

M. Sc. (Physics) CBCS Pattern

Semester I

Paper I (Core 1) : PSPHYT01-Mathematical Physics
Paper II (Core 2) : PSPHYT02-Complex Analysis and Numerical Methods
Paper III (Core 3) : PSPHYT03-Electronics
Paper IV (Core 4) : PSPHYT04-Electrodynamics I
Practical I (Core 1 & 2) : PSPHYP01 (Paper I & II)
Practical II (Core 3 & 4) : PSPHYP02 (Paper III & IV)
Seminar I

Semester II

Paper V (Core 5) : PSPHYT05-Quantum Mechanics I
Paper VI (Core 6) : PSPHYT06-Statistical Physics
Paper VII (Core 7) : PSPHYT07-Classical Mechanics
Paper VIII (Core 8) : PSPHYT08-Electrodynamics II
Practical III (Core 5 & 6) : PSPHYP03 (Paper V & VI)
Practical IV (Core 7 & 8) : PSPHYP04 (Paper VII & VIII)
Seminar II

Semester III

Paper IX (Core 9) : PSPHYT09- Quantum Mechanics II
Paper X (Core 10) : PSPHYT10-Solid State Physics and Spectroscopy
Paper XI (Core Elective I) : PSPHYT11- Material Science I OR Nanoscience I OR Nanotechnology I OR Atomic and Molecular Physics I
Paper XII (Foundation Course I) : PSPHYT12- Fundamental of Spectroscopy OR Fundamental of Nanoscience and Nanotechnology
Practical V : PSPHYP05 (Based on Core 9 and core 10)
Practical VI : PSPHYP06 (Elective I)
Seminar III

Semester IV

Paper XIII (Core 11): PSPHYT13- Nuclear and Practical Physics
Paper XIV (Core 12): PSPHYT14- Solid State Physics
Paper XV (Core Elective II: PSPHYT15- Material Science II OR Nanoscience I OR Nanotechnology II OR Atomic and Molecular Physics II
Paper XVI (Foundation Course II): PSPHYT16- Spectroscopic Applications OR Optics and Optical Instruments
Practical VII : PSPHYP07 (Elective II) (Based on Core 11 and Core 12)
Practical VIII: PSPHYP08 - Project (Dissertation)
Seminar IV

Code	Theory Practical	Teaching Scheme			Credit	Examination Marking Scheme					
		Hrs. / Week				Duration	Maximum Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
SEMESTER I											
PSPHYT01	Paper I	4	--	4	4	3	80	20	100	40	--
PSPHYT02	Paper II	4	--	4	4	3	80	20	100	40	--
PSPHYT03	Paper III	4	--	4	4	3	80	20	100	40	--
PSPHYT04	Paper IV	4	--	4	4	3	80	20	100	40	--
PSPHYP01	Practical I	--	8	8	4	3-8*	80	20	100	--	40
PSPHYP02	Practical II	--	8	8	4	3-8*	80	20	100	--	40
Seminar	Seminar I	2	--	2	1	--	--	25	25	10	--
Total		18	16	34	25	--	480	145	625	170	80
SEMESTER II											
PSPHYT05	Paper V	4	--	4	4	3	80	20	100	40	--
PSPHYT06	Paper VI	4	--	4	4	3	80	20	100	40	--
PSPHYT07	Paper VII	4	--	4	4	3	80	20	100	40	--
PSPHYT08	Paper VIII	4	--	4	4	3	80	20	100	40	--
PSPHYP03	Practical III	--	8	8	4	3-8*	80	20	100	--	40
PSPHYP04	Practical IV	--	8	8	4	3-8*	80	20	100	--	40
Seminar	Seminar II	2	--	2	1	--	--	25	25	10	--
Total		18	16	34	25	--	--	145	625	170	80
SEMESTER III											
PSPHYT09	Paper IX	4	--	4	4	3	80	20	100	40	--
PSPHYT10	Paper X	4	--	4	4	3	80	20	100	40	--
PSPHYT11 (Core Elective I)	Paper XI	4	--	4	4	3	80	20	100	40	--
PSPHYT12 (Foundation Course I)	Paper XII	4	--	4	4	3	80	20	100	40	--
PSPHYP05	Practical V	--	8	8	4	3-8*	80	20	100	--	40
PSPHYP06 (Elective I)	Practical VI	--	8	8	4	3-8*	80	20	100	--	40
Seminar	Seminar III	2	--	2	1	--	--	25	25	10	--
Total		18	16	34	25	--	--	145	625	170	80
SEMESTER IV											
PSPHYT13	Paper XIII	4	--	4	4	3	80	20	100	40	--
PSPHYT14	Paper XIV	4	--	4	4	3	80	20	100	40	--
PSPHYT15 (Core Elective II)	Paper XV	4	--	4	4	3	80	20	100	40	--
PSPHYT16 (Foundation Course II)	Paper XVI	4	--	4	4	3	80	20	100	40	--
PSPHYP07 (Elective II)	Practical VII	--	8	8	4	3-8*	80	20	100	--	40
PSPHYP08	Project	--	8	8	4	3-8*	80	20	100	--	40
Seminar	Seminar IV	2	--	2	1	--	--	25	25	10	--
Total		18	16	34	25	--	480	145	625	170	80