

*Scheme of UG Degree course in Electrical and Computer Engineering (ECO)
w.e.f session 2023-24 onwards*

KURUKSHETRA UNIVERSITY, KURUKSHETRA
(ESTABLISHED BY THE STATE LEGISLATURE ACT XII OF 1956)
(‘A+’ GRADE NAAC ACCREDITED)



**Scheme & Syllabus
of
B.Tech. Degree
in
Electrical and Computer
Engineering (ECO)**



(w.e.f. session 2023-24 onwards)

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GENERAL COURSE STRUCTURE

&

CREDIT DISTRIBUTION

GENERAL COURSE STRUCTURE & THEME

A. Definition of Credit*:

1Hr. Lecture(L) per week	1Credit
1Hr.Tutorial(T)per week	1Credit
1Hr.Practical(P)per week	0.5Credit
2HoursPractical(P)per week	1Credit

*Except for the Manufacturing process workshop, mandatory and value-added courses

B. Range of Credits: The total number of credits proposed for the four-year B.Tech. degree in Electrical and Computer Engineering (ECO) is kept as 175. In addition, for a B.Tech. with Honors & specialization/minor degree, the student must acquire an additional 18-20 credits through MOOC courses offered at the SWAYAM/NPTEL portal.

C. Structure of UG Program in Electrical and Computer Engineering (ECO):The structure of UG program in Electrical and Computer Engineering (ECO) has essentially the following categories of courses with the breakup of credits as given:

Sr. No.	Category	Credit Breakup for CSE
1	Humanities and Social Sciences including Management courses	16.5
2	Basic Science courses	24
3	Engineering Science courses including workshop, drawing, basics of electronics/ electrical/mechanical/computer etc.	13.5
4	Professional core courses	78
5	Program Elective courses relevant to chosen specialization/branch	15
6	Open subjects–Electives from other technical and/or emerging subjects	03
7	Project work, seminar and internship in industry or else where	17
8	Mandatory and Audit Courses [IDEA Workshop, IDEA Workshop Lab, Personality Development and Soft Skills, Environmental Studies, Induction Program, Constitution of India, Essence of Indian Knowledge Tradition, NCC/NSS/Sports/ Yoga/ Technical or Cultural Club/ Society Activities]	08
	Total	175

D. Course code and definition:

Course code	Definitions
L:T:P	Lecture: Tutorial: Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSC/HSM	Humanities and Social Sciences including Management courses
ECO	Program Core Courses
EEP	Program Elective Courses
EEO	Open Elective Courses
VAC	Value Added Courses
MAC	Mandatory Courses

➤ Category-wise Courses

HUMANITIES & SOCIAL SCIENCES COURSES [HSC/HSM]

S.No	Course No./ Code	Subject	Semester	Hrs/week			Credits
				Lecture	Tutorial	Practical	
1	B23-HSC-101	English for Technical Writing	II	2	0	2	3
2	B23-HSC-102	Design Thinking	I	0	0	3	1.5
3	B23-HSM-101	Universal Human Values-II: Understanding Harmony And Ethical Human Conduct	I	3	0	0	3
4	B23-HSM-202	Innovation, Start ups and Entrepreneurship	V	3	0	0	3
5	B23-HSM-201	Organizational Behaviour	III	3	0	0	3
6	B23-HSM-302	Humanities–II Intellectual Property Rights (IPR) and Regulatory	IV	3	0	0	3
Total Credits							16.5

BASIC SCIENCE COURSES [BSC]

S. No	Course No./ Code	Subject	Semester	Hrs/week			Credits
				Lecture	Tutorial	Practical	
1	B23-BSC-101	Semiconductor Physics	I	3	1	2	5
2	B23-BSC-107	Mathematics-I	I	3	1	0	4
3	B23-BSC-104	Engineering Chemistry	II	3	0	2	4
4	B23-BSC-108	Mathematics-II	II	3	1	0	4
5	B23-BSC-106	Biology	II	3	0	0	3
6	B23-BSC-203	Mathematics-III	IV	3	1	0	4
Total Credits							24

ENGINEERING SCIENCE COURSE[ESC]

S. No	Course No./ Code	Subject	Semester	Hrs/week			Credits
				Lecture	Tutorial	Practical	
1	B23-ESC-102	Engineering Graphics and Design	I	1	0	4	3
2	B23-ESC-104	Basic Electrical Engineering	I	3	1	2	5
3	B23-ESC-101	Programming for Problem Solving	II	3	0	2	4
4	B23-ESC-107	Manufacturing Practices Workshop	II	0	0	3	1.5
Total Credits							13.5

PROGRAM CORE COURSES [ECO]

