

PG AND RESEARCH DEPARTMENT OF MATHEMATICS

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

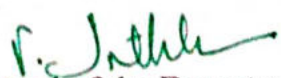
POLLACHI

14th Board of Studies Meeting in the Department of
Mathematics

Date & Time: 24/06/2023 & 10.00 A.M.

Agenda

BoS / DM 14.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the DEPARTMENT OF MATHEMATICS
BoS / DM 14.2	:	Confirmation of the Minutes of the 13 th / Previous meeting of Board of studies in the DEPARTMENT OF MATHEMATICS 1held on 04/06/2022 and Action taken report of 13 th meeting of Board of studies
BoS / DM 14.3	:	14.3.1 Syllabus of I B.Sc. MATHEMATICS under Regulation 2023
		14.3.2 Syllabus of II B.Sc. MATHEMATICS under Regulation 2023
		14.3.3 Syllabus of III B.Sc. MATHEMATICS under Regulation 2023
		14.3.4 Syllabus of I M.Sc. MATHEMATICS under Regulation 2023.
		14.3.5 Syllabus of II M.Sc. MATHEMATICS under Regulation 2023.
BoS / DM 14.4	:	Suggestion given by BOS Members
BoS / DM 14.5	:	


Head of the Department

Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
Department of Mathematics
N.G.M College, Pollachi - 642 001.


Principal
Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
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N.G.M. College, Pollachi - 642 001
Coimbatore District

**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI**

DEPARTMENT OF MATHEMATICS

MINUTES OF BOS MEETING

The 14th Meeting of the Board of studies of the Department of Mathematics was held on 24/06/2023 at
10.00 a.m. in the Department of
Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi-642 001

1. BoS Members:

1.	Dr. V. INTHUMATHI Associate Professor and Head	Chairman
2.	Dr. J. JAYASUDHA Assistant Professor	Internal Members
3.	Dr. R. SANTHI Assistant Professor	
4.	Dr. V. CHITRA Assistant Professor	
5.	Dr. S. SIVASANKAR Assistant Professor	
6.	Mr. P. SIRAVANAN Assistant Professor	
7.	Dr. S. KALEESWARI Assistant Professor	
8.	Mrs. A. GNANASOUNDARI Assistant Professor	
9.	Dr. N. SELVANAYAKI Assistant Professor	
10.	Dr. M. MAHESWARI Assistant Professor	
11.	Mrs. M. AMSAVENI Guest Lecturer	
12.	Dr. N. JAYANTHI Associate Professor & Head Department of Mathematics Govt. Arts College(Autonomous) Coimbatore-18	University Nominee
13.	Dr. R. ANGEL JOY Associate Professor and Head Department of Mathematics Sri GVG Visalakshi College for Women (Autonomous) Udumalpet- 642 128 Mobile No. : 94434 21436	Academic Experts

14.	Dr. S. MARAGATHAVALLI Assistant Professor Department of Mathematics Government Arts College Udumalpet-642 126 Mobile No.:99943 28775	Special Invitee
15.	Dr. M. SIVASUBRAMANIAN Assistant Professor Department of Mathematics Government Arts College Udumalpet-642 126 Mobile No.: 90955 42186	Alumni
16.	Ms. C. KOWSALYAHARISHANTHI 115b, KaliyammanKovil Street Pakkothipalayam Suleeswan Patti(PO) Pollachi - 642 006 Mobile No. : 63747 86242	Student Members
17.	Ms. H. HARITHA Paruthikkad Kalam Muthalamada Govindhapuram(P.O.) Palakkad-678 507 Mobile No. : 94003 13833	



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BoS/DM 14.1 WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF MATHEMATICS

The Chairman, BoS of the Department of Mathematics welcomed and introduced the members of 14th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/DM14.2 TO CONFIRM THE MINUTES OF 13th BOS MEETING HELD ON 04/06/2022. The minutes of the 13th Board of Studies meeting held on 04/06/2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 13th Academic council.

~ Action Taken Report (Enclosed in Annexure 1)



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BoS/DM 14.3

BoS/DM 14.3.1

- We revisit the syllabi for B.Sc. Mathematics Programme
Further the course titles of the following Ancillary papers namely
 1. Ancillary Mathematics for Physics-I,
 2. Ancillary Mathematics for Chemistry-I
 3. Ancillary Mathematics for Physics-II and
 4. Ancillary Mathematics for Chemistry-IIare renamed as
 1. Mathematics for Physics-I,
 2. Mathematics for Chemistry-I
 3. Mathematics for Physics-II and
 4. Mathematics for Chemistry-II

These changes have been implemented with effect from the academic year 2023-2024 in the respective semesters.

