



Faculty of Physical Sciences

Course Name: B.Sc. (H) - Physics

PDM University, Bahadurgarh, Haryana – 124507

**Established under Haryana Private Universities
(Amendment), Act, 2015 (Haryana Act No.1 of 2016)**

**Faculty of Physical Sciences
Department of Physics**

**B. Sc. (Hons.) Physics
Semester: I**

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	English Communication	ENGL0103	2	0	0	2	2.0	40	60	100
2	Mathematical Physics-I	PHYS1105	4	0	0	4	4.0	40	60	100
3	Mathematical Physics-I Lab	PHYS1106	0	0	4	4	2.0	15	35	50
4	Advanced Mechanics	PHYS1107	4	0	0	4	4.0	40	60	100
5	Advanced Mechanics Lab	PHYS1108	0	0	4	4	2.0	15	35	50
6	Fundamentals of Computer	CSEN0306	4	0	0	4	4.0	40	60	100
7	Fundamentals of Computer Lab	CSEN0307	0	0	4	4	2.0	15	35	50
8	Foreign Language French German Spanish	LANF0101 LANG0102 LANS0103	2	0	0	2	2	25	50	75
		Total	16	0	12	28	22			625

Faculty of Physical Sciences
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B. Sc. (Hons.) Physics
Semester: II

S No	Course Title	Course Code	Teaching Schedule per week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1	Environmental Science	ENVS0102	2	0	0	2	2	40	60	100
2	Advanced Electricity and magnetism	PHYS1109	4	0	0	4	4	40	60	100
3	Advanced Electricity and magnetism Lab	PHYS1110	0	0	4	4	2	15	35	50
4	Wave and Optics	PHYS1111	4	0	0	4	4	40	60	100
5	Wave and Optics Lab	PHYS1112	0	0	4	4	2	15	35	50
6	Introduction to Programming(GE)	CSEN0328	4	0	0	4	4	40	60	100
7	Introduction to Programming Lab(GE)	CSEN0329	0	0	4	4	2	15	35	50
8	Foreign Language French German Spanish	LANF0104 LANG0105 LANS0106	2	0	0	2	2	25	50	75
		Total	16	0	12	28	22			625

**Faculty of Physical Sciences
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B. Sc. (Hons.) Physics

Semester: III

S No	Course Title	Course Code	Teaching Schedule per week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1	Mathematical Physics-II	PHYS2105	4	0	0	4	4	40	60	100
2	Mathematical Physics-II Lab	PHYS2106	0	0	4	4	2	15	35	50
3	Thermal Physics	PHYS2107	4	0	0	4	4	40	60	100
4	Thermal Physics Lab	PHYS2108	0	0	4	4	2	15	35	50
5	Digital Systems and Applications	PHYS2109	4	0	0	4	4	40	60	100
6	Digital Systems and Application Lab	PHYS2110	0	0	4	4	2	15	35	50
7	New Venture Planning- Entrepreneurship (SEC-I)	MGMT0103	2	0	0	2	2	40	60	100
8	Data Base Management Systems (GE)	CSEN0304	4	0	0	4	4	40	60	100
9	Data Base Management Systems Lab (GE)	CSEN0305	0	0	4	4	2	15	35	50
10	Minor Group Project	PHYS2111				4	2	0	50	50
11	YOGA	VALU0118	0	0	2	2	1	25	25	50
		Total	16	0	12	28	29			800

**Faculty of Physical Sciences
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**B. Sc. (Hons.) Physics
Semester: IV**

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Mathematical Physics-III	PHYS2112	4	0	0	4	4.0	40	60	100
2	Mathematical Physics-III Lab	PHYS2113	0	0	4	4	2.0	15	35	50
3	Elements of Modern Physics	PHYS2114	4	0	0	4	4.0	40	60	100
4	Elements of Modern Physics Lab	PHYS2115	0	0	4	4	2.0	15	35	50
5	Analog Systems and Applications	PHYS2116	4	0	0	4	4.0	40	60	100
6	Analog Systems and Applications Lab	PHYS2117	0	0	4	4	2.0	15	35	50
7	Basics of IT (SEC-II)	CSEN0103	2	0	0	2	2.0	40	60	100
8	Computer network and Internet (GE)	CSEN0330	4	0	0	4	4.0	40	60	100
9	Computer network and Internet Lab (GE)	CSEN0331	0	0	4	4	2.0	15	35	50
10	Minor Individual Project	PHYS2118	4	0	0	4	2.0			50
11	Value Education	VALU0109	2	0	0	2	2.0	25	50	75
		Total	24	0	16	40	30			825

**Faculty of Physical Sciences
Department of Physics**

**B. Sc. (Hons.) Physics
Semester: V**

SNO	COURSE TITLE		COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
				L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Quantum Mechanics & Applications		PHYS3101	4	0	0	4	4.0	40	60	100
2	Quantum Mechanics & Applications Lab		PHYS3102	0	0	4	4	2.0	15	35	50
3	Solid State Physics		PHYS3103	4	0	0	4	4.0	40	60	100
4	Solid State Physics Lab		PHYS3104	0	0	4	4	2.0	15	35	50
5	DSE-I*	Com. Syst + Lab	PHYS3205	4	0	0	4	4.0	40	60	100
			PHYS3206	0	0	4	4	2.0	15	35	50
		Classical Dynamics	PHYS3201	4	2	0	6	6.0	50	100	150
6	DSE-II*	Embedded Syst+Lab	PHYS3207	4	0	0	4	4.0	40	60	100
			PHYS3208	0	0	4	4	2.0	15	35	50
		Astro-Phys	PHYS3202	4	2	0	6	6.0	50	100	150
7	Professional Communication-I		VALU0123	2	0	0	2	2.0	25	50	75
8	Aptitude-I		VALU0119	2	0	0	2	2.0	25	50	75
9	Major Project (Part-I)		PHYS3109	4	0	0	4	4.0	40	60	100
			Total	24	0	16	40	32			850

*For DSE-I and DSE-II choose one from two given options

**Faculty of Physical Sciences
Department of Physics**

**B. Sc. (Hons.) Physics
Semester: VI**

SNO	COURSE TITLE		COURSE CODE	TEACHING SCHEDULE PERWEEK				CREDITS	EVALUATION SCHEME		
				L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Electro-magnetic Theory		PHYS3107	4	0	0	4	4.0	40	60	100
2	Electro-magnetic theory Lab		PHYS3108	0	0	4	4	2.0	15	35	50
3	Statistical Mech.		PHYS3105	4	0	0	4	4.0	40	60	100
4	Statistical Mech. Lab		PHYS3106	0	0	4	4	2.0	15	35	50
5	DSE-III*	Digital Syst. & Design+ Lab	PHYS3209	4	0	0	4	4.0	40	60	100
			PHYS3210	0	0	4	4	2.0	15	35	50
		Plasma Physics	PHYS3203	4	2	0	6	6.0	50	100	150
6	DSE-IV*	Physics of Devices+ Lab	PHYS3211	4	0	0	4	4.0	40	60	100
			PHYS3212	0	0	4	4	2.0	15	35	50
		Fundamentals of Photonics	PHYS3204	4	2	0	6	6.0	50	100	150
7	Professional Communication-II		VALU0140	2	0	0	2	2.0	25	50	75
8	Aptitude-II		VALU0136	2	0	0	2	2.0	25	50	75
9	Major Project (Part-II)		PHYS3110	4	0	0	4	4.0	40	60	100
			Total	24	0	16	40	32			850

*For DSE-III and DSE-IV choose one from two given options