S. No.	Course No./ Code	Subject	Semester	Hrs/Week	Credits
				L:T:P	
1	B23-ECO-201	Analog and Digital Electronics	III	3:0:2	4
2	B23-ECO-203	Computer Organization and Architecture	III	3:0:0	3
3	B23-ECO-205	Data Structure and Algorithms	III	3:0:2	4
4	B23-ECO-207	Electrical Machine-I	III	3:0:2	4
5	B23-ECO-209	Electric Power Generation	III	3:0:0	3
6	B23-ECO-202	Electrical Measurement and Instrumentation	IV	3:0:2	4
7	B23-ECO-204	Electrical Machine-II	IV	3:0:2	4
8	B23-ECO-206	Network Analysis and Synthesis	IV	4:0:0	4
9	B23-ECO-208	Object Oriented Programming	IV	3:0:2	4
10	B23-ECO-301	Control System	V	3:0:2	4
11	B23-ECO-303	Data Base Management System	V	3:0:2	4
12	B23-ECO-305	Electromagnetic Theory	V	3:0:0	3
13	B23-ECO-307	Operating System	V	3:0:0	3
14	B23-ECO-309	Power System-I	V	3:0:2	4
15	B23-ECO-302	Renewable Energy Resources	VI	3:0:0	3
16	B23-ECO-304	Power System-II	VI	3:0:2	4
17	B23-ECO-306	Python Programming	VI	3:0:2	4
18	B23-ECO-308	Signals and Systems	VI	3:0:2	4
19	B23-ECO-401	AIML	VII	3:0:2	4
20	B23-ECO-403	Big Data Analytics	VII	3:0:2	4
21	B23-ECO-405	Power System Protection and Relaying	VII	3:0:0	3
Total					78

SKILL ENHANCEMENT BASED PROJECT WORK, SEMINAR AND INTERNSHIP

S. No.	Course No./ Code	Subject	Semester	Hrs/Week	Credits
				L:T:P	
1	B23-ECO-316	Project-I	VI	0:0:4	2
2	B23-ECO-411	Project-II	VII	0:0:6	3
3	B23-ECO-402	Project-III	VIII	0:0:24	10
4	B23-ECO-317	Industrial Training-I	V	0:0:2	1
5	B23-ECO-413	Industrial Training-II	VII	0:0:2	1
Total					17

LIST OF PROGRAMME ELECTIVE COURSES [EEP]

S. No.	Course No./ Code	Subject	Semester	Hrs/Week	Credits
				L:T:P	
1	B23-EEP-302	Power Electronics and Drives	VI	3:0:0	3
2	B23-EEP-304	Transducer and Sensors	VI	3:0:0	3
3	B23-EEP-306	Soft Computing	VI	3:0:0	3
4	B23-EEP-308	Software Engineering	VI	3:0:0	3
5	B23-EEP-310	High Voltage Engineering and Facts Devices	VI	3:0:0	3
6	B23-EEP-312	Computer Added Power System Analysis	VI	3:0:0	3
7	B23-EEP-314	Internet Technology and Management	VI	3:0:0	3
8	B23-EEP-316	Computer Network	VI	3:0:0	3
9	B23-EEP-401	Digital Signal Processing	VII	3:0:0	3
10	B23-EEP-403	Microprocessor and Microcontroller	VII	3:0:0	3
11	B23-EEP-405	Industrial Automation	VII	3:0:0	3
12	B23-EEP-407	Software Verification, Validation and Testing	VII	3:0:0	3
13	B23-EEP-402	Electric Vehicle Technology	VIII	3:0:0	3
14	B23-EEP-404	Power System Restructuring and Deregulation	VIII	3:0:0	3
15	B23-EEP-406	Robotics and Automation	VIII	3:0:0	3
16	B23-EEP-408	Block Chain Technology	VIII	3:0:0	3
17	B23-EEP-410	Energy Audit and Conservation	VIII	3:0:0	3
18	B23-EEP-412	Smart Grid	VIII	3:0:0	3
19	B23-EEP-414	Data Mining	VIII	3:0:0	3
20	B23-EEP-416	Mobile App Development	VIII	3:0:0	3

LIST OF OPEN ELECTIVE COURSES [EEO]

S. No.	Course No./ Code	Subject	Semester	Hrs/Week	Credits
				L:T:P	
1	B23-EEO-401	Biomedical Signal Processing	VII	3:0:0	3
2	B23-EEO-403	International and Corporate Law	VII	3:0:0	3
3	B23-EEO-405	Internet of Things	VII	3:0:0	3
4	B23-EEO-407	Digital Image Processing	VII	3:0:0	3

VALUE ADDED AND MANDATORY COURSES [VAC/MAC]