BoS/DM 14.3.4

- We revisit the syllabi for M.Sc. Mathematics Programme

BoS/MA 14.4 SUGGESTIONS GIVEN BY THE BoS MEMBERS

14.4.1: University Nominee Dr. N. Jayanthi and Academic Experts Dr. R. Angel Joy gave the following suggestions:

1. Advised to ensure that the core papers meet the current needs.
2. Suggested to follow the guidelines of Bharathiar university and TNSCHE for further updates.

14.4.2 Special Invitee Dr. S. Maragathavalli appreciated that the existing syllabus is upto satisfaction.

The members had a brainstorming discussion and interaction among themselves.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The syllabus of First Year B.Sc., under Regulation 2023-24
- b) The syllabus of Second Year B.Sc., under Regulation 2023-24
- c) The syllabus of Third Year B.Sc., under Regulation 2023-24
- d) The syllabus of First Year M.Sc., under Regulation 2023-24
- e) The syllabus of Second Year M.Sc., under Regulation 2023-24



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**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
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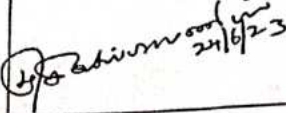
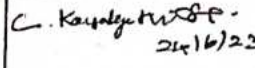
**DEPARTMENT OF MATHEMATICS
MINUTES OF BOS MEETING**

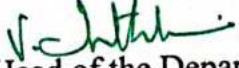
The 14th Meeting of the Board of studies of the Department of Mathematics was held on
24/06/2023 at 10.00 a.m. in the Department of
Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi-642 001

S. No.	Name of the Members	Signature
1.	Dr. V. INTHUMATHI Associate Professor and Head (Chairman)	V. Intthumathi 24/6/2023
2.	Dr. N. JAYANTHI Associate Professor and Head Department of Mathematics Govt. Arts College(Autonomous) Coimbatore-18 Mobile No.: 98942 80271 (University Nominee)	N. Jayanthi 24.6.23
3.	Dr. R. ANGEL JOY Associate Professor and Head Department of Mathematics Sri GVG Visalakshi College for Women (Autonomous) Udumalpet - 642 128 Mobile No. : 94434 21436 (Subject Expert for both UG & PG)	R. Angel Joy 24/6/23
4.	Dr. S. MARAGATHAVALLI Assistant Professor Department of Mathematics Government Arts College Udumalpet-642 126 Mobile No.: 99943 28775 (Academic Auditor for both UG & PG)	S. Maragathavalli 24/6/23
5.	Dr. M. SIVASUBRAMANIAN Assistant Professor Department of Mathematics Government Arts College Udumalpet-642 126 Mobile No.: 90955 42186 (Alumni)	M. Sivasubramanian 24/6/23

Members of BOS:

1.	Chairman Dr. V. INTHUMATHI Associate Professor and Head	<i>V. Intthumathi</i> 24/06/2023
	Internal Members	
2.	Dr. J. JAYASUDHA Associate Professor	<i>J. Jayasudha</i> 24/06/2023
3.	Dr. R. SANTHI Associate Professor	<i>R. Santhi</i> 24/06/2023
4.	Dr. V. CHITRA Associate Professor	<i>V. Chitra</i> 24/06/2023
5.	Dr. S. SIVASANKAR Associate Professor	<i>S. Sivasankar</i> 24/06/2023
6.	Mr. P. SIRAVANAN Assistant Professor	Not turned up
7.	Dr. S. KALEESWARI Assistant Professor	<i>S. Kaleeswari</i> 24/6/23
8.	Ms. A. GNANASOUNDARI Assistant Professor	Absent (C.L)
9.	Dr. N. SELVANAYAKI Assistant Professor	Absent (C.L)
10.	Dr. M. MAHESWARI Assistant Professor	<i>M. Mall</i> 24/06/23
11.	Ms. M. AMSAVENI Guest Lecturer	<i>M. Amsaveni</i> 24/6/23
12.	University Nominee Dr. N. JAYANTHI Associate Professor and Head Department of Mathematics Govt. Arts College(Autonomous) Coimbatore-18	<i>Dr. N. Jayanthi</i> Dr.N.JAYANTHI, M.Sc., M.Phil., Ph.D., Associate Professor & HOD PG Research Dept. of Mathematics Govt. Arts College (Autonomous) Coimbatore
13.	Subject Expert Dr. R. ANGEL JOY Associate Professor and Head Department of Mathematics Sri GVG Visalakshi College for Women (Autonomous) Udumalpet - 642 128 Mobile No. : 94434 21436	<i>R. Angel Joy</i> 24/6/23.
14.	Academic Auditor(UG & PG) Dr. S. MARAGATHAVALLI Assistant Professor Department of Mathematics Government Arts College Udumalpet-642 126 Mobile No.: 99943 28775	<i>S. Maragathavalli</i> 24/6/23

