

SCHOOL OF PHYSICAL SCIENCES

Year	Sem	Course Code	Credit	Course Name (Core)		
1	I	P101	3	Physics I (Mechanics & Thermodynamics)		
		P141	2	Physics Laboratory I		
	II	P102	3	Physics II (Electricity, Magnetism & Optics)		
		P142	2	Physics Laboratory II		
2	III	P201	4	Classical Mechanics I		
		P202	4	Mathematical Methods I		
		P203	4	Electronics		
		***	4	Out-of-stream Elective		
		P241	2	General Physics Lab		
		P242	2	Modern Physics Lab I		
	IV	P204	4	Electromagnetism I		
		P205	4	Mathematical Methods II		
		P206	4	Quantum Mechanics I		
		***	4	Out-of-stream Elective		
		P243	2	Basic Electronics Lab		
		P244	2	Optics Lab		
		3	V	P302	4	Statistical Mechanics
				P303	4	Quantum Mechanics II
P304	4			Special Theory of Relativity		
P307	4			Nuclei & Particle		
***	4			Out-of-stream Elective		
P341	2			Advanced Electronics Lab		
P342	2			Computational Lab		
VI	P301			4	Electromagnetism II	
	P305		4	Atoms, Molecules & Radiation		
	P306		4	Introduction to Condensed Matter Physics		
	***		4	Out-of-stream Elective		
	P343		2	Modern Physics Lab II		
	P344		2	Solid State Physics Lab I		
4	VII		P401	4	Classical Mechanics II	
		***	4 × 3	3 Electives of 4 credit each		
		P441	4	Laser & Spectroscopy Lab		
		P442	4	Solid State Physics Lab II		
	VIII	***	4 × 4	4 Electives of 4 credit each		
		P443	4	Integrated Physics Lab I		
		P444	4	Integrated Physics Lab II		
		5	IX	***	4 × 3	3 Electives of 4 credit each
				P598	12	Physics Project
			X	***	4 × 3	3 Electives of 4 credit each
P599	12			Physics Dissertation (continuation of P598)		

A minimum of 6 Elective courses in 4th and 5th year must be chosen from School of Physical Sciences. At least **150** credit of Physics courses is required to be taken to get M.Sc. degree in Physical Sciences.

S. Basal
12/11/12

Year	Course Code	Credit	Course Name (Elective)
IV & V	P451	4	Advanced Solid State Physics
	P452	4	Computational Physics
	P453	4	Quantum Field Theory I
	P454	4	Particle Physics
	P455	4	Phase Transition & Critical phenomena
	P456	4	Nonlinear Optics & Lasers
	P457	4	General Relativity & Cosmology
	P458	4	Soft Condensed Matter
	P459	4	Applied Nuclear Physics
	P460	4	Many Body Physics
	P461	4	Physics of Mesoscopic Systems
	P462	4	Introduction to Quantum Optics
	P463	4	
	P464	4	Plasma Physics & Magnetohydrodynamics
	P465	4	
	P466	4	Quantum & Nano Electronics
	P467	4	
	P468	4	Magnetism & Superconductivity
	P469	4	Density Functional Theory
	P470	4	Quantum Field Theory II
P471	4	Quantum Information	

S. Basu
17/11/12