



Sant Baba Bhag Singh UNIVERSITY

Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030
Website: www.sbbsuniversity.ac.in Phone: 0181-2711163 Fax: 0181-2711555

Department of Physical Sciences

Ref. No: SBBSU/UIS/PS/2023/ 164

Date: 7/4/2023

Proceedings of Meeting of Board of Studies (BoS) of Department of Physical Sciences

As per circular wide no SBBSU/UIS/PS/2023/151 dated 07-03-2023, the meetings of the Board of Studies (BOS) for M.Sc Mathematics (2 year programme: as per New Education Policy 2020) in Department of Physical Sciences was held on 9th March 2023 at 11.00am onwards through online mode (Google Meet) for implementation of New Education policy 2020 in master programme.

Following members were present in the meeting and approved the BOS agenda:

No.	Name	Subject	Designation	Institute	Position	Signature
1	Dr. Aneet Kumar	Education	Dean Academics	SBBSU	Chairperson	Present online
2	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	Present online
3	Dr. Kulwinder Singh Parmar	Mathematics	HOD, Department of Mathematical Sciences	I.K.G. Punjab Technical University, Hoshiarpur Campus, Punjab-146001 Email: kulmaths@gmail.com dr.kulmaths@ptu.ac.in Mobile:9465884824	External Subject Expert (Mathematics)	Present online
4	Dr. Nisha Sharma	Chemistry	Coordinator, Physical Sciences, Associate Professor Chemistry	UIS	Member	Present online
5	Dr. Anju Sood	Mathematics	Associate Professor	UIS	Internal Member	Present online
6	Dr. Inderdeep Singh	Mathematics	Assistant Professor	UIS	Internal Member	Present online
7	Mr Jujhar Singh	Mathematics	Assistant Professor	UIS	Internal Member	Present online
8	Mr. Rouf Gulzar	Mathematics	Assistant Professor	UIS	Internal Member	Present online
9	Ms. Bhawna	Mathematics	Assistant Professor	UIS	Internal Member	Present online
10	Dr. Vijay Dhir(Dean UIET) / His representative				Member	Present online



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11	Dr. Aneet Kumar (Dean UIE) /His representative	Member	Present online
12	Dr. Seema Garg (Dean UIL, UICAIS)/ Her representative	Member	Present online
13	Dr Ramandeep Kaur Chahal (Dean UICM)/ Her representative	Member	Present online

Following agenda items were discussed and approved as follow:

1. Discussed and approved various schemes, credits & Syllabus of mathematics for M.Sc. Mathematics 2 year (PG049) as per New Education Policy 2020 for the admissions of session 2023-2024 onwards.
2. Approved the Incorporation of vision, mission, Programme Educational Objects (PEOs), Programme Outcome (POs), Programme Specific Outcome (PSOs), & Course Outcomes (COs) in Scheme & syllabus of M.Sc. Mathematics 2 year (PG049).
3. Discussed & Approved various curriculum aspects on the basis of Feedback of stakeholders (Students/Alumni/Teachers/Employers) i.e. Incorporation of more elective/core courses on the basis of specialization oriented, technological advancements, practicability & employable skills (Detail is attached). 2nd year research based courses have been incorporated
4. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.



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Details of Proceedings of BoS Meeting & Changes approved as per the agenda are as follows:-

- Approved Scheme and syllabus of new courses of mathematics introduced in M.Sc. Mathematics 2 year (PG046) (as per New Education Policy 2020)
- Approved new programme code, course codes for M.Sc. Mathematics 2 year (PG046).

