






Certificate in Science (Physics and Major 2)
Year: First / Semester: Second (Even 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-1	5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
2	B030201T/ MT138	Matrices and Differential Equations and Geometry	Major-2*	5	1	0	15	10	25	75	100	6:0:0	6	✓		✓					
3	B020201T/ CH141	Bio organic and Medicinal Chemistry		5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
4	B070201T/ CS129	Database Management Systems		5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
5	B140201T/ EC133	Semiconductor Devices and Electronic Circuits		5	1	0	15	10	25	75	100	4:0:0	4	✓		✓					
6	B150210T/ ES143/ ME131	Environmental Education and Sustainable Management / Fundamentals of Mechanical Engineering	Minor (Elective)	5	1	0	15	10	25	75	100	6:0:0	6	✓		✓		✓	✓		
7	I010201V/ ME161	Refrigeration and Air-conditioning	Minor (Vocational)	2	1	0	--	--	--	100	100	3:0:0	3	✓	✓	✓					
8	Z020201/ NS110	First Aid and Health	Minor (Co-Curricular)	2	0	0	15	10	25	75	100	2:0:0	2	✓		✓		✓	✓		
9	B010205/ PY118	Artificial Intelligence and Physics	Audit Course	2	0	0	--	--	--	100	100	0:0:0	0	✓		✓					
PRACTICAL																					
10	B010202P/ PY116	Thermal Properties of Matter and Electronic Circuits	Major-1	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
11	B020202P/ CH141	Biochemical Analysis	Major-2*	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
12	B070202P/ CS130	Database Management Systems Lab		0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
13	B140202P/ EC134	Semiconductor devices and Circuits Lab		0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
Total				21	4	8	90	60	150	650	800	23	23								