

CBCS Based M.Sc. Applied Physics Course Structure (w.e.f., Session 2015-16)					
S.No.	CODE	COURSE NAME	CBCS Category	L-T-P	CREDITS
SEMESTER-I					
1	PH401	Classical Mechanics and Relativity	C	4-0-0	4
2	PH403	Electrodynamics	C	4-0-0	4
3	PH405	Quantum Mechanics-I	C	4-0-0	4
4	PH407	Mathematical Physics	C	4-0-0	4
5	PH409	Statistical Physics	C	4-0-0	4
6	PH411	Physics Laboratory-I	C	0-0-8	4
7	EN501	Advanced course in Professional Communications	AEC	2-0-0	2
		TOTAL		22-0-8	26
		Total Contact Hours		30	
SEMESTER-II					
1	PH402	Quantum Mechanics-II	C	4-0-0	4
2	PH404	Computer Programming	SEC	2-0-3	4
3	PH406	Solid State Physics	C	4-0-0	4
4	PH408	Electronics	C	4-0-0	4
5		Generic Elective*	GE*	3-0-0	3
6	PH410	Physics Laboratory-II	C	0-0-8	4
		TOTAL		17-0-11	23
		Total Contact Hours		28	
SEMESTER-III					
1	PH501	Atomic & Molecular Physics	C	4-0-0	4
2	PH503	Nuclear & Particle Physics	C	4-0-0	4
3	PH505	Laser Systems and Applications	C	3-0-0	3
4	PH507	Computational Physics	SEC	3-0-0	3
5		DSE-I #	DSE	3-0-0	3
6	PH513	Computational Physics Laboratory	SEC	0-0-4	2
7	PH515	Physics Laboratory-III	C	0-0-8	4
8	PH517	Mini Project	Project	0-0-6	3
		TOTAL		17-0-18	26
		Total Contact Hours		35	
SEMESTER-IV					
1		DSE-II ##	DSE	3-0-0	03
2		DSE-III ###	DSE	3-0-0	03
2	PH510	Major Project	Project	0-0-30	15
		TOTAL		6-0-30	21
		Total Contact Hours		30	
Total credits for all semesters					96
* GENERIC ELECTIVE (GE)					
S.No.	CODE	COURSE NAME	CREDITS		
	EC536	VLSI Technology	3		
	EC550	Advanced Microwave Communication	3		
# DISCIPLINE SPECIFIC ELECTIVES (DSE-I)					
1	PH509	Fundamentals of Photonics and Optoelectronics	3		
2	PH511	Characterization of Solid State Materials	3		
# # DISCIPLINE SPECIFIC ELECTIVES (DSE-II)					
1	PH-502	Nanoscience and Nanotechnology	3		
2	PH504	Optical Fiber Communications	3		
# # # DISCIPLINE SPECIFIC ELECTIVES (DSE-III)					
1	PH506	Nanophotonics and Nanoplasmonics	3		
2	PH508	Soft Electronic Materials and Devices	3		

New course structure will be effective from admissions in 2015-2016. School/Department will not be bound to run all the courses. Minimum number of students may be fixed to run any elective course.