

# DEPARTMENT OF MATHEMATICS

Govt. college for Women (A),  
Kumbakonam.

30.08.2016

Minutes of the Board of Studies [in  
B.Sc., Mathematics] meeting held on August  
30, 2016 at 11.00 a.m. in the Department of  
Mathematics, Govt. college for Women (A), Kumbakonam

The Board of Studies meeting was conducted  
to discuss the syllabus for B.Sc., Mathematics  
from 2017-2018 onwards.

## Members Present:

1. Dr. C. DURAIRAJAN - University Nominee
2. Dr. K. GUNASEKARAN - Subject Expert
3. Dr. N. SARALA - Subject Expert
4. Thiru. B. Anand - Industrial Person
5. Mst. S. RAJKUMARI - Chairman
6. Dr. R. GIDWRI - Faculty
7. Selvi. G. VEMBARASI - Alumni

The Board discussed and finalised (List enclosed)  
the syllabi for B.Sc., Mathematics for the candidates  
admitted from 2017-2018 onwards.

## I LIST OF CORE COURSES

1. Differential and Integral calculus
2. Analytical Geometry 3D and Trigonometry.
3. Theory of Equations and Vector calculus.
4. Sequences and Series.
5. Mathematical Statistics.
6. Mathematical statistics practical (using SPSS)
7. Abstract Algebra
8. Real Analysis
9. Statics
10. Differential Equations, Laplace Transforms and Fourier Series
11. Complex Analysis
12. Graph Theory
13. Dynamics

## II LIST OF ELECTIVE COURSES:

1. Operations Research
2. Numerical Analysis
3. Discrete Mathematics
4. Astronomy
5. Mathematical Modelling.

## III Non-Major Elective Courses:

- (1) Mathematics for Competitive Examinations - I
- (2) Mathematics for Competitive Examinations - II
- (3) Commercial Mathematics (A), Bio-Statistics.

## IV SKILL BASED:

1. Office Management
2. Office Communication

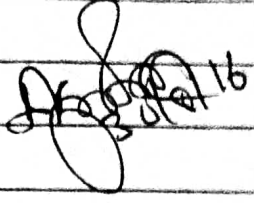
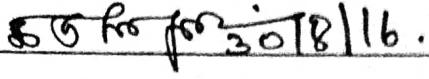
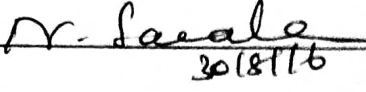

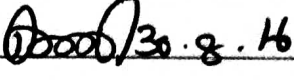

## V SELF STUDY COURSE :

1. "Mathematics Aptitude for Recruitment Board Examinations" is offered for all III Year UG Students (2017-2018 onwards) in VI Semester.

The Suggested and Changes made in the following courses.

- \* Core course - III - Theory of Equations and Vector Calculus
- \* Core Course - V - Mathematical Statistics.
- \* Core course - VI - Mathematical Statistics  
(New course) practical (using SPSS).
- \* Core course - VII - Abstract Algebra
- \* Core course - X - Differential Equations, Laplace Transforms and Fourier Series.
- \* Core course - XII - Graph Theory
- \* Elective course - III - Discrete Mathematics.

Members of Board of Studies:

1. Dr. S. DURAIRAJAN  30/8/16
2. Dr. K. GUNESEKARAN  30/8/16.
3. Dr. N. SARALA  N. Sarala  
30/8/16
4. Thiru. B. ANAND - NOT ATTENDED
5. Tmt. S. RAJKUMARI  30/8/16
6. Dr. R. GOWRI  30/8/16
7. Selvi. G. VEMBARASI  30/8/16



GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)  
KUMBAKONAM- 612 001, TAMIL NADU.

Date: 11.02.2020

Time: 10.00 A.M

DEPARTMENT OF MATHEMATICS : UG - BOARD OF STUDIES MEETING

(Candidates Admitted from 2020-2021 onwards)

I. AGENDA.

1. Discuss the Outcome based curriculum - Programme Outcomes(PO), Programme Specific Outcomes (POS) and Course Outcomes (CO) of B.Sc., Mathematics.
2. Discuss the curriculum structure and detailed Syllabi for I, II and III year of B.Sc., Mathematics.