15	Alumni Dr. M. SIVASUBRAMANIAN Assistant Professor Department of Mathematics Government Arts College Udumalpet-642 126 Mobile No.: 90955 42186	 24/6/23
	Student Members	
16	Ms. C. KOWSALYAHARISHANTHI 115b, Kaliyammankovil Street Pakkothipalayam Suleeswan Patti(PO) Pollachi - 642 006 Mobile No. : 63747 86242	 24/6/23
17	Ms. HARITHA.H Paruthikkad kalam Muthalamada Govindhapuram(p.o) Palakkad-678507 Mob:94003 13833	 24/6/23

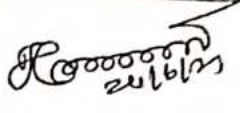
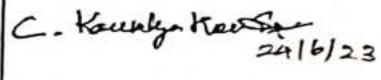

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Members Present:

Chairman	
Dr. V. INTHUMATHI (Chairman)	V. Intu 24/06/2023
Internal Members	
Dr. J. JAYASUDHA Associate Professor	J. Jayasudha 24/06/2023
Dr. R. SANTHI Associate Professor	R. Santhi 24/6/23
Dr. V. CHITRA Associate Professor	V. Chitra 24/6/23
Dr. S. SIVASANKAR Associate Professor	S. Sivasankar 24/06/2023
Mr. P. SIRAVANAN Assistant Professor	Not turned up
Dr. S. KALEESWARI Assistant Professor	S. Kaleeswari 24/6/23
Mrs. A. GNANASOUNDARI Assistant Professor	Absent (C.L)
Dr. N. SELVANAYAKI Assistant Professor	Absent (C.L)
Dr. M. MAHESWARI Assistant Professor	M. Maheswari 24/06/23
Mrs. M. AMSAVENI Guest Lecturer	M. Amsaveni 24/6/23
University Nominee	
Dr. N. JAYANTHI Associate Professor and Head Department of Mathematics Govt. Arts College(Autonomous) Coimbatore-18	N. Jayanthi 24.6.23
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Special Invitee	
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ANNEXURE I

Minutes of the 13th Meeting – Action Taken Report

S.No	Suggestion given by expert members	Action taken
1.	Dr. S. Monikandan gave suggestion to introduce certificate courses/valued added courses for PG programs.	Implemented
2.	Ms. K. Kalaivani requested to interchange the scheme of the program in order meet the placement requirements. (Introducing C program in II year)	Implemented
3.	Both Subject Expert Dr. P.S. Sivakumar and Academic Auditor for UG Dr. M. Sivasubramanian - advised to change few topics in some major papers for UG program to enrich the fundamental concepts - Strongly recommends to update the syllabi of Ancillary Mathematics papers for Physics and Chemistry programs.	Implemented


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**List of Courses having focus on local, national, regional and global developmental needs
offered by the Department of Mathematics**

B. Sc.						
Programme: Mathematics					2021 Batch - V and VI Semesters 2022 Batch - III and IV Semesters 2023 Batch - I and II Semesters	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23UMS101	Classical Algebra			✓		School and College teaching
23UMS102	Calculus			✓		School and College teaching
23UMS1A1	Mathematical Statistics-I		✓			UGC, CSIR and NET exams
23UMS203	Trigonometry, Vector Calculus and Fourier Series			✓		School and College teaching
23UMS204	Analytical Geometry			✓		School and College teaching
23UMS2A2	Mathematical Statistics-II		✓			UGC, CSIR and NET exams
23UMS305	Dynamics			✓		School and College teaching
23UMS306	Numerical Techniques				✓	Employability in IT sector
23UMS3N1 / 23UMS3N2	Quantitative Aptitude-I/ Astronomy-I		✓			UGC, CSIR and NET exams
23UMS407	Statics			✓		School and College teaching
23UMS408	Programming in C				✓	Employability in IT sector
23UMS409	Programming lab in C				✓	Employability in IT sector
23UMS4N3 / 23UMS4N4	Quantitative Aptitude-II/ Astronomy-II		✓			UGC, CSIR and NET exams
23UMS510	Modern Algebra				✓	Pursue research
23UMS511	Real Analysis-I				✓	Pursue research