New Courses introduced & approved in M.Sc. Mathematics 2 year (PG046) programme					
S.No.	Programme Name /Code	Course Code	Course/ Subject Name	Remarks / Observations by Experts/Stakeholders/BoS members)	Action Taken
1.	M.Sc. Mathematics 2 year (PG046)	MAT551	Real Analysis-I	As per NEP, In 2 year Master programme, major courses of Mathematics have been introduced, so that students acquire coherent knowledge of the subject.	Incorporated in the curriculum. Implemented w.e.f Academic session 2023-2024
2.	M.Sc. Mathematics 2 year (PG046)	MAT553	Complex Analysis		
3.	M.Sc. Mathematics 2 year (PG046)	MAT555	Abstract Algebra-I		
4.	M.Sc. Mathematics 2 year (PG046)	MAT557	Ordinary Differential Equation	As per NEP, In 2 year Master programme, minor courses of Mathematics have been introduced, so that students acquire basic knowledge of the subject.	
5.	M.Sc. Mathematics 2 year (PG046)	MAT559	Fluid Mechanics-I		
6.	M.Sc. Mathematics 2 year (PG046)	MAT561	Linear Algebra	As per NEP, In 2 year Master programme, this pool of major discipline elective courses has been proposed. A student has to opt any one paper from the pool.	
7.	M.Sc. Mathematics 2 year (PG046)	MAT563	Mechanics		
8.	M.Sc. Mathematics 2 year (PG046)	MAT565	Operation Research-I		
9.	M.Sc. Mathematics 2 year (PG046)	EVS003	Natural Hazard and Disaster Management	It is a value added course, to enhance the general and management skills.	
10.	M.Sc. Mathematics 2 year (PG046)	MAT552	Real Analysis-II	As per NEP, In 2 year Master programme, major courses of Mathematics have been introduced, so that students acquire coherent knowledge of the subject.	Incorporated
11.	M.Sc. Mathematics 2 year (PG046)	MAT554	Probability and Statistics		
12.	M.Sc. Mathematics 2 year (PG046)	MAT556	Abstract Algebra-II		



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	Dr. Seema Garg (Dean UIL, UICAIIS)/ Her representative	Member	Present online
3	Dr Ramandeep Kaur Chahal (Dean UICM)/ Her representative	Member	Present online

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1. Discussed and approved various schemes, credits & Syllabus of mathematics for M.Sc. Mathematics 2 year (PG046) as per New Education Policy 2020 for the admissions of session 2023-2024 onwards.
2. Approved the Incorporation of vision, mission, Programme Educational Objects (PEOs), Programme Outcome (POs), Programme Specific Outcome (PSOs), & Course Outcomes (COs) in Scheme & syllabus of M.Sc. Mathematics 2 year (PG046).
3. Discussed & Approved various curriculum aspects on the basis of Feedback of stakeholders (Students/Alumni/Teachers/Employers) i.e. Incorporation of more elective/core courses on the basis of specialization oriented, technological advancements, practicability & employable skills (Detail is attached).
4. Amendments in the course curriculum on the basis of suggestions by the experts regarding scheme and syllabus.



