

Yashwantrao Chavan Maharashtra Open University

School of Sciences

(Formerly School of Architecture, Science and Technology)

Minutes of the PAC V151: M.Sc. Mathematics {2023 Pattern}

Meeting held on 26.07.2023

Date: 26th July, 2023

Time: 02.30 pm to 04.00 pm

The PAC Meeting for V151: M.Sc. Mathematics {2023 Pattern} programme as per NEP 2020 of **School of Sciences** was held offline & online on **Wednesday, 26-07-2023 at 02:30 PM** at school meeting hall. Following members and invitees were present,

01	Dr. Chetana Kamlaskar	(Chairperson) and Member
02	Prof. Dr. Meenakshi P. Wasadikar	Member
03	Prof. Dr. S.R. Chaudhari	Member
04	Prof. Dr. Shivdas D. Katore	Member
05	Ms. Tejaswi Kadam	Invitee
06	Dr. Bharat More	Invitee
07	Mr. Manish Shingare	Invitee
08	Mr. Ghanashyam Patil	Invitee
09	Mr. Rahul Navale	Invitee

Following members & invitees were absent for online ZOOM Meeting. However, following PAC members have provided their inputs through E-Mail and What's App.

01	Dr. Sunanda More	Member
02	Prof. Dr. T.M. Karade	Member
03	Prof. Dr. J.N. Salunke	Member
04	Ms. Sweta Kapade	Invitee

Dr. Chetana Kamlaskar, Chairperson and Member of the PAC (M.Sc. Mathematics), first welcomed PAC members and introduced the members about the purpose of the meeting. During the meeting following items were discussed.

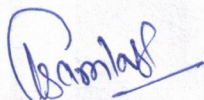
SN	Details of Items	Resolution
1	Agenda 1: To finalize and approve proposed Programme structure, Credit Distribution, Detailed syllabus and Evaluation pattern of all courses of V151: M.Sc. Mathematics {2023 Pattern} as per NEP 2020	The PAC members unanimously finalised and approved the programme structure and syllabus of proposed V151: M.Sc. Mathematics {2023 Pattern} as per NEP 2020 with few suggestions. Suggested modifications in programme structure are as follows: For each semester from 01 to 03, Credit distribution for mandatory courses DSC is 3x4+2: 1T(4)+1T(4)+1P(4)+1T(2) = 14 credits = 10T+ 4P, and for semester 04 Credit distribution for mandatory

		courses DSC is 3x4: 1T(4)+1T(4)+1P(4) = 12 credits = 8T+ 4P
		Suggestions by PAC members: Prof. Dr. S.R. Chaudhari suggested to increase the number of credits for practical courses and to decrease the number of credits for theory courses so that the credit distribution in programme structure as per NEP 2020 will be compatible with that of the other conventional universities. Prof. Dr. Meenakshi P Wasadikar suggested to include Topology as core course instead of as an elective course. Also, provided additional references for Linear Algebra. Prof. Dr. T.M. Karade and Prof. Dr. J.N. Salunke conveyed their suggestions through mail. Both of them provided additional references for syllabus contents. The PAC members unanimously finalised and approved the the following 4 practical courses: - Programming in C and Scilab - LaTeX and Programming in SageMath - Mathematical Statistics & Combinatorics - Programming in Python
	Action Taken: Programme structure has been modified accordingly. Refer Appendix I for modified programme structure. Note: Updated syllabus as per the modified programme structure will be sent to you by mail within next two days.	
2	Agenda 2: To frame guidelines for OJT/FP and RP	The PAC members unanimously approved the proposed OJT and RP guidelines along with evaluation pattern. PAC members suggested to consult with NGO, Academic & Research institutes for OJT/FP. It is also resolved to authorize the Director of this School to enrich and update the OJT/FP, RP guidelines from time to time as per the University Policy decisions/norms.
3	Agenda 3: To recommend additional elective courses (DSE)	The PAC members unanimously finalised and approved Algebraic Topology as a new elective course. Also, agreed to recommend additional elective courses which will be offered in phase wise manner as per industry needs. It is also resolved to authorize the Director of this School to update the elective courses from time to time as per the University Policy decisions/norms.

4	Agenda 4: To identify writers/editors for Self Learning Material [SLM] development task	The PAC members unanimously gave their consent for writing/editing of the Self Learning Material [SLM] for the V151: M.Sc. Mathematics {2023 Pattern} programme. PAC members agreed to recommend experts for new practical and elective courses, in due course of time. It is also resolved to authorize the Director of this School to enrich and update the list of writers/editors for Self Learning Material [SLM] development task from time to time as per the University Policy decisions/norms.
5	Timely subjects if any: To discuss about Research Methodology course content	Fruitful discussion occurred among all PAC members on Research Methodology course content. The PAC members unanimously approved RM Syllabus with suggestions to include content on start-up, innovation and entrepreneurship.

Meeting ends with vote of thanks by **Dr. Chetana Kamlaskar**.

Thanks...



(Dr. Chetana Kamlaskar)

Chairperson, PAC (M.Sc. Mathematics)

APPENDIX I: PROGRAMME STRUCTURE- V151: M.Sc. MATHEMATICS {2023 PATTERN} AS PER NEP 2020

Year (2 Yr. PG)	Level / Sem.	Major				RM	OJT/ FP	RP	Cum. Cr.
		Mandatory (DSC)	Cr	Elective (DSE)	Cr				
I	6.0/ Sem I	MAT501: Real Analysis (T)	4	MAT506: Operations Research (T) OR MAT507: Numerical Analysis (T)	4	RES505: Research Methodology (T) (4 Cr)	-	-	22
		MAT502: Abstract Algebra(T)	4						
		MAT503: Ordinary Differential Equations (T)	2						
		MAT504: Programming in C and Scilab (P)	4						
	6.0/ Sem II	MAT509: Topology (T)	4	MAT515: Number Theory (T) OR MAT516: Field Theory (T)	4	MAT513: OJT (4 Cr) OR MAT514:FP (4 Cr)	-	22	
		MAT510: Linear Algebra (T)	4						
		MAT511: Partial Differential Equations (T)	2						
		MAT512: LaTeX and Programming in SageMath (P)	4						
Cum. Cr. For 1 Years PG Diploma		28		8		4	4	-	44
Exit option: PG Diploma (44 Credits) after Three Year UG Degree PGD 9-MAT: Post Graduate Diploma in Mathematics									
II	6.5/ Sem III	MAT601: Complex Analysis (T)	4	MAT606: Discrete Mathematics (T) OR MAT607: Differential Geometry (T) OR MAT608: Integral Transforms (T)	4		-	MAT605: Research Project (4 Cr)	22
		MAT602: Measure and Integration Theory (T)	4						
		MAT603: Integral Equations (T)	2						
		MAT604: Mathematical Statistics & Combinatorics (P)	4						
	6.5/ Sem IV	MAT609: Classical Mechanics (T)	4	MAT613: Cryptography (T) OR MAT614: Topics in Fuzzy Mathematics (T) OR MAT615: Algebraic Topology (T)	4	-		MAT612: Research Project (6 Cr)	22
		MAT610: Functional Analysis (T)	4						
		MAT611: Programming in Python (P)	4						
Cum. Cr. For 2 Years PG Degree		54		16		4	4	10	88
2 Years-4 Sem. PG Degree (88 credits) after Three Year UG Degree									