



Certificate in Science (Physics, Mathematics & Electronics)

Year: First / Semester: First (Odd Semester)

S. No.	Course Code	Course Title	Type of Paper	Periods Per Week			Evaluation Scheme				Subject Total	Credit	Total Credit	Attributes							SDG
				L	T	P	CIE			UE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values	Professional Ethics	
							CT	TA	CIE Total	ESE											
THEORY																					
1	B010101T/ PY113	Mathematical Physics and Newtonian Mechanics	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
2	B030101T/ MT136	Differential Calculus and Integral Calculus	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
3	B140101T/ EC131	Basic Circuit Theory and Network Analysis	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
4	I010101V/ PY117	Electrician	Minor (Vocational)	3	0	0	--	--	--	100	100	3:0:0	3	✓	✓						
5	Z010101T	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	B030102P/ MT137	Practical to be done using Mathematica/MATLAB	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓						
8	B140102P/ EC132	Circuits and Networks Lab	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓	✓					
Total				17	0	12	105	70	175	625	800	23	23								

##-(MCQs only with 0.25 negative Marking)



Integral University, Lucknow
Department of Physics

Study and Evaluation Scheme of Under Graduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2022-23

Certificate in Science (Physics, Mathematics & Electronics)

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				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values		Professional Ethics
				L	T	P	CT	TA	CIE Total	ESE											
THEORY																					
1	B010201T/ PY115	Thermal Physics and Semiconductor Devices	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓		✓					
2	B030201T/ MT138	Matrices and Differential Equations and Geometry	Major	6	0	0	15	10	25	75	100	6:0:0	6	✓		✓					
3	B140201T/ EC133	Semiconductor Devices and Electronic Circuits	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓		✓					
4	B150101T/ EVS125/ ME131	Basics of Environmental Science/ Fundamentals of Mechanical Engineering	Minor (Elective)	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓	✓		✓	✓		
5	I010201V/ MEVC201	Refrigeration and Air-conditioning	Minor (Vocational)	3	0	0	15	10	25	75	100	3:0:0	3	✓		✓					
6	Z020201	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	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
8	B140202P/ EC134	Semiconductor devices and Circuits Lab	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓		✓					
Total				23	0	8	120	80	200	600	800	27	27								

##-(MCQs only with 0.25 negative Marking)