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1	Dr. Aneet Kumar	Education	Dean Academics	SBBSU	Chairperson	Present online
2	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	Present online
3	Dr. Kulwinder Singh Parmar	Mathematics	HOD, Department of Mathematical Sciences	I.K.G. Punjab Technical University, Hoshiarpur Campus, Punjab-146001 Email: kulmaths@gmail.com dr.kulmaths@ptu.ac.in Mobile:9465884824	External Subject Expert (Mathematics)	Present online
4	Dr. Nisha Sharma	Chemistry	Coordinator, Physical Sciences, Associate Professor Chemistry	UIS	Member	Present online
5	Dr. Anju Sood	Mathematics	Associate Professor	UIS	Internal Member	Present online
6	Dr. Inderdeep Singh	Mathematics	Assistant Professor	UIS	Internal Member	Present online
7	Mr Jujhar Singh	Mathematics	Assistant Professor	UIS	Internal Member	Present online
8	Mr. Rouf Gulzar	Mathematics	Assistant Professor	UIS	Internal Member	Present online
9	Ms. Bhawna	Mathematics	Assistant Professor	UIS	Internal Member	Present online
10	Dr. Vijay Dhir(Dean UIET) / His representative				Member	Present online
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13.	M.Sc. Mathematics 2 year (PG046)	MAT558	Partial Differential Equations	As per NEP, In 2 year Master programme, minor courses of Mathematics have been introduced, so that students acquire basic knowledge of the subject.	in the curriculum. Implemented w.e.f Academic session 2023- 2024	
14.	M.Sc. Mathematics 2 year (PG046)	MAT560	Fluid Mechanics-II			
15.	M.Sc. Mathematics 2 year (PG046)	MAT562	Discrete Mathematics	As per NEP, In 2 year Master programme, this pool of major discipline elective courses has been proposed. A student has to opt any one paper from the pool.		
16.	M.Sc. Mathematics 2 year (PG046)	MAT564	Number Theory			
17.	M.Sc. Mathematics 2 year (PG046)	MAT566	Operation Research-II			
18.	M.Sc. Mathematics 2 year (PG046)	PHY580	Applications of Physics in Mathematics			It is multidisciplinary course, to enhance the general and management skills.
19.	M.Sc. Mathematics 2 year (PG046)	RM653	Basics of Research Methodology in Physical and Mathematical Sciences	As per NEP, In 2 year Master programme, this pool of major discipline elective courses has been proposed.		Incorporated in the curriculum. Implemented w.e.f Academic session 2023- 2024
20.	M.Sc. Mathematics 2 year (PG046)	MAT651	Numerical Analysis			
21.	M.Sc. Mathematics 2 year (PG046)	MAT653	Fuzzy Set Theory			
22.	M.Sc. Mathematics 2 year (PG046)	MAT655	Field Extension and Galois Theory			
23.	M.Sc. Mathematics 2 year (PG046)	MAT657	Topology	As per NEP, In 2 year Master programme, this pool of major discipline elective courses has been proposed.		
24.	M.Sc. Mathematics 2 year (PG046)	MAT659	Introduction to special function			
25.	M.Sc. Mathematics 2 year (PG046)	MAT661	Fundamental of Python			
26.	M.Sc. Mathematics 2 year (PG046)	MAT663	Applications of ICT tools in Research	As per NEP, In 2 year Master programme, this pool of Skill Enhancement Course has been proposed.		
27.	M.Sc. Mathematics 2 year (PG046)	RM655	Publication and Research Ethics			
28.	M.Sc. Mathematics 2 year (PG046)	MAT665	Statistical Lab			



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29.	M.Sc. Mathematics 2 year (PG046)	MAT667	Dissertation-I		
30.	M.Sc. Mathematics 2 year (PG046)	MAT669	Seminar	Statistical Lab is introduce, to enhance the computational skill of the students.	
31.	M.Sc. Mathematics 2 year (PG046)	RM654	Advances in Research Methodology in Physical and Mathematical Sciences	As per NEP, In 2 year Master programme, this pool of major discipline elective courses has been proposed. Student opt any one of these subjects.	
32.	M.Sc. Mathematics 2 year (PG046)	MAT652	Fourier Series and Integral Equations		
33.	M.Sc. Mathematics 2 year (PG046)	MAT654	Functional Analysis		
34.	M.Sc. Mathematics 2 year (PG046)	MAT656	Mathematical Methods	As per NEP, In 2 year Master programme, this pool of major discipline elective courses has been proposed. Student opt any one of these subjects.	
35.	M.Sc. Mathematics 2 year (PG046)	MAT658	Fractional Calculus		
36.	M.Sc. Mathematics 2 year (PG046)	MAT660	Advanced Numerical Analysis		
37.	M.Sc. Mathematics 2 year (PG046)	MAT662	Introduction to R- Programming	As per NEP, In 2 year Master programme, the Skill Enhancement Course has been proposed.	
38.	M.Sc. Mathematics 2 year (PG046)	MAT664	Numerical Analysis Lab		
39.	M.Sc. Mathematics 2 year (PG046)	MAT666	Dissertation-II		
40.	M.Sc. Mathematics 2 year (PG046)	RM656	Scientific and Technical Writing		



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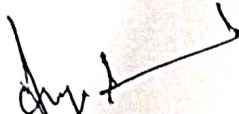
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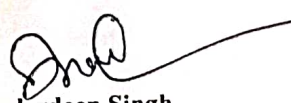
3. Other Suggestions of External Experts (Not covered above):

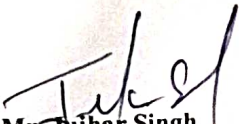
S. No.	Name of Expert	Designation/Address	Expert's suggestions	Action Taken
1	Dr Kulwinder Singh Parmar	HOD, Department of Mathematical Sciences, I.K.G. Punjab Technical University, Hoshiarpur Campus, Punjab-146001 Email: kulmaths@gmail.com dr.kulmaths@ptu.ac.in Mobile:9465884824	Expert has appreciated the efforts of faculty of mathematics and institute for well designing of syllabus. There is no need for revision.	Duly acknowledged. Revision incorporated in the syllabus


As suggested by the experts, all amendments have been incorporated in scheme and syllabus.