23UMS512	Operations Research-II				✓	Pursue research
23UMS513	Complex Analysis				✓	Pursue research
23UMS5E1	OOP with C++				✓	Employability in IT sector
23UMS5E3	Programming lab in OOP with C++				✓	Employability in IT sector
23UMS614	Linear Algebra				✓	Pursue research
23UMS615	Real Analysis-II				✓	Pursue research
21UMS616	Resource Management Technique				✓	Pursue research
21UMS6E4/ 21UMS6E5	Theory of Numbers/Fuzzy set Theory			✓		School and College teaching
21UMS6E6/ 21UMS6E7	Discrete Mathematics/ Graph Theory			✓		School and College teaching


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M. Sc.						
Programme: Mathematics					2022 Batch - III and IV Semesters 2023 Batch - I and II Semesters	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23PMS101	Algebra				✓	Pursue research
23PMS102	Real Analysis				✓	Pursue research and NET exams
23PMS103	Complex Analysis				✓	Pursue research
23PMS104	Ordinary Differential Equations				✓	Pursue research
23PMS1E1	Matlab				✓	Employability in IT sector
23PMS1E3	Programming Lab in Matlab				✓	Employability in IT sector
23PMS205	Linear Algebra				✓	Pursue research
23PMS206	Mathematical Statistics				✓	Pursue research
23PMS207	Partial Differential Equations				✓	Pursue research
23PMS208	Mechanics				✓	Pursue research
23PMS209	Numerical Analysis				✓	Employability in IT sector
23PMS210	Programming lab in Numerical Analysis using Matlab				✓	Employability in IT sector
23PMS2N1/ 23PMS2N2	Mathematical Statistics and Techniques/ Mathematics in Finance		✓			UGC, CSIR and NET exams
23PMS311	Topology				✓	Pursue research

23PMS312	Functional Analysis				✓	Pursue research
23PMS313	Combinatorics			✓		School and College teaching
23PMS314	Graph Theory		✓			UGC, CSIR and NET exams
23PMS3E1	Latex					
23PMS3E3	Programming Lab in Latex					
23PMS415	Fluid Dynamics		✓			UGC, CSIR and NET exams
23PMS416	Operator Theory		✓			UGC, CSIR and NET exams
23PMS417	Algebraic Topology				✓	Pursue research
23PMS4E1 / 23PMS4E2	Mathematical Methods / Fuzzy Logic and Fuzzy sets		✓			UGC, CSIR and NET exams



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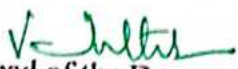
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**List of Courses having focus on employability/ entrepreneurship/ skill development offered
by the Department of Mathematics**

DEPARTMENT OF MATHEMATICS						
Programme: B. Sc. Mathematics					Year: 2023	
Course Code	Course Title	Employability (EM) / Entrepreneurship (EN) / Skill Development (SD)			Focus	Year of Introduction
		EM	EN	SD		
23UMS101	Classical Algebra	✓		✓	To enrich the fundamental concepts of mathematics	
23UMS102	Calculus	✓		✓	Solving Differential equations and Integral equations	
23UMS1A1	Mathematical Statistics-I	✓		✓	Survey, Data Analysis	2013
23UCY1A1	Mathematics for Chemistry-I			✓	To apply mathematical concepts in chemistry	
23UPS1A1	Mathematics for Physics-I			✓	To solve problems related to mathematical physics	
23UMS203	Trigonometry ,Vector Calculus and Fourier Series	✓		✓	Skill development	
23UMS204	Analytical Geometry	✓		✓	Skill development	
23UMS2A2	Mathematical Statistics-II	✓		✓	Survey, Data Analysis	2013
23UCY2A2	Mathematics for Chemistry-II			✓	To apply mathematical concepts in chemistry	
23UCY2A3	Programming Lab for Chemistry using MATLAB		✓		Solving problems & Software Management	
23UPS2A2	Mathematics for Physics-II			✓	To solve problems related to mathematical physics	
23UPS2A3	Programming Lab for Physics using MATLAB		✓		Solving problems & Software Management	
23UMS305	Dynamics			✓	Solving real lifew problems	
23UMS306	Numerical Techniques			✓	Improving problem solving skills and solving numerical problems. Finding accurate solution	2017

