

SCHEME OF TEACHING AND EXAMINATION
B.E. (V SEMESTER) ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No	Subject Code	Subject	Credits	Hours/ Week			Examination Marks		
				L	T	P	CIE	SEE	Total
1	UEI541C	Microcontroller and Peripherals	03	3	-	-	50	50	100
2	UEI542C	Process Control	04	4	-	-	50	50	100
3	UEI543C	Digital Signal Processing	04	4	-	-	50	50	100
4	UEI51XE	Dept. Elective-I	03	3	-	-	50	50	100
5	UEI52XE	Dept. Elective – II	03	3	-	-	50	50	100
6	UHS002N	Advanced Quantitative Aptitude and Soft Skills	01	1	-	-	50	50	100
7	UEI544L	DSP Laboratory	1.5	-	-	3	50	50	100
8	UEI545L	Microcontroller Laboratory	1.5	-	-	3	50	50	100
9	UEI546L	Process Control Laboratory	01	-	-	2	50	50	100
Total			22	18	00	08	450	450	900

Note: Students need to register and earn three credits from BoS approved online course (NPTEL/MOOC or equivalent) before the completion of B.E. program.

Group I

Subject Code	Title	Subject Code	Title
UEI511E	Analytical Instrumentation	UEI512E	Communication Systems
UEI513E	Python Programming	UEI514E	Robotics

Group II

Subject Code	Title	Subject Code	Title
UEI521E	Pneumatics and Hydraulic Instrumentation	UEI522E	Automotive Electronics
UEI523E	Object Oriented Programming with C++	UEI524E	Renewable Energy

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Sl. No	Subject Code	Subject	Credits	Hours/ Week			Examination Marks		
				L	T	P	CIE	SEE	Total
1	UEI641C	Medical Instrumentation	03	3	-	-	50	50	100
2	UEI642C	Control Systems	04	4	-	-	50	50	100
3	UEI643C	ARM Processor	03	3	-	-	50	50	100
4	UEI61XE	Dept. Elective-III	03	3	-	-	50	50	100
5	UHS003N	Career Planning and Professional Skills	01	1	-	-	50	50	100
6	UXXXXXN	Open Elective-I	03	3	-	-	50	50	100
7	UEI644L	ARM Processor Laboratory	01	-	-	2	50	50	100
8	UCS659L	Advanced C Programming	02	-	2	2	50	50	100
9	UEI645P	Mini Project	03	-	-	6	50	50	100
Total			23	16	04	10	450	450	900

Note: 1. Students need to register and earn three credits from BoS approved online course (NPTEL/MOOC or equivalent) before the completion of B.E. program.

2. Evaluation of Mini Project is as per the rubrics of BEC Exam Reforms Policy - 2020.

Open Elective-I: UEI646N: Virtual Instrumentation (For students of other departments)

Group III

Subject Code	Title	Subject Code	Title
UEI611E	Intelligent Instrumentation	UEI612E	Micro Electro Mechanical Systems
UEI613E	Computer Networks and Security	UEI614E	Digital Image Processing