Meeting ended with the thanks by Dean Academics.

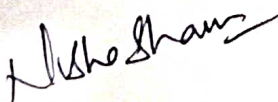

Dr. Anju Sood
Associate Professor (Mathematics)



Dr Inderdeep Singh
Assistant Professor (Mathematics)


Mr. Jujhar Singh
Assistant Professor (Mathematics)


Mr. Rouf Gulzar
Assistant Professor (Mathematics)


Bhatyna Kumari
Assistant Professor (Mathematics)


Dr Nisha Sharma
(Associate Professor Chemistry)
HOD, Physical Sciences (UIS, SBBSU)


Dean of Institute (UIS, SBBSU)



Sant Baba Bhag Singh University

(University Established under Punjab Act No.0 of 2013)
Vill. Khiala, P.O. Padhiana, Dist. Jalandhar, Punjab, INDIA

External Expert Review Performa For Board of Studies

Name of External Expert : Dr. Kulwinder Singh Parmar
Discipline : Mathematics
Designation : Assistant Professor
Organization (Name & Address) : I K Gujral Punjab Technical University
Contact No. : 9465884824
E-Mail ID : kulmaths@gmail.com, dr.kulmaths@ptu.ac.in
Date of Visit/Meeting : 09/03/2023

Reviewer's Comments :- I have satisfied with the present new syllabus of M.Sc (Hons) Mathematics according as NEP.
This syllabus is very much according to the new era of Mathematics. It is good combination of classical and applied Mathematics.

❖ Use extra sheet(s) if required.

