



Anekant Education Society's

**Tuljaram Chaturchand College**  
**of Arts, Science and Commerce, Baramati**  
**(Autonomous)**

**Department of Mathematics**

(Faculty of Science and Technology)

**Minutes of Board of Studies Meeting No.5**

**Date of Meeting: 09/04/2022**

**Venue: Department of Mathematics**

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April, 2022

**Anekant Education Society's**  
**Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati**  
**(Autonomous)**

**Department of Mathematics**

**AGENDA OF THE MEETING**

**The agenda of the meeting included the following subjects:**

1. To confirm the minutes of the previous meeting held on 30 March 2021.
2. To design and approve course and credit structure for the B.Sc. and M. Sc. Mathematics programme in accordance with 2022 pattern.
3. To prepare and approve curriculum of F.Y.B.Sc. Mathematics Semester-I (2022 pattern), F.Y.B.Sc.(Comp.Sci) Mathematics Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.
4. To prepare and approve curriculum of M.Sc.-I Mathematics Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.
5. To prepare and approve curriculum of certificate courses for UG and PG programmes as per 2022 pattern.
6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
7. Any other issue with the permission of the chair.

**List of Members Present for the BOS Meeting**

The following internal and external BOS members attended the Board of Studies (Mathematics) meeting through online mode held on 9<sup>th</sup> April, 2022.

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Designation</b>
1.	<b>Mr. Sadashiv R. Puranik,</b>	Chairman
2.	<b>Ms. Varsha H. Shinde</b>	Member
3.	<b>Dr. Prakash B. Fulari</b>	Member
4.	<b>Ms. Shaila S. Jadhav</b>	Member
5.	<b>Ms. Nikita R. Shinde</b>	Member
6.	<b>Ms. Sonali V. Kate</b>	Member
7.	<b>Dr. Anil S. Khairnar</b>	Vice-Chancellor Nominee
8.	<b>Dr. Nitin S. Darkunde</b>	Expert from other University
9.	<b>Dr. Kishor D. Kucche</b>	Expert from other University
10.	<b>Mr. Amit Patil</b>	Industry Expert
11.	<b>Ms. Sharwari Markale</b>	UG Student
12.	<b>Mr. Vishvajeet Nalawade</b>	UG Student
13.	<b>Ms. Ghadage Srushti</b>	PG Student

## **MINUTES OF THE MEETING**

As per the notice no. 403, dated 31/02/2022, issued by the college, the meeting of Board of Studies in Mathematics was successfully held on 09<sup>th</sup> April, 2022 at 11:00 AM in the Department of Mathematics, T. C. College, Baramati. The meeting took place in offline mode, adhering to the guidelines and protocols set by the college under the guidance of Mr. Sadashiv R. Puranik, Chairman, Board of Studies in Mathematics. The meeting commenced with a warm welcome to all the esteemed members, followed by a brief introduction of the meeting's objectives.

During the meeting, fruitful discussions were held on the items mentioned in the circulated agenda. We are pleased to inform you that the following resolutions were made during the BoS meeting.

### **1. Confirmation of Minutes from Previous Meeting (30th March 2021):**

- The meeting commenced with a review of the minutes from the previous meeting held on 30th March 2021. After careful consideration, the minutes were confirmed by the attendees.

### **2. Design and Approval of Course and Credit Structure for B.Sc. and M.Sc. Mathematics Programme (2022 Pattern):**

- The committee engaged in a comprehensive discussion on designing and approving the course and credit structure for the B.Sc. and M.Sc. Mathematics programs in accordance with the 2022 pattern.

### **F. Y. B. Sc. Mathematics**

<b>Semester</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>No. of Credits</b>	<b>No. of Lectures</b>
<b>I</b>	USMT111	Algebra	2	36
	USMT112	Calculus-I	2	36
	USMT113	Practical based on USMT111 and USMT112	2	48
<b>II</b>	USMT121	Geometry	2	36
	USMT122	Calculus-II	2	36
	USMT123	Practical based on USMT121 and USMT122	2	48

**S. Y. B. Sc. Mathematics**

Semester	Course Code	Title of Course	No. of Credits	No. of Lectures
III	USMT231	Calculus of Several Variables	3	48
	USMT232	Laplace Transform & Fourier Series	3	48
	USMT233	Practical based on USMT231 and USMT232	2	48
IV	USMT241	Vector Calculus	3	48
	USMT242	Linear Algebra	3	48
	USMT243	Practical based on USMT241 and USMT242	2	48