II. LIST OF MEMBERS PRESENT.

S.No	Name and Designation	Designation	Responsibility	Signature
1.	Dr. S. Rajkumari	HOD & Assistant Professor, Department of Mathematics	Chairman	S. Rajkumari 11/2/20
2.	Dr. R. Gowri	Assistant Professor, Department of Mathematics.	Member	R. Gowri 11.02.2020
3.	Dr. Durairajan University Nominee	Associate Professor of Mathematics, Bharathidasan University.	Member	D. Durairajan
4.	Dr. D. Sivakumar Subject Expert	Professor of Mathematics, Annamalai University	Member	D. Sivakumar 11/2/20
5.	Dr. S. Sivakumar Subject Expert	Assistant Professor of Mathematics, Government Arts College, Mutlur.	Member	S. Sivakumar 11/02/2020



6.	Mr. B. Anand, IT Person	Network Engineer, Bharthidasan University	Member	B. Anand 11/21/2020
7.	Mrs. G. Vembarasi Alumni	Guest Lecturer in Mathematics of Mathematics	Member	G. Vembarasi 11/21/2020
8.	Dr. G. Amuda	Guest Lecturer in Mathematics	Member	G. Amuda 11/21/2020
9.	Mrs. M. Devi	Guest Lecturer in Mathematics	Member	M. Devi 11/21/2020
10.	Mrs. J. Indira	Guest Lecturer in Mathematics	Member	J. Indira 11/21/2020
11.	Mrs. P. Latha	Guest Lecturer in Mathematics	Member	P. Latha 11/21/2020
12.	Mrs. K. Karpagam	Guest Lecturer in Mathematics	Member	K. Karpagam 11/21/2020
13.	Mrs. A.K.R. Rajayal	Guest Lecturer in Mathematics	Member	A.K.R. Rajayal 11/21/2020
14.	Ms. G. Sahithyabharathi.	Guest Lecturer in Mathematics	Member	G. Sahithyabharathi 11/21/2020
15.	Mrs. U.Sudaroli	Guest Lecturer in Mathematics	Member	U. Sudaroli 11/21/2020

### III. MINUTES OF THE MEETING

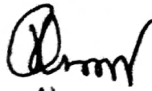
Board of Studies meeting of the Department of Mathematics was conducted on 11.02.2020 at 10.30 AM in the Department of Mathematics.


The chairman described the agenda items. She said that the revision of the curriculum of undergraduate Mathematics. The chairman described the proceedings of the curriculum revision and invited the discussion.

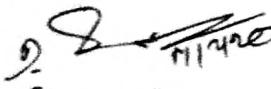
1. After detailed discussion, the Program Outcomes, Program Specific Outcomes (PSO's) of undergraduate Mathematics are formulated.
2. The course outcomes prepared by the members of the faculty were presented. It was decided to finalise the Course Outcomes with respect to the modifications suggested by the members.
3. It was decided to incorporate the Course outcomes in consistent with the Program Specific Outcomes and Program Outcomes.
4. The board strongly recommended that the B.Sc., Mathematics students must credit Physics and Chemistry as allied subjects for the benefit of the students.
5. Programming in C, C Lab are included in I year I semester core course theory and II semester core course practical, respectively.


6. Linear Algebra is introduced as a core course.
7. The core courses Statics and Dynamics are combined and introduced as new course Mechanics.
8. The core courses Differential Equations, Laplace Transforms and Fourier series are divided and introduced into two different course namely
  - (i) Differential Equations as a core course and
  - (ii) Laplace Transforms and Fourier Series as a Major Elective.
9. The Syllabus of the courses Abstract Algebra and Mathematical Statistics are modified.
10. Programming in C++ is included in III year Major based elective course.
11. Discrete Mathematics is offered for Allied course for Computer Science.
12. Allied course Algebra, ODE and Trigonometry is modified in the previous syllabus.
13. Mathematical Reasoning, Office Management, Office Communication are offered in Value added courses.
14. The Board recommends to encourage the students to undergo MOOC online courses for the self-study paper through SWAYAM, e-pathsala,

