

Shree Manibhai Virani & Smt. Navalben Virani Science College, Rajkot
(Autonomous)
 Affiliated to Saurashtra University, Rajkot.
9th Meeting of Board of Studies in Mathematics
Department of Mathematics

Program: B.Sc. Mathematics.

Details of Meeting:

Mode of Meeting	Online & Offline
Date	30 th – June - 2021
Time	10:30 am Session-I: Time: 10:30 am to 11:30 am Session-II: Time: 11:30 am & onwards
Platform	Google Meet
Venue and Link Details with ID, Password etc	Venue: Room No.322, Department of Mathematics, Shri Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot. Links of the meetings: Session-I: https://meet.google.com/qmn-becd-nvr Session-II: https://meet.google.com/qis-hwdw-cvr

BoS Members

S. No.	Name	Membership	Present / Absent
1.	Mr. Jignasu N. Chauhan	Head of the Department, Chairman	Present
2.	Dr. Rakhimol V. Issac	Member Secretary	Present
3.	Dr. Samir K. Vaidya	Subject Expert, VC-Nominee	Present
4.	Mrs. Jayshri Joshi	Subject Expert, AC nominee	Present
5.	Mr. V. N. Vaghasia	Faculty member	Present
6.	Mr. M. L. Joshi	Faculty member	Present

7.	Mrs. Nisha K. Nesadia	Faculty member	Present
8.	Mr. Parag D. Ajani	Faculty member	Present
9.	Mr. Punit B. Vadher	Faculty member	Present
10.	Mrs. Miral P. Ambavi	Faculty member	Present
11.	Mr. Jayesh R. Vaghela,	Member from Industry/ Corporate Sector/ Allied Area	Leave of Absence
12.	Dr. Jeegnesh Bosamiya,	Member Alumnus	Present

Minutes of Meeting:

The Board of Studies in Mathematics met as indicated above and discussed on the aforementioned Agenda. Sharing the expertise of all the members and with very proactive inputs, the members unanimously resolved the following:

1. Common Agenda
 - a. NEP 2020 for adoption – **Appreciated and Recommended**
 - b. LOCF concepts specific to UG programs – **Appreciated and Recommended**
 - c. Models of conceptual frameworks for UG programs under Choice Based Credit System (CBCS) – **Agreed and Recommended**
 - d. General note on Concept to Practice component – **Appreciated and Recommended**
 - e. General Academic Rules and Regulations – **Recommended**
2. The Regulations for the below stated programme were **discussed & framed**.
 - a. B.Sc. Mathematics (**Enclosure-I**)

Discussions:

Various points of the Regulations for the B.Sc. Mathematics program including the Eligibility for Admission, Duration of the Programme, Structure of the Programme, Components of the CBCS Pattern, Medium of Instruction, Credit Points, Evaluation, Issue of Mark-Sheet and Degree Certificate were proposed and discussed and a few inputs were given by the BoS members.

The above will be effective for students admitted from **AY 2021-22 & onwards**

3. The Scheme of Learning & Evaluation for all Semesters of the following programmes of the Department were **discussed & framed**.

a. B.Sc. Mathematics (**Enclosure-II**)

- **New Courses introduced in semester – I**
- **Courses /Components Removed in the Semester Course.**

Sem	Courses components removed from the previous scheme	New Courses / components introduced in the proposed scheme
I	DSE-Allied 1: Physics – I	IDC 1: Electricity & modern physics
	DSE-Allied Practical 1: Physics Practical – I	IDC 1 Practical: Electricity & modern physics
	-	Core Enrichment 1: Concept to Practice Course
II	DSE-Allied 2: Physics – II	IDC 2:
	DSE-Allied Practical 2: Physics Practical – II	IDC Practical 2:
	-	Core Enrichment 1: Concept to Practice Course
III	-	Core 7:
	Core Practical 5: Practical on Numerical Methods.	Core Practical 3:
	Core Practical 6: Introduction to Scilab.	
	DSE-Allied 3: Physics-III	DSE 1:
	DSE-Allied Practical 3: Physics Practical-III	DSE 1 Practical:
	-	Core Enrichment 1: Concept to Practice Course
	-	Core Enrichment 2: Internship 1/ Training/ Project
IV	DSE-Allied 4: Physics-IV	DSE 2:
	DSE-Allied Practical 4: Physics Practical-IV	DSE 2 Practical:
	Core Practical 7: Advanced GEOGEBRA	Core Practical 4
	Core Practical 8: Introduction to MAXIMA	
V	-	-
VI	-	Core Enrichment 5: Project / Skill training / Start-up/
	Core 18: Complex Analysis	-
	DSE-Core 2: Graph Theory / Basics of Number Theory/	-
	Core Practical 14: Introduction to SAGE.	-