**T.Y.B.Sc Mathematics**

Semester	Course Code	Title of Course	No. of Credits	No. of Lectures
V	USMT351	Metric Spaces	3	48
	USMT352	Real Analysis I	3	48
	USMT353	Group Theory	3	48
	USMT354	Ordinary Differential Equation	3	48
	USMT355	Number Theory	3	48
	USMT356(A)	Operation Research	3	48
	USMT356(B)	C Programming	3	48
	USMT357	Practical based on USMT351 and USMT352	2	48
	USMT358	Practical based on USMT353 and USMT354	2	48
	USMT359	Practical based on USMT355 and USMT356	2	48
VI	USMT361	Complex Analysis	3	48
	USMT362	Real Analysis II	3	48
	USMT363	Ring Theory	3	48
	USMT364	Partial Differential Equation	3	48
	USMT365	Lebesgue Integration	3	48
	USMT366(A)	Optimization Techniques	3	48
	USMT366(B)	Python Programming	3	48
	USMT367	Practical based on USMT361, USMT362, and USMT363	2	48
	USMT368	Practical based on USMT364, USMT365, and USMT366	2	48
	USMT369	Mathematics Project	2	48

**M.Sc. I Mathematics**

Semester	Course Code	Title of Course	No. of Credits	No. of Lectures
I	PSMT111	Measure Theory and Integration	4	64
	PSMT112	Advanced Calculus	4	64
	PSMT113	Group theory	4	64
	PSMT114	Numerical Analysis	4	64
	PSMT115	Ordinary Differential Equations	4	64
	PSMT116	Practical: Programming in C	4	64
II	PSMT121	Complex Analysis	4	64
	PSMT122	Topology	4	64
	PSMT123	Rings and Modules	4	64
	PSMT124	Linear Algebra	4	64
	PSMT125	Partial Differential Equations	4	64
	PSMT126	Practical: Programming in C++	4	64

**M.Sc. II Mathematics**

Semester	Course Code	Title of Course	No. of Credits	No. of Lectures
III	PSMT231	Combinatorics	4	64
	PSMT232	Field Theory	4	64
	PSMT233	Functional Analysis	4	64
	PSMT234	Integral Equations	4	64
	PSMT235(A)	Astronomy	4	64
	PSMT235(B)	Graph Theory	4	64
	PSMT236	Practical: Python	4	64
IV	PSMT241	Number Theory	4	64
	PSMT242	Differential Geometry	4	64
	PSMT243	Fourier Analysis	4	64
	PSMT244	Lattice Theory	4	64
	PSMT245(A)	Coding theory	4	64
	PSMT245(B)	Cryptography	4	64
	PSMT246	Project	4	64

**3. Preparation and Approval of Curriculum for F.Y.B.Sc. Mathematics Semester-I (2022 Pattern) and F.Y.B.Sc.(Comp.Sci) Mathematics Semester-I (2022 Pattern):**

- The committee discussed and reviewed the proposed curriculum for F.Y.B.Sc. Mathematics Semester-I (2022 Pattern) and F.Y.B.Sc.(Comp.Sci) Mathematics Semester-I (2022 Pattern).
- Amendments were suggested, considering the evolving needs of students and the industry. The revised curriculum was unanimously approved for implementation from the academic year 2022-2023.

**4. Preparation and Approval of Curriculum for M.Sc.-I Mathematics Semester-I (2022 Pattern):**

- Similar to the discussions on undergraduate curricula, the committee examined and approved the curriculum for M.Sc.-I Mathematics Semester-I based on the 2022 pattern.
- "Integral Equations" will be made a compulsory course, and "Graph Theory" will be offered as an elective course in MSc.
- It was decided that the textbook for the course "Measure Theory and Integration" (MSc I) should be "Measure Theory and Integration" by G. de Barra.

**5. Preparation and Approval of Curriculum for Certificate Courses (UG and PG) - 2022 Pattern:**

- The committee addressed the need for certificate courses and discussed the proposed curriculum for UG and PG programs in accordance with the 2022 pattern.
- The importance of offering diverse and industry-relevant certificate courses was highlighted. The curriculum was finalized and approved.

**6. Incorporation of Stakeholder Feedback in the Curriculum:**


- The meeting emphasized the significance of incorporating feedback from various stakeholders, including students, teachers, parents, alumni, and employers.

Following courses are designed by Board of Studies in this meeting.

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
F.Y.B.Sc	2022	I	USMT111	Algebra	Theory	02
F.Y.B.Sc	2022	I	USMT112	Calculus-I	Theory	02
F.Y.B.Sc	2022	I	USMT113	Practical based on USMT111 and USMT112	Practical	02
F.Y.B.Sc (Comp)	2022	I	UCSMT111	Graph Theory	Theory	02
F.Y.B.Sc (Comp)	2022	I	UCSMT112	Matrix Algebra	Theory	02
F.Y.B.Sc (Comp)	2022	I	UCSMT113	Mathematics Practical based on UCSMT111 & UCSMT112	Practical	02
M.Sc.	2022	I	PSMT111	Measure Theory and Integration	Theory	04
M.Sc.	2022	I	PSMT112	Advanced Calculus	Theory	04
M.Sc.	2022	I	PSMT113	Group theory	Theory	04
M.Sc.	2022	I	PSMT114	Numerical Analysis	Theory	04
M.Sc.	2022	I	PSMT115	Ordinary Differential Equations	Theory	04
M.Sc.	2022	I	PSMT116	Programming in C	Practical	04

  
**HEAD**  
 Department of Mathematics  
 Tuljaram Chaturchand College  
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 12/4/2022  
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