1. S. Rajkumari  
11/2/2020  
(S. RAJKUMARI)

2.   
11.02.2020

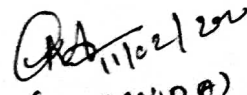
3.   
(K. DURAIRAJAN)


4.   
(C. D. SIVAKUMAR)

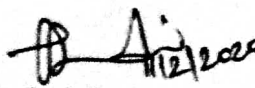
5.   
11/02/2020  
S. SWAKUMAR


6. B. Anand  
11/2/2020  
(B. ANAND)

7.   
11/2/2020  
(G. VENBARASI)

8.   
11/02/2020  
(G. AMUDRA)

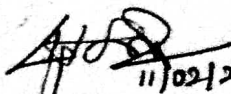
9.   
11/2/2020  
(M. DEVI)

10.   
11/2/2020  
(J. INDIRA)

11. P.   
11/02/2020  
(P. LATHA)

12. K. Karpagam  
11/02/2020  
(K. KARPAGAM)

13. Akr. Rajyal  
11/2/2020  
(AKR. RAJAYAL)

14.   
11/02/2020  
(G. SAHITHYABHARATHI)

15. U. Sudarou  
11/2/20  
[U. SUDAROU]



**Government College For Women (Autonomous), Kumbakonam  
Department of Mathematics**

**UG Board of Studies - Minutes of the Meeting**

Date : 01.04.2023

Time : 10.00 am

The Board of Studies meeting for B.Sc. Mathematics was conducted on 01.04.2023 the Department of Mathematics.

The following members attended the meeting.

<b>S.No</b>	<b>Name of the Member</b>	<b>Designation and Address</b>	<b>Position</b>
1.	Dr. S. Rajkumari	Assistant professor of Mathematics	Chairperson(HOD)
2.	Dr. R. Gowri	Assistant professor of Mathematics	Internal faculty
	Mrs. M. Devi	Lecturer in Mathematics	Internal faculty
	Dr. G. Vembarasi	Lecturer in Mathematics	Internal faculty
	Mrs. J. Indira	Lecturer in Mathematics	Internal faculty
	Mrs. P. Latha	Lecturer in Mathematics	Internal faculty
	Mrs. K. Karpagam	Lecturer in Mathematics	Internal faculty
	Dr. A.K.R. Rajayal	Lecturer in Mathematics	Internal faculty
	Dr. G. Sahithya Bharathi	Lecturer in Mathematics	Internal faculty
	Mrs. U. Sudaroli	Lecturer in Mathematics	Internal faculty
	Dr. M. Senbagavalli	Lecturer in Mathematics	Internal faculty
3.	Dr. G. Ramesh	Principal In - Charge, Government Arts and Science College, Aruppukottai-626134, Virudhunagar (DT).	Subject Expert 1 (Other University)
4.	Dr. S. Uma	Associate Professor of Mathematics, Dharmapuram Gnambigai College for women, Mayiladuthurai.	Subject Expert 2 (Other University)
5	Dr. A. Tamilselvan	Professor and Head, Department of Mathematics Bharathidasan University, Tiruchirappalli- 620 024.	University Nominee
6	Thiru. B. Anand	IT Person - UGC Infouent program, Member, Centre for Internal Quality Assurance(CDOE) Bharathidasan University, Tiruchirappalli - 620 024 .	Industry Expert/Corporate Sector/Allied Area Relating to placement Cell



7	Ms. G. Anusuya	Dr.G.S. Kalyanasundaram Metric Hr.Sec. School, Pazhaya Gudalur – 609 801.	Meritorious Alumni
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The Chairman welcomed the gathering and apprised the purpose of the meeting.

With a view of incorporating Naan Mudhalvan courses and to make mandatory inclusion of TANSCHÉ – State Integrated Board of Studies Curriculum, the following resolutions are passed.