Courses /Components Modified & Name of the course

Sem	Courses / components in the previous scheme	Courses / components Modified in the proposed scheme
I	Core Practical 1: Practical on Differential Calculus.	Core Practical 1 Practical on Differential Calculus and Matrix Algebra including mathematical software
	Core Practical 2: Practical on Matrix Algebra.	
II	-	-
	Core Practical 3: Practical on Differential Equations	Core Practical 2:
	Core Practical 4: Introduction to GEOGEBRA	
III	-	-
IV	Core 7: Discrete Mathematics	Core 8:
	Core 8: Integral and Vector Calculus	Core 9:
	Core 9: Complex Variables and Inner Product Space	Core Elective 1:
V	Core 14: Computer Based Test	Core 14: Concept Recapitulation Test (CRT)
	DSE-Core 1: Advanced Topics in Mathematical Analysis / Topology	Core Elective 2:
	Generic Elective-I	TDE 2:
	Core Practical 9: Programming in C	Core Practical 5:
	Core Practical 10: Practical on Fundamentals of Numerical Analysis	
	Core Practical 11: Advanced SCILAB	
	Group Project /Internship / Training	Core Enrichment 3: Internship /Training
Core Enrichment 4: Mini Project		
VI	Core 15: Ring Theory	Core 15:
	Core 16: Optimization through Mathematical Programming.	Core Enrichment 5: Project / Skill training / Start-up/ OR Core 16: Core 17: Core Practical 6:
	Core 17: Advanced Topics in Numerical Analysis.	
	Core Practical 12: Practical on Optimization.	
	Core Practical 13: Practical on Advanced Topics in Numerical Analysis.	

Discussions:

- a. The BoS members appreciated the scheme of learning and evaluation for many of its good points. They were glad to observe that
 - (i) the scheme of learning and evaluation includes Choice Based Credit System (CBCS) by offering ample number of electives in it
 - (ii) it also aims to implement the NEP and
 - (iii) it includes the implementation of OBE/UGC-LOCF to a great extent.
- b. The BoS members took interest with proactive inputs on the above mentioned agenda.
- c. Members also mentioned that most of the students securing the degree of B.Sc. Mathematics usually tend to **choose the progression to higher studies**, rather than seeking immediate employment. Many of them would be benefited if they are offered trainings (**under the FS III heading**) including the following
 - (i) skill training for problem solving in mathematics.
 - (ii) training for preparations of the qualifying examinations including NET, GSLET, GATE and many more.
 - (iii) the training to succeed in the entrance examinations similar to IIT – JAM and other examinations for PG admission.
- d. **One senior member** warned about the possibility of the plagiarism in the assignments/mini project work / major project work. The members suggested the preventive steps to deal with plagiarism.

The above will be effective for students admitted from **AY 2021-22 & onwards**

4. The Syllabi for the courses of the below stated programmes of the department were **discussed & framed**.
 - a. 1st Semester for B.Sc. Mathematics (**Enclosure –III**)

Discussions:

- (i) The members recommended that the list of textbooks and reference books recommended in the course content should be updated with the latest editions. – **Agreed and Recommended**
- (ii) The members also recommended including a few new textbooks. – **Agreed and Recommended**

The detailed syllabi in the new format for adoption of OBE indicating course outcomes with K levels, pedagogical & assessment tools as appended

The above will be effective for students admitted from **AY 2021-22 & onwards**

5. List of Paper Setter and Examiner for the 1st semester courses of the UG program were discussed and finalized as indicated in (**Enclosure – IV & V**)
6. Question paper pattern for 1st semester theory & practical courses of the UG program were **discussed and finalized (Enclosure – VI)**

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1.	Mr. Jignasu N. Chauhan	Head of the Department, Chairman	
2.	Dr. Rakhimol V. Issac	Member Secretary	
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