



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.1**

**Date of Meeting: 09/04/2019**

**Venue: Department of Mathematics**

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April, 2019



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**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 design and approve course and credit structure for the B.Sc., B.Sc Computer, and M. Sc. Mathematics programme in accordance with 2019 pattern.
2. To prepare and approve curriculum of F.Y.B.Sc. and F.Y.B.Sc (Comp) Mathematics Semester-I (2019 pattern) to be implemented from the academic year 2019-2020.
3. To prepare and approve curriculum of M.Sc.-I Mathematics Semester-I (2019 pattern) to be implemented from the academic year 2019-2020.
4. To prepare and approve curriculum of certificate courses for UG and PG programmes as per 2019 pattern.
5. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
6. 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 offline mode held on 9<sup>th</sup> April, 2019.

Sr. No.	Name of Member	Designation
1.	<b>Mr. Sadashiv Puranik,</b> Head and Assistant Professor, Department of Mathematics, T. C. College, Baramati.	Chairman
2.	<b>Ms. Varsha Shinde</b> Assistant Professor, Department of Mathematics, T. C. College, Baramati	Internal Member
3.	<b>Mr. Prakash Fulari</b> Assistant Professor, Department of Mathematics, T. C. College, Baramati	Internal Member
4.	<b>Mr. Arun Pandhari</b> Associate Professor, Department of Mathematics, T. C. College, Baramati	Internal Member
5.	<b>Ms. Shaila Jadhav</b> Assistant Professor, Department of Mathematics, T. C. College, Baramati	Internal Member
6.	<b>Mr. Vitthal Machale</b> Assistant Professor, Department of Mathematics, T. C. College, Baramati	Internal Member
7.	<b>Dr. Nilesh Mundlik</b> Assistant Professor, Department of Mathematics, Nowrosjee Wadia College, Pune	External Member Vice-Chancellor Nominee
8.	<b>Dr. Michchindra Gophane</b> Assistant Professor, Department of Mathematics, Shivaji University, Kolhapur.	External Member from other University
9.	<b>Dr. Nirmala Kavathekar</b> Head & Associate Professor, Dept. of Mathematics, Mudhoji College, Phaltan	External Member from other University
10.	<b>Mr. Prasad Deshpande</b> Technical Lead-Communication Engineering, Incedo, Pune	Industry Expert
11.	<b>Ms. Pratima Munde</b> Teaching Assistant, IISER Pune	Meritorious Alumni
12.	<b>Ms. Bhavika Shinde</b>	UG Student
13.	<b>Mr. Madhujeet Nayakawadi</b>	UG Student
14.	<b>Ms. Vishakha Kshirsagar</b>	PG Student



## **MINUTES OF THE MEETING**

As per the notice no. 266, dated 05/02/2019, issued by the college, the meeting of Board of Studies in Mathematics was successfully held on 09<sup>th</sup> April, 2019 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.

### **Resolution # 01: Design and Approval of Course and Credit Structure for B.Sc. and M.Sc. Programme (2019 Pattern):**

- 1) The meeting commenced with a detailed discussion on designing and approving the course and credit structure for the B.Sc. and M.Sc. programs in accordance with the 2019 pattern.
- 2) Various suggestions were put forward regarding the distribution of credits, core courses, electives, and practical components. After thorough deliberation, a consensus was reached, and the proposed structure was approved by the majority.
- 3) It was emphasized that the title of practical courses should be specific to clearly convey the content and objectives.
- 4) For B.Sc. programs, it was decided that graphs and functions should be specifically taken on Maxima software to enhance the learning experience and practical application.

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

Semester	Course Code	Title of Course	No. of Credits
I	MAT1101	Algebra	2
	MAT1102	Calculus-I	2
	MAT1103	Practical Based on MAT1101 & MAT1102	2
II	MAT1201	Geometry	2
	MAT1202	Calculus-II	2
	MAT1203	Practical Based on MAT1201 & MAT1202	2



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

Semester	Course Code	Title of Course	No. of Credits
III	MAT2301	Multivariable Calculus-I	3
	MAT2302	Laplace Transform & Fourier Series	3
	MAT2303	Practical Based on MAT2301 & MAT2302	2
IV	MAT2401	Linear Algebra	3
	MAT2402	Multivariable Calculus-II	3
	MAT2403	Practical Based on MAT2401 & MAT2402	2