1. It is resolved to introduce the **Naan Mudhalvan Course : “Language Proficiency for Employability”** in Semester II for the I year with 2 hours and 2 credits in Batch 2022 curriculum (reducing Part II English Hours from 6 to 4) under Part IV.
2. It is resolved to introduce the **Naan Mudhalvan Course : “Digital Skills for Employability”** in Semester IV with 2 hours and 2 credits under Part IV as follows:
  - i. For Batch 2021 reducing 1 hour at 1 credit from 1 Core course and 1 hour at 1 credit from 1 Allied Course.
  - ii. For Batch 2022 replacing the Skill Enhancement Course of 2 hours and 2 credits.
3. It is resolved to introduce the **Naan Mudhalvan Course – “Data Analytics with Advanced Tools ”** in Semester VI for the Batch 2020 with 2 hours and 2 credits under **Part III** reducing 1 hour at 1 credit from 2 MBEC courses.
4. As per the directions of TANSCHÉ, a new course structure for the Batch 2023-2024 onwards is framed according to the curriculum prescribed by the State Integrated Board of Studies (R.C. No.2250/2021 A, dt. 03.01.2023) with an inclusion of 75% of the mandatory courses.

5. The syllabus for the Semester I & Semester II for B.Sc., Mathematics has been revised not deviating more than 25% from the content of the syllabus framed by TANSICHE.

Members Present:

S.No	Name of the Member	Position	Signature
1.	Dr. S. Rajkumari	Chairperson(HOD)	<i>S. Rajkumari</i> 01/04/2023
2.	Dr. R. Gowri	Internal faculty	<i>R. Gowri</i> 1/4/2023
	Mrs. M. Devi	Internal faculty	<i>M. Devi</i> 1/4/2023
	Dr. G. Vembarasi	Internal faculty	<i>G. Vembarasi</i> 1/4/2023
	Mrs. J. Indira	Internal faculty	<i>J. Indira</i> 1/4/2023
	Mrs. P. Latha	Internal faculty	<i>P. Latha</i> 01/04/23
	Mrs. K. Karpagam	Internal faculty	<i>K. Karpagam</i> 11/4/2023
	Dr. A.K.R. Rajayal	Internal faculty	<i>A.K.R. Rajayal</i> 11/4/2023
	Dr. G. Sahithya Bharathi	Internal faculty	<i>G. Sahithya Bharathi</i> 11/4/23
	Mrs. U. Sudaroli	Internal faculty	<i>U. Sudaroli</i> 01/04/23
	Dr. M. Senbagavalli	Internal faculty	<i>M. Senbagavalli</i>
3.	Dr. G. Ramesh	Subject Expert 1 (Other University)	<i>G. Ramesh</i>
4.	Dr. S. Uma	Subject Expert 2 (Other University)	<i>S. Uma</i> 11/4/23
5	Dr. A. Tamilselvan	University Nominee	<i>A. Tamilselvan</i> 01/04/23
6	Thiru. B. Anand	Industry Expert/Corporate Sector/Allied Area Relating to placement Cell	<i>B. Anand</i> 11/4/23
7	Miss. G. Anusuya	Meritorious Alumni	<i>G. Anusuya</i> 1/4/23

DEPARTMENT OF MATHEMATICS

Govt. College for women (A)  
Kumbakonam.

30.8.2016

Minutes of the Board of Studies [in M.Sc., Mathematics] meeting held on August 30, 2016 at 11.00 a.m in the Department of Mathematics, Govt. College for Women (A), Kumbakonam.

The Board of Studies meeting was conducted to discuss the syllabus for M.Sc., Mathematics from (2017-2018) onwards

Members Present:

1. Dr. C. DURAIRAJAN - University Nominee
2. Dr. K. GUNASEKARAN - Subject Expert.
3. Dr. N. SARALA - subject Expert
4. Thiru. B. ANAND - Industrial person
5. Tmt. S. RAJAKUMARI - Chairman
6. Dr. R. GOWRI - Faculty
7. Selvi. G. VEMBARASI - Alumini

The Board discussed and finalised (List enclosed) the syllabi for M.Sc., Mathematics for the candidates admitted from 2017-2018 onwards.

LIST OF CORE COURSES

- |                                   |  |
|-----------------------------------|--|
| 1. LINEAR ALGEBRA                 | 11. DIFF. GEOMETRY   |
| 2. REAL ANALYSIS                  | 12. FUNCTIONAL ANALYSIS  |
| 3. ORDINARY DIFF. EQNS            | 13. INTEGRAL EQNS, CALCULUS OF VARIATION AND FOURIER TRANSFORM |
| 4. GRAPH THEORY                   | 14. PROJECT  |
| 5. ALGEBRA                        |  |
| 6. COMPLEX ANALYSIS               |  |
| 7. THEORY OF NUMBERS              |  |
| 8. PARTIAL DIFF. EQNS             |  |
| 9. MEASURE THEORY AND INTEGRATION |  |
| 10. TOPOLOGY                      |  |
| 11. CLASSICAL DYNAMICS            |  |

LIST OF ELECTIVE COURSES.

