Department of Physics

Study and Evaluation Scheme of Examination: B.Sc. Honours in Physics / B.Sc. Honours with Research in Physics

As per NEP-2020 Guidelines **w.e.f. Session 2024-25**

First Year: Certificate in Physics (1st Semester)

S. No.	Course Code	Course Title	Type of Paper	Periods Per Week			Evaluation Scheme				Subject Total	Credit	Total Credit	Attributes							SDG
							CIE			UE											
				L	T	P	CT	TA	CIE Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values	Professional Ethics	
THEORY																					
1	B010101T/ PY113	Mathematical Physics and Newtonian Mechanics	Major	5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
2	**B010304T / PY119**	**Renewable Energy and Energy Harvesting**	Major	5	1	0	15	10	25	75	100	4:0:0	4	✓		✓		✓			
3	A050101T/ HM101	Rashtra Gaurav	Audit Course	2	0	0	--	--	--	100	100	0:0:0	0						✓		
4	I010101V/ PY117	Electrician	Minor (Vocational)	2	1	0	--	--	--	100	100	3:0:0	3	✓		✓					
5	Z010101T/ BE105	Food, Nutrition and Hygiene	Minor (Co-Curricular)	2	0	0	15	10	25	75	100	2:0:0	2	✓	✓	✓		✓	✓	✓	
PRACTICAL																					
6	B010102P/ PY114	Mechanical Properties of Matter	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
7	B010104P / PY120	**Solar Energy Lab**	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
			Total	**16**	**3**	**8**	**75**	**50**	**125**	**575**	**700**	**17**	**17**								

Department of Physics

Study and Evaluation Scheme of Examination: B.Sc. Honours in Physics / B.Sc. Honours with Research in Physics

As per NEP-2020 Guidelines **w.e.f. Session 2024-25**

First Year: Certificate in Physics (2nd Semester)

S. No.	Course Code	Course Title	Type of Paper	Periods Per Week			Evaluation Scheme				Subject Total	Credit	Total Credit	Attributes							SDG
							CIE			UE											
				L	T	P	CT	TA	CIE Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values	Professional Ethics	
THEORY																					
1	B010201T/ PY115	Thermal Physics and Semiconductor Devices	Major	5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
2	**B010204T/ PY122**	**Basics of Astrophysics and Cosmology**	Major	5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
3	(a) B030201T/ MT138 OR (b) B020201T/ CH139 + B020202P/ CH141 OR (c) B070201T/ CS129 + B070202P/ CS130	Choose anyone from following (a) Matrices and Differential Equations & Geometry (T-6) (b) Bioorganic and Materials Chemistry (T-4) + Biochemical Analysis (P-2) (c) Database Management Systems (T-4) + Database Management Systems Lab (P-2)	Minor (T + P)	5	1	0	15	10	25	75	100	6:0:0	6	✓		✓					
4	B010205/ PY118	Artificial Intelligence and Physics	Audit Course	2	0	0	--	--	--	100	100	0:0:0	0	✓		✓					
5	I010201V/ ME161	Refrigeration and Air-conditioning	Minor (Vocational)	2	1	0	--	--	--	100	100	3:0:0	3	✓	✓	✓					
6	Z020201T/ NS110	First Aid and Health	Minor (Co-Curricular)	2	0	0	15	10	25	75	100	2:0:0	2	✓		✓		✓	✓		
PRACTICAL																					
7	B010202P/ PY116	Thermal Properties of Matter and Electronic Circuits-1	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
8	**B010203P/ PY121**	**Thermal Properties of Matter and Electronic Circuits-2**	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
			Total	**21**	**4**	**8**	**90**	**60**	**150**	**650**	**800**	**23**	**23**								