

Yashwantrao Chavan Maharashtra Open University

SCHOOL OF SCIENCES, YCMOU, Nashik

(FORMERLY SCHOOL OF ARCHITECTURE, SCIENCE AND TECHNOLOGY)

Minutes of the V153: M.Sc. (Physics) Programme Advisory Committee Meeting Held on 26.07.2023

The Meeting of **PAC for V153: M.Sc. (Physics) {2023 Pattern}** as per NEP-2020 was held offline and online on Wednesday, **July 26, 2023 at 11:30 AM**. The following members and invitees were present:

01	Dr. Chetana Kamlaskar	Chairperson and Member
02	Dr. Dnyaneshvar Shaligram Patil	Member
03	Dr. Vaishali Bambole	Member
04	Dr. Pravin Prabhakar Joshi	Member
05	Dr. Ganesh Jagannath Mogal	Member
06	Ms. Sweta Kapade	Member
07	Ms. Tejaswi Kadam	Invitee
08	Mr. Manish Shingare	Invitee
09	Mr. Ghanashyam Patil	Invitee
10	Mr. Bharat More	Invitee

Following members and invitees are not present in the online meeting, but they are given their inputs offline.

01	Dr. Sunanda More	Member
02	Dr. Mahendra D. Shirsat	Member
03	Dr. Shrikrishna Dattatraya Sartale	Member

Meeting Agenda and Resolution

Dr. Chetana Kamlaskar, Chairperson and Member of the PAC (M.Sc. Physics), first welcomed PAC members and introduced the members to the purpose of the meeting. During the meeting, the 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 "V153: M.Sc. (Physics) {2023 Pattern} as per NEP-2020"	The PAC members unanimously finalized and approved the Programme structure and syllabus of the proposed V153: M.Sc. (Physics) {2023 Pattern} as per NEP-2020 (GR dated May 16, 2023), with programme structure and credit distribution as follows: Credit distribution for mandatory courses (total 14 credits for each semesters 01-03 and total 12 credits for semester 04): • 2 Theory with 4 Credits • 1 Theory with 2 Credits • 1 Practical with 4 Credits Dr. Mahendra D. Shirsat (PAC member) and Dr. Shrikrishna Dattatraya Sartale (PAC member) have given their inputs from time to time in offline mode.

Programme Structure

Year (2 Yr. PG)		Level/ Sem	Major							Cum . Cr.		
			Mandatory (DSC)		Cr	Elective (DSE)		Cr	RM	OJT/ FP	RP	
I	6.0/ Sem I	PHY501: Classical Mechanics (T)	4	PHY 506: Experimental Techniques in Physics (T) OR PHY 507: Physics of LASERS (T)	4	RES505: Research Methodology (T) (4 Cr)		-	-	22		
		PHY502: Electronic Devices (T)	4									
		PHY503: Mathematical Methods in Physics (T)	2									
		PHY504: Physics I – Practical (P)	4									
	6.0/ Sem II	PHY509: Atomic and Molecular Physics (T)	4	PHY515: Fundamentals of Materials Science (T) OR PHY516: Medical Physics (T)	4	4	-	PHY513: OJT (4 Cr) OR PHY514: FP (4 Cr)	-	22		
		PHY510: Electrodynamics (T)	4									
		PHY511: Quantum Mechanics - I (T)	2									
Cum. Cr. for 1 Years PG Diploma		PHY512: Physics II – Practical (P) (Computational Methods using 'C' program)	4									
		28	8		4	4	-	44				
Exit option: PG Diploma (44 Credits) after Three Year UG Degree PGD II-PHY: Post Graduate Diploma in Physics												
II	6.5/ Sem III	PHY601: Statistical Mechanics (T)	4	PHY606: Physics of Thin Film (T) OR PHY607: Astronomy and Astrophysics (T) OR PHY608: Energy Studies (T)	4	-	-	PHY605: Research Project (4 Cr)	22			
		PHY602: Condensed Matter Physics (T)	4									
		PHY603: Quantum Mechanics - II (T)	2									
		PHY604: Physics III - Practical (P)	4									
	6.5/ Sem IV	PHY609: Nuclear and Particle Physics (T)	4	PHY613: Physics of Nano Materials(T) OR PHY614: General Relativity & Cosmology(T) OR PHY615: Energy from Waste (T)	4	-	-	PHY612: Research Project (6 Cr)	22			
		PHY610: Electronic Instrumentation (T)	4									
		PHY611: Physics IV – Practical (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												

Abbreviations: Yr.: Year; Sem.: Semester; Cumulative Credits: Cum. Cr.; T- Theory Course; P- Practical course; TW- Term Work; PW- Project Work

SN	Details of Items	Resolution
2	Agenda 2: Finalization and approval for syllabus of Research Methodology course offered in all PG Programme by PAC members.	The PAC members unanimously finalized and approved the syllabus of the Research Methodology course offered in all PG Programme by PAC members, with Dr. Vaishali Bambole (PAC member) suggesting: - Some contents are to be added in Unit 4.2: Intellectual Property Rights (IPR). - Include content on start-ups, Skill development, innovation, and entrepreneurship. The syllabus will be modified accordingly.
3	Agenda 3: Finalization and approval for elective courses and their syllabus offered in M.Sc. Physics Programme by PAC members.	A few new elective courses unanimously finalized and approved by PAC members (Dr. Dnyaneshvar Shaligram Patil) along with their content are as follows: - Medical Physics, - Astronomy and Astrophysics, - Electronics It is also resolved to authorize the Director of this School to enrich and update the elective courses from time to time as per industry needs and University Policy decisions and norms.
4	Agenda 4: Finalization and approval for on-the-job training (OJT), internship, and Field Project (FP) and their guidelines offered in the M.Sc. Physics Programme by PAC members	The PAC members unanimously approved the proposed On-the-Job Training (OJT), Internship, Field Project (FP), and RP guidelines, along with evaluation patterns. During discussion on the proposed OJT guidelines, Dr. Pravin Prabhakar Joshi (PAC member) and Dr. Ganesh Jagannath Mogal (PAC member) suggested consulting NGO and academic institutes for OJT and FP. It is also resolved to authorize the Director of this School to update the guidelines for on-the-job training (OJT)/ Internship, Field Project (FP), and Research Project (RP) from time to time as per industry needs and University Policy decisions or norms.
	General discussion:	An overall discussion of the above agenda was done briefly with the active participation of all members. PAC members appreciated the efforts taken by the School in preparing the program structure and its syllabus as per NEP 2020 guidelines. A vote of Thanks was proposed by Mr. Bharat More.


Dr. Chetana Kamlaskar
 Director,
 School of Sciences