1. MATHEMATICAL PROBABILITY
2. STOCHASTIC PROCESSES
3. INTRODUCTION TO SCIENTIFIC COMPUTING (MATLAB)
4. FUZZY MATHEMATICS
5. OPTIMIZATION TECHNIQUES
6. THEORY OF COMPUTATION
7. PURE GEOMETRY
8. APPLIED CRYPTOGRAPHY
9. FLUID DYNAMICS



The board discussed and modified the syllabus of following core courses:

1. Core course II - Real Analysis
2. Stochastic processes - Core course (XI) is shifted to an elective course & syllabus also modified
3. Core course (XIII) - Functional Analysis
4. Core course (IX) - Measure Theory & Integration
5. The elective course (IV) - classical dynamics is shifted as a core course (XI)

#### New Course

6. The practical course "Introduction to scientific computing (MATLAB)" is offered as an elective course for PG Mathematics students.

#### Members of Board of studies:

1. Dr. C. DURAIRAJAN Dr. Durairajan  
30/8/16
2. Dr. K. GUNASEKARAN Dr. Gunasekaran  
30/8/16
3. Dr. N. SABALA Dr. Sabala  
30/8/16
4. Thiru. B. ANAND Not Attended
5. Tmt. S. RAJAKUMARI Dr. Rajakumari  
30-8-16
6. Dr. R. GOWRI - 30/8/16
7. Selvi. G. VEMBARASI - 30/8/16



**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**  
KUMBAKONAM- 612 001, TAMIL NADU.

Date: 12.02.2020

Time: 10.00 A.M

**DEPARTMENT OF MATHEMATICS : PG - BOARD OF STUDIES MEETING**  
( PG CBCS 2020 - 2021 Batch onwards)

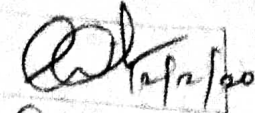
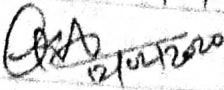
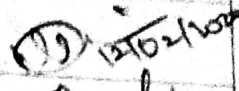
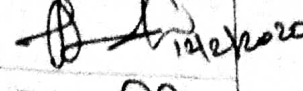

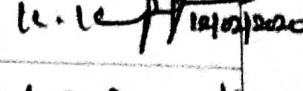
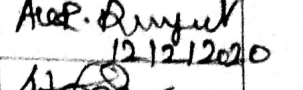
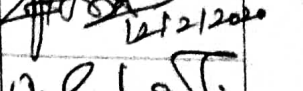
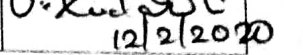
**I. AGENDA**

1. Discuss the Outcome based curriculum - Programme Outcomes (PO), Programme Specific Outcomes (PSO) and Course Outcomes (CO) of M.Sc., Mathematics.
2. Discuss the curriculum structure and detailed Syllabi for I, II year of M.Sc., Mathematics.

**II. MEMBERS PRESENT**

S. No.	Name and Designation	Designation	Responsibility	Signature
1.	Dr. S. Rajkumari	HOD & Assistant Professor, Department of Mathematics	Chairman	<i>S. Rajkumari</i> 12/2/2020
2.	Dr. R. Gowri	Assistant Professor, Department of Mathematics.	Member	<i>R. Gowri</i> 12/2/2020
3.	Dr. C. Durairajan University Nominee	Associate Professor of Mathematics, Bharathidasan University.	Member	<i>C. Durairajan</i> 12/2/2020
4.	Dr. D. Sivakumar Subject Expert	Professor of Mathematics, Annamalai University	Member	<i>D. Sivakumar</i> 12/2/2020
5.	Dr. S. Sivakumar Subject Expert	Assistant Professor of Mathematics, Government Arts College, Mutlur.	Member	<i>S. Sivakumar</i> 12/02/2020
6.	Mr. B. Anand IT Person	Network Engineer, Bharthidasan University	Member	<i>B. Anand</i> 12/2/2020



