



Faculty of Physical Sciences

Course Name: M.Sc. - Physics

PDM University, Bahadurgarh, Haryana – 124507

Established under Haryana Private Universities

(Amendment), Act, 2015 (Haryana Act No.1 of 2016)

PDM University, Bahadurgarh, Haryana

Faculty of Physical Sciences
Department of Physics
M. Sc. - Physics

Scheme of Studies and Examination

1st Semester

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Classical Mechanics	PHYS5101	4	1	0	5	4.5	40	60	100
2	Quantum Mechanics(I)	PHYS5102	4	1	0	5	4.5	40	60	100
3	Nuclear and Particle Physics	PHYS5103	4	1	0	5	4.5	40	60	100
4	Electronic devices	PHYS5104	4	1	0	5	4.5	40	60	100
5	Physics Lab-1	PHYS5105	0	0	8	8	4.0	15	35	50
		Total	16	4	8	28	22			450

2nd Semester

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Atomic and Molecular Physics	PHYS5106	4	1	0	5	4.5	40	60	100
2	Quantum Mechanics (II)	PHYS5107	4	1	0	5	4.5	40	60	100
3	Electromagnetic Theory	PHYS5108	4	1	0	5	4.5	40	60	100
4	Modern Optics	PHYS5109	4	1	0	5	4.5	40	60	100
5	Physics Lab-II	PHYS5110	0	0	8	8	4	15	35	50
		Total	16	4	8	28	22			450

3rd Semester

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Statistical Mechanics	PHYS6101	4	1	0	5	4.5	40	60	100
2	Computational Physics	PHYS6102	1	2	0	3	2.0	20	30	50
3	Computational Physics Lab	PHYS6103	0	0	4	4	2.0	15	35	50

4	Elective I Module (Theory): Solid State Physics OR Adv. Electronics OR Nuclear Physics	PHYS6201 PHYS6203 PHYS6205	4	0	0	4	4.0	40	60	100
5	Elective II Module (Lab): Solid State Physics OR Adv. Electronics OR Nuclear Physics	PHYS6202 PHYS6204 PHYS6206	0	0	8	8	4.0	40	60	100
6	Elective III Opt one paper out of: General Theory of Relativity and Cosmology Plasma Physics Physics at Nano-Scale Quantum Field Theory Advanced Mathematical Physics Advanced Solid State Physics Astronomy and Astrophysics Particle Physics Condensed Matter Physics	PHYS6207 PHYS6208 PHYS6209 PHYS6210 PHYS6211 PHYS6212 PHYS6213 PHYS6214 PHYS6215	4	0	0	4	4.0	40	60	100
		Total	16	2	10	28	22			500

4th Semester

1	Elective I Module (Theory) : Solid State Physics OR Adv. Electronics OR Nuclear Physics	PHYS6216 PHYS6218 PHYS6220	4	0	0	4	4.0	40	60	100
2	Elective II Module (Lab) : Solid State Physics OR Adv. Electronics OR Nuclear Physics	PHYS6217 PHYS6219 PHYS6221	0	0	6	6	3.0	40	60	100
3	Elective III Opt one paper out of: General Theory of Relativity and Cosmology Plasma Physics Physics at Nano-Scale Quantum Field Theory Advanced Mathematical Physics Advanced Solid State Physics Astronomy and Astrophysics Particle Physics Condensed Matter Physics	PHYS6222 PHYS6223 PHYS6224 PHYS6225 PHYS6226 PHYS6227 PHYS6228 PHYS6229 PHYS6230	4	1	0	5	4.5	40	60	100
4	Elective Project	PHYS6231	0	0	15	15	7.5	50	150	200
	Total									500
	Grand Total									2000