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

Semester	Course Code	Title of Course	No. of Credits
V	MAT3501	Metric Spaces	3
	MAT3502	Real Analysis I	3
	MAT3503	Group Theory	3
	MAT3504	Ordinary Differential Equation	3
	MAT3505	Operation Research	3
	MAT3506	Number Theory	3
	MAT3507	Practical based on MAT3501 & MAT3502	2
	MAT3508	Practical based on MAT3503 & MAT3504	2
	MAT3509	Practical based on MAT3505 & MAT3506	2
VI	MAT3601	Complex Analysis	3
	MAT3602	Real Analysis II	3
	MAT3603	Ring Theory	3
	MAT3604	Partial Differential Equation	3
	MAT3605	Optimization Techniques	3
	MAT3606	Lebesgue Integration	3
	MAT3607	Practical based on MAT3601, MAT3602 & MAT3603	2
	MAT3608	Practical based on MAT3604, MAT3605 & MAT3606	2
	MAT3609	Project	2



**M.Sc. I Mathematics**

Semester	Course Code	Title of Course	No. of Credits
I	MAT4101	Real Analysis	4
	MAT4102	Advanced Calculus	4
	MAT4103	Group theory	4
	MAT4104	Numerical Analysis	4
	MAT4105	Ordinary Differential Equations	4
	MAT4106	Practical: Programming in C	4
II	MAT4201	Complex Analysis	4
	MAT4202	Topology	4
	MAT4203	Rings and Modules	4
	MAT4204	Linear Algebra	4
	MAT4205	Partial Differential Equations	4
	MAT4206	Practical: Programming in C++	4

**M.Sc. II Mathematics**

Semester	Course Code	Title of Course	No. of Credits
III	MAT5301	Combinatorics	4
	MAT5302	Field Theory	4
	MAT5303	Functional Analysis	4
	MAT5304	Graph Theory	4
	MAT5305	Applied Mathematics I	4
	MAT5306	Practical: Python	4
IV	MAT5401	Number Theory	4
	MAT5402	Differential Geometry	4
	MAT5403	Fourier Analysis	4
	MAT5404	Lattice Theory	4
	MAT5405	Applied Mathematics II	4
	MAT5406	Project	4

**Resolution # 02: Preparation and Approval of Curriculum for F.Y.B.Sc. & F.Y.B.Sc. (Comp. Sci.) Semester-I (2019 Pattern):**

- 1) The committee discussed and reviewed the proposed curriculum for F.Y.B.Sc. & F.Y.B.Sc. (Comp. Sci.) Semester-I as per the 2019 pattern.
- 2) Amendments were suggested, considering the latest trends in the field and the evolving needs of the students. The revised curriculum was unanimously approved.

**Resolution # 03: Preparation and Approval of Curriculum for M.Sc.-I Semester-I (2019 Pattern):**

- 1) Similar to the discussion on the F.Y.B.Sc. curriculum, the committee examined and approved the curriculum for M.Sc.-I Semester-I based on the 2019 pattern.
- 2) It was decided that practical courses on C and C++ for M.Sc. programs should be taken in separate semesters to optimize the learning experience.



**Resolution # 04: Preparation and Approval of Curriculum for Certificate Courses (UG and PG) - 2019 Pattern:**

- 1) The committee addressed the need for certificate courses and discussed the proposed curriculum for UG and PG programs in accordance with the 2019 pattern.
- 2) The importance of offering diverse and industry-relevant certificate courses was highlighted. The curriculum was finalized and approved.

**Resolution # 05: Incorporation of Stakeholder Feedback in the Curriculum:**

- 1) The meeting emphasized the significance of incorporating feedback from various stakeholders, including students, teachers, parents, alumni, and employers.
- 2) The committee commended the active participation of students, alumni, and industry experts in the Board of Studies (BoS).

**Here is the list of courses designed by the Mathematics Board of Studies in this meeting.**

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
F.Y.B.Sc.	2019	I	MAT1101	Algebra	Theory	02
F.Y.B.Sc.	2019	I	MAT1102	Calculus-I	Theory	02
F.Y.B.Sc.	2019	I	MAT1103	Practical based on MAT1101 & MAT1102	Practical	02
F.Y.B.Sc. (Comp. Sci.)	2019	I	CSMT1101	Graph Theory	Theory	02
F.Y.B.Sc. (Comp. Sci.)	2019	I	CSMT1102	Algebra	Theory	02
F.Y.B.Sc. (Comp. Sci.)	2019	I	CSMT1103	Mathematics practical based on CSMT1101 & CSMT1102	Practical	02
M.Sc. I	2019	I	MAT4101	Real Analysis	Theory	04
M.Sc. I	2019	I	MAT4102	Advanced Calculus	Theory	04
M.Sc. I	2019	I	MAT4103	Group Theory	Theory	04
M.Sc. I	2019	I	MAT4104	Numerical Analysis	Theory	04
M.Sc. I	2019	I	MAT4105	Ordinary Differential Equations	Theory	04
M.Sc. I	2019	I	MAT4106	Practical: Programming in C	Practical	04

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