23UMS3N1	NME: Quantitative Aptitude-I	✓		✓	Logical & Verbal reasoning	2013
23UMS3N2	NME: Astronomy I		✓		Explore the History of solar system	
23UMS407	Statics	✓			Solving real life problems	
23UMS408	Programming in C	✓		✓	Improve programming knowledge & Software Management	2013
23UMS409	Programming lab in C		✓		Improve programming knowledge & Software Management	
23UMS4N3	Quantitative Aptitude-II	✓		✓	Logical & Verbal reasoning	2013
23UMS4N4	Astronomy-II		✓		Explore the History of Astronomy	
23UMS510	Modern Algebra	✓			Develop the concept of Algebra Structures to pursue further study	
23UMS511	Real Analysis-I	✓			Skill development , problem solving and pursuing research.	
23UMS512	Operations Research	✓		✓	Solving real life problems	2013
23UMS513	Complex Analysis			✓	Pursue research and NET examination	
23UMS5E1	OOP with C++			✓	Software Management	2013
23UMS5E3	Programming lab in OOP with C++			✓	Software Management	
23UMS5AL	Advanced Operations Research-I	✓		✓	Solving real life Problems	
23UMS614	Linear Algebra	✓		✓	Developing the use of Linear Algebra to solve Real time problems as one of the mathematical tool	
23UMS615	Real Analysis-II	✓		✓	Skill development , problem solving and pursuing research.	
23UMS616	Resource Management Technique	✓		✓	Solving real life Problems	2013
23UMS6E4	Theory of Numbers	✓		✓	Solving combinatorial and computational problems	
23UMS6E6	Discrete Mathematics	✓		✓	Solving problems connecting various branches of computer	

					science and mathematics	
23UMS6AL	Advanced Operations Research-II	✓		✓	Solving real life Problems	


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**List of Courses having focus on employability/ entrepreneurship/ skill development offered
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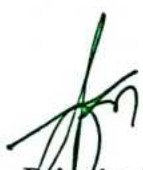
DEPARTMENT OF MATHEMATICS						
Programme: M. Sc., Mathematics					Year: 2023	
Course Code	Course Title	Employability (EM) / Entrepreneurship (EN) / Skill Development (SD)			Focus	Year of Introduction
		EM	EN	SD		
23PMS101	Algebra	✓		✓	Skill development and pursue research	
23PMS102	Real Analysis	✓		✓	Pure research and NET exam	
23PMS103	Complex Analysis			✓	Skill development and pursue research	
23PMS104	Ordinary Differential Equations			✓	Skill development & Solving real life Problems	2013
23PMS1E1	Matlab		✓	✓	Technical Skills on Software Management	2015
23PMS1E2	Special Functions			✓	Solving various classical problems	
23PMS1E3	Programming Lab in MATLAB		✓		Technical Skills on Software Management	
23PMS205	Linear Algebra	✓			Developing the use of Linear Algebra to solve Real time problems as one of the mathematical tool	
23PMS206	Mathematical Statistics	✓	✓	✓	Survey, Data Analysis	2015
23PMS207	Partial Differential Equations			✓	Skill development & Solving real life Problems	2013

23PMS208	Mechanics			✓	Skill development in the field of Physics related to Maths	
23PMS209	Numerical Analysis		✓	✓	Skill development & Solving real life Problems	2015
23PMS210	Programming Lab in Numerical analysis using Matlab		✓		Software Management & Solving real life Problems	2015
23PMS2N1	Mathematical Statistics & Techniques	✓		✓	Survey, Data Analysis	2015
23PMS2N2	Mathematics in Finance		✓	✓	Applying mathematical formulas and equations to financial problems	
23PMS311	Topology	✓			Pursue research	
23PMS312	Functional Analysis			✓	Skill development Problem Solving and applications to real life	
23PMS313	Combinatorics			✓	Skill development (Problem Solving)	2013
23MS314	Graph theory			✓	Develop to use Graph Theory as a modern mathematical tool in various fields.	
23PMS3E1	Latex		✓	✓	Technical Skills to prepare Research Articles	2013
23PMS3E3	Programming Lab in Latex		✓		Technical Skills to prepare Research Articles	2013
23PMS3AL	Algebraic Number Theory				Solving combinatorial and computational problems	

23PMS415	Fluid Dynamics	✓			Solving real life problems and pursue research	
23PMS416	Operator Theory	✓			Improve problem solving skills, creativity and research	
23PMS417	Algebraic Topology	✓			Pursue research	2021
23PMS4E1	Mathematical Methods	✓		✓	Skill development	


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