7.	Mrs. G. Vombarasi Alumni	Guest Lecturer in Mathematics	Member	 12/2/20
8.	Dr. G. Amuda	Guest Lecturer in Mathematics	Member	 12/2/20
9.	Mrs. M. Devi	Guest Lecturer in Mathematics	Member	 12/2/20
10.	Mrs. J. Indira	Guest Lecturer in Mathematics	Member	 12/2/20
11.	Mrs. P. Latha	Guest Lecturer in Mathematics	Member	 12/2/20
12.	Mrs. K. Karpagam	Guest Lecturer in Mathematics	Member	 12/2/20
13.	Mrs. A.K.R. Rajayal	Guest Lecturer in Mathematics	Member	 12/2/20
14.	Ms. G. Sahithyabharathi	Guest Lecturer in Mathematics	Member	 12/2/20
15.	Mrs. U.Sudaroli	Guest Lecturer in Mathematics	Member	 12/2/20

### III. MINUTES OF THE MEETING

Board of Studies meeting for PG Mathematics was conducted on 12.02.2020 at 10.30 A.M in the Department of Mathematics.

The chairman described the agenda items. She said that the revision of the curriculum of postgraduate Mathematics. The chairman described the proceedings of the curriculum revision and invited the discussions.

1. After detailed discussion, the Programme Outcomes, Programme Specific Outcomes (PSO's) of Postgraduate Mathematics are formulated.
2. The course outcomes prepared by the members of the faculty were presented. It was decided to finalise the Course Outcomes with respect to the modifications suggested by the members.
3. It was decided to incorporate the Course Outcomes in consistent with the Programme Specific Outcomes and Programme Outcomes.
4. New Core Courses are introduced.
5. Real Analysis course is divided into two new core courses called Real Analysis I and Real Analysis II.
6. Algebraic Topology, Pure Geometry and Fluid Dynamics are introduced as core courses.
7. The syllabi of Algebra and Differential Geometry are modified.
8. The syllabus of Theory of Computation is modified and renamed as Automata Theory.



Operator Theory and Coding Theory courses are introduced as Elective Course.  
One Extra Disciplinary Course is introduced with 2 credits Resource Management and General Intelligence courses are offered as Choice Based Extra Disciplinary courses

Two practical oriented Value Added Courses are introduced with 2 credits each. The following are the list of Choice Based Value Added Courses:

- (i) Introduction to LaTeX [for Scientific Documentation]
- (ii) Introduction to Scientific Computing (MatLab)
- (iii) Introduction to SageMath
- (iv) SageMath for Abstract Algebra
- (v) Introduction to R-Programming [for Statistical Computing]

The Board recommends encouraging the students to undergo MOOC online courses for the self – study paper through SWAYAM, e-pathsala, NPTEL portals of Govt. of India.

The Board finalized the syllabi of M.Sc., Mathematics Programme for the students admitted the academic year 2020-2021 onwards.

Dr. S. Rajkumari

- S. Rajkumari  
12/2/2020

Dr. R. Gowri

- R. Gowri  
12/2/2020

Dr. C. Durairajan

- C. Durairajan  
12/2/2020

Dr. D. Sivakumar

- D. Sivakumar  
12/2/2020

Dr. S. Sivakumar

- S. Sivakumar  
12/02/2020

Mr. B. Anand

- B. Anand  
12/2/2020

Mrs. G. Vembarasi

- G. Vembarasi  
12/2/2020

Dr. G. Amuda

- G. Amuda  
12/02/2020

Mrs. M. Devi

- M. Devi  
12/2/2020

Mrs. J. Indira

- J. Indira  
12/2/2020

Mrs. P. Latha

- P. Latha  
12/02/2020

Mrs. K. Karpagam

- K. Karpagam  
12/02/2020

Mrs. A.K.R. Rajayal

- A.K.R. Rajayal  
12/2/2020

Ms. G. Sahithyabharathi

- G. Sahithyabharathi  
12/2/2020

Mrs. U. Sudaroli

- U. Sudaroli  
12/2/2020