Signature

Kulwinder Singh


Date. 02/04/2023

Dr. Kulwinder Singh



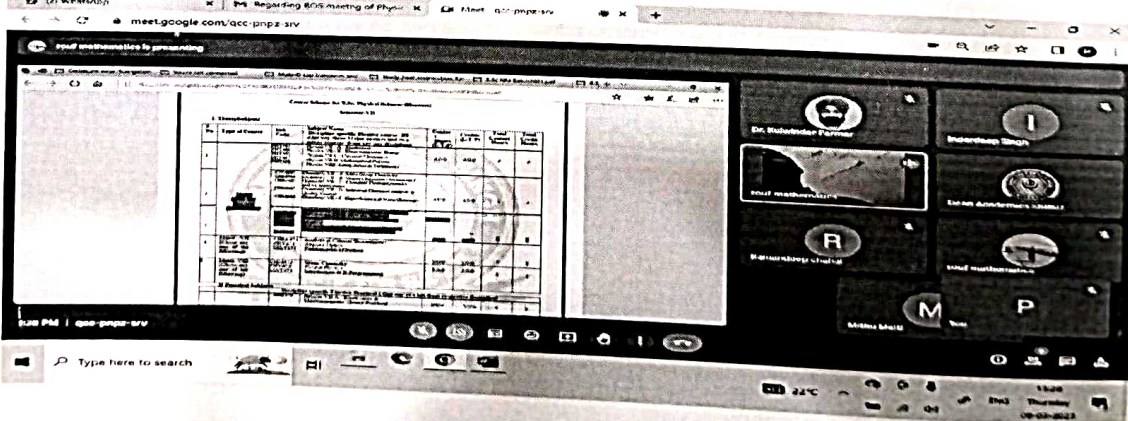
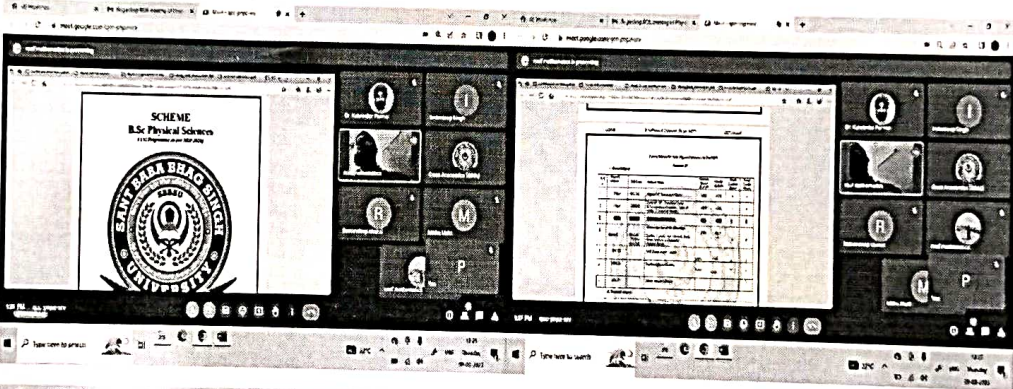
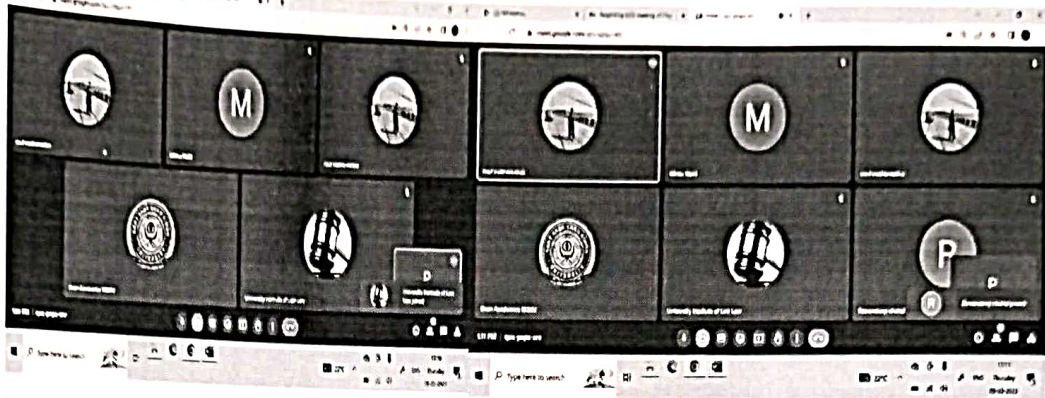
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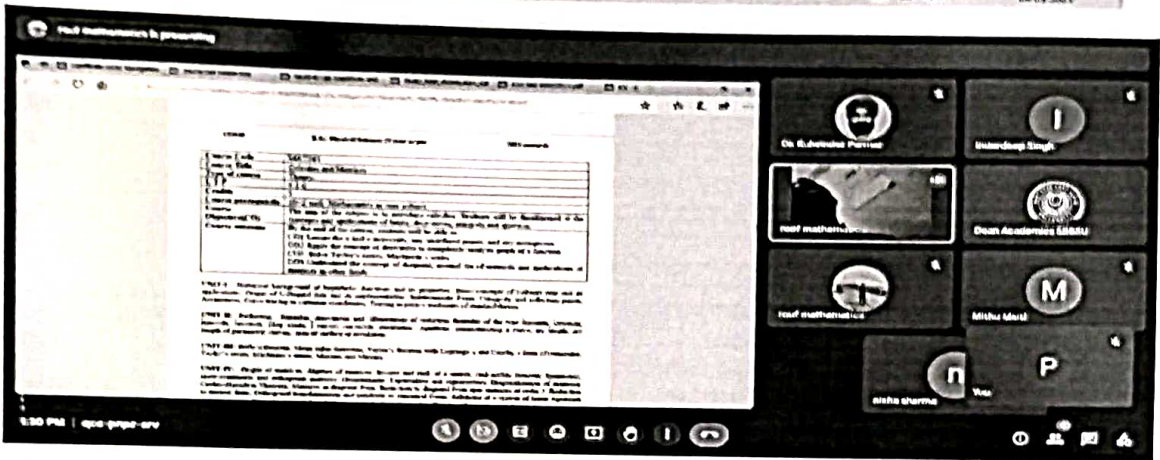

Coordinator/HOD's/Dean's


Dean Academics

BOS for Discipline of Mathematics (9/3/2023)



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Mishu Math