numerical Analysis (This course is newly introduced)

SEMESTER IV

1. Functional Analysis (This course is in previous curriculum -Retained as it is)
2. Differential Geometry (This course is newly introduced)
3. Stochastic Processes (This course is in previous curriculum -Retained as it is)
4. Project Work (This course is in previous curriculum -Retained as it is)

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18. Resolved to have the following Discipline Specific Elective Courses, Skill Enhancement Courses and Generic Elective Courses for M.Sc. Mathematics Semester wise

SEMESTER I

DSE I

1. Number theory and Cryptography (This course is newly introduced)
2. Graph theory and Applications (This course is newly introduced)
3. Formal Languages and Automata Theory (This course is newly introduced)
4. Programming in C++ and Numerical methods (Practical) (This course is newly introduced)

DSE II

1. Lie Groups and Lie Algebras (This course is newly introduced)
2. Mathematical Programming (It is the Core Course of previous curriculum but the title and unit contents are changed)
3. Fuzzy sets and their Applications ((It is the Core Course of previous curriculum but the unit contents are changed)
4. Discrete Mathematics (This course is newly introduced)

SEMESTER II

DSE III

1. Algebraic topology (This course is newly introduced)
2. Mathematical statistics (This course is in previous curriculum -Retained as it is)
3. Statistics data analysis using R Programming (Practical) (This course is newly introduced)
4. Tensor analysis and Relativity (This course is newly introduced)

DSE IV

1. Wavelets (This course is newly introduced)
2. Modeling and Simulation with Excel (This course is newly introduced)
3. Machine Learning and Artificial Intelligence (This course is newly introduced)
4. Neural Networks (This course is newly introduced)

SEMESTER III

DSE V

1. Calculus of Variations and Integral Equations (This course is in previous curriculum -Retained as it is)
2. Advanced Number theory (This course is newly introduced)
3. Ethical Attitude in Mathematical Research (This course is in previous curriculum - Retained as it is)
4. Programming in MATHLAB (Practical) (This course is in previous curriculum - Retained as it is)

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19. Resolved to have the following Skill Enhancement Courses for M.Sc. Mathematics Semester wise

Skill Enhancement Courses

SEC1P- Mathematical Documentation using LATEX-Practical (This course is newly introduced)

SEC2:1- Numerical Ability and Reasoning (This course is newly introduced)

SEC2:2P- Differential Equations using SCILAB-Practical (This course is newly introduced)

20. Resolved to offer the following Core/ Elective courses for B.Sc Computer Science/ B.Sc. Information Technology/ BCA, B.Sc. Bio Chemistry, B.Sc. Physics and Chemistry, B.Com, BBA and MBA Programmes

B.Sc. Computer Science

1. Numerical Methods (It is the Core Course of previous curriculum but the title and unit contents are changed)
2. Statistical Analysis using R – (This course is newly introduced)
3. Graph theory and its applications - (This course is newly introduced)

B.Sc. Information Technology

1. Numerical Methods (It is the Core Course of previous curriculum but the title and unit contents are changed)

BCA

1. Discrete Mathematics-I (This course is newly introduced)
2. Statistical Methods and its Applications-I (This course is newly introduced)
3. Numerical Methods (It is the Core Course of previous curriculum but the title and unit contents are changed)
4. Discrete Mathematics-II (This course is newly introduced)
5. Statistical Methods and its Applications-II (This course is newly introduced)
6. Graph theory and its applications - (This course is newly introduced)

B.Sc. Physics/ Chemistry

1. Allied Mathematics-I- (This course is in previous curriculum -Retained as it is)
2. Allied Mathematics- II- (This course is in previous curriculum -Retained as it is)

B.Sc. Biochemistry

1. Biostatistics (This course is in previous curriculum -Retained as it is)

B.Com.

1. Business Mathematics and Statistics (This course is newly introduced)

BBA

1. Business statistics (It is the Core Course of previous curriculum but the title and unit contents are changed)
2. Quantitative Aptitude-I (This course is newly introduced)

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3. Operations Research (It is the Core Course of previous curriculum but the unit contents are changed)
4. Quantitative Aptitude – II (This course is newly introduced)

MBA

1. Quantitative Techniques and Research Methods in Business (This course is newly introduced)
2. Applied Operations Research (It is the Core Course of previous curriculum but the title and unit contents are changed)

M. Sc. Biochemistry

1. Biostatistics and Data Science (This course is newly introduced)

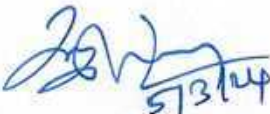

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B.Sc. MATHEMATICS

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

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

Sem.	Part	Course Code	Course Title	Hrs/ Week	Credit	Exam Hrs.	Marks		Total Marks
							Int.	Ext.	
I	I	U1R3TL1	Language Course – I	6	3	3	25	75	100
	II	U1R3EL1	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
		U1R3CSSEC1(NME)	SEC-1 Office Automation	2	2	3	25	75	100
		U1R3MAFC	FC-Bridge Mathematics	2	2	3	25	75	100
Total				30	23	-	-	-	700
II	I	U2R3TL2	Language Course – II	6	3	3	25	75	100
	II	U2R3EL2	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	40/25	60/75	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	U3R3TL3	Language Course – III	6	3	3	25	75	100
	II	U3R3EL3	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
Total				30	23	-	-	-	700

IV	I	U4R3TL4	Language Course – IV	5	3	3	25	75	100
	II	U4R3EL4	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	-	-	-
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/ 7:2P	Mathematics for Competitive Examination-II / Introduction to LATEX – Practical	3	2	3	25/ 40	75/ 60	100
	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			141 [4]					4300

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

1. Quantitative Aptitude-I
2. Basic Mathematics
3. Quantitative Aptitude-II
4. Statistics with R/ SPSS
5. Bio Mathematics
6. Data Analysis by using SPSS

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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	Int .	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
	P2R2MADSE4:1 /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
	P2R3MADSE5:1/ 5:2/5:3/5:4P	Calculus of Variations and Integral Equations/ Advanced Number Theory / Ethical Attitude in Mathematical Research/	3	3	3	25/ 40	75/ 60	100

		Programming in MATLAB (Practical)						
	P3R3MASEC2:1/ 2:2P	Numerical Ability and Reasoning / Differential Equations using SCILAB	3	2	3	25/ 40	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				300
		GRAND TOTAL	90[4]					2200

A. Tamil Selvan
(A. TAMILSELVAN)
05/03/24

3. *[Signature]*

4. *[Signature]*
SPW

O. Uma
5/3/24

[Signature]
5/3/24

A. A
05/03/24

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5/3/24

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5/3/24