

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Faculty of Science and Technology

Structure as per NEP-2020

Structure for Two Year PG Program (M.Sc.-Physics) Degree

Level/ Difficulty	Sem.	Major		RM	Field Project/ RP/ /Internship/Appre nticeship/	Credits	Cumulati ve Credits
		Mandatory	Elective				
6.0/400	I	DSC-1 (4+2) Mathematical Physics	DSE -1 (4+2) Analog & Digital Electronics	Research Methodology (4)	----	22	44 PG Diploma in Discipline
		DSC-2(4+2) Solid State Physics					
	II	DSC-3(4+2) Quantum Mechanics	DSE -2 (4+2) Classical Mechanics	-----	OJT/FP (04)	22	
		DSC– 4 (4+2) Electrodynamics					
Cum. Cr. For PG Diploma		24	12	04	04	44	
6.5/400	III	DSC-5 (4+2) Statistical Physics	DSE-3 (4+2) 1. Microcontrollers & Interfacing 2. Physics of Nanomaterials 3. Energy Harvesting Devices 4. Semiconductor Physics	-----	RP (4)	22	88 PG Degree in Discipline
		DSC-6 (4+2) Atomic & Molecular Physics					
	IV	DSC-7 (4+2) Physics of Semiconductor Devices	DSE-4 (4+2) 1. Communication System 2. Advanced Techniques of Materials Characterization 3. Nanomaterials Characterization Techniques	-----	RP (6)	22	
		DSC-8 (4) Nuclear and Particle Physics					
Cum. Cr. for 1 Yr PG Degree		22	12	-----	10	44	
Cum. Cr. for 2 Yr PG Degree		46	24	04	14	88	

Abbreviations:

OJT: On Job Training; Internship/ Apprenticeship;

RM: Research Methodology;

FP: Field projects;

RP: Research Project;