S. No.	Course No./ Code	Subject	Semester	Hrs/Week	Credits
				L:T:P	
1	B23-VAC-101	Personality Development and Soft Skills	II	2:0:0	1
2	B23-VAC-110	IDEA Workshop	I	2:0:0	1
3	B23-VAC-112	IDEA Project Workshop	I	0:0:2	1
4	B23-VAC-302/304/306/308/310	Hindi Language Skills/ Sanskrit Language Skills/ German Language Skills/ Japanese Language Skills/ French Language Skills	V	2:0:0	1
5	B23-VAC-401/403/405/407/409/411	NCC/NSS/Sports/ Yoga/ Technical or Cultural Club/Society activities	VII	0:0:2	1
6	B23-MAC-201	Environmental Studies	IV	3:0:0	1
7	B23-MAC-202	Essence of Indian Traditional Knowledge	III	2:0:0	1
8	B23-MAC-301	Constitution of India	VI	2:0:0	1
Total					8

SEMESTER WISE STRUCTURE

B.Tech. Electrical and Computer Engineering (ECO)
KURUKSHETRA UNIVERSITY, KURUKSHETRA

SEMESTER I

(w.e.f. 2023-24)

S.No.	Course No./Code	Subject	L:T:P	Hours/ Week	Credits	Examination Schedule (Marks)				Duration of Exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	B23-BSC-101	Semiconductor Physics	3:1:0	4	4	70	30	--	100	3
2	B23-HSM-101	Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	3:0:0	3	3	70	30	--	100	3
3	B23-ESC-102	Engineering Graphics and Design	1:0:0	1	1	70	30	--	100	3
4	B23-ESC-104	Basic Electrical Engineering	3:1:0	4	4	70	30	--	100	3
5	B23-BSC-107	Mathematics-I	3:1:0	4	4	70	30	--	100	3
6	B23-BSC-111	Semiconductor Physics Lab	0:0:2	2	1	--	40	60	100	3
7	B23-ESC-106	Engineering Graphics and Design Lab	0:0:4	4	2	--	40	60	100	3
8	B23-ESC-109	Basic Electrical Engineering Lab	0:0:2	2	1	--	40	60	100	3
9	B23-HSC-102	Design Thinking	0:0:3	3	1.5	-	100	--	100	3
10	B23-VAC-110	IDEA Workshop	2:0:0	2	1	--	100	--	100	3
11	B23-VAC-112	IDEA Project Workshop	0:0:2	2	1	--	100	--	100	3
TOTAL				31	23.5	350	570	180	1100	-

Note:

- NCC/NSS/Sports/Yoga/Technical or Cultural Club/society activities will be joined by students in the first year and will be evaluated in the 7th semester by the institute based upon a continuous evaluation model as per guidelines.

B.Tech. Electrical and Computer Engineering (ECO)
KURUKSHETRA UNIVERSITY, KURUKSHETRA

SEMESTER II

(w.e.f. 2023-24)

S.No.	Course No./ Code	Subject	L:T:P	Hours/ Week	Credits	Examination Schedule (Marks)				Duration of Exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	B23-HSC-101	English for Technical Writing	2:0:0	2	2	70	30	--	100	3
2	B23-ESC-101	Programing for Problem Solving	3:0:0	3	3	70	30	--	100	3
3	B23-BSC-104	Engineering Chemistry	3:0:0	3	3	70	30	--	100	3
4	B23-BSC-108	Mathematics-II	3:1:0	4	4	70	30	--	100	3
5	B23-BSC-106	Biology	3:0:0	3	3	70	30	--	100	3
6	B23-HSC-103	English Language Lab	0:0:2	2	1	--	40	60	100	3
7	B23-ESC-105	Programing for Problem Solving Lab	0:0:2	2	1	--	40	60	100	3
8	B23-ESC-107	Manufacturing Processes Workshop	0:0:3	3	1.5	--	40	60	100	3
9	B23-BSC-114	Engineering Chemistry Lab	0:0:2	2	1	--	40	60	100	3
10	B23-VAC-101	Personality Development and Soft Skills	2:0:0	2	1	--	100	--	100	3
TOTAL				26	20.5	350	410	240	1000	

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SEMESTER-III

(w.e.f. 2024-25)

S. No.	Course No./ Code	Subject	L:T:P	Hours/ Week	Credits	Examination Schedule (Marks)				Duration of exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	B23-ECO-201	Analog and Digital Electronics	3:0:0	3	3	70	30	--	100	3
2	B23- ECO -203	Computer Organization and Architecture	3:0:0	3	3	70	30	--	100	3
3	B23-ECO-205	Data Structure and Algorithms	3:0:0	3	3	70	30	--	100	3
4	B23-ECO-207	Electrical Machine-I	3:0:0	3	3	70	30	--	100	3
5	B23-ECO-209	Electric Power Generation	3:0:0	3	3	70	30	--	100	3
6	B23-HSM-201	Organizational Behaviour	3:0:0	3	3	70	30	--	100	3
7	B23-ECO-211	Analog and Digital Electronics Lab	0:0:2	2	1	--	40	60	100	3
8	B23-ECO-213	Data Structure and Algorithms Lab	0:0:2	2	1	--	40	60	100	3
9	B23-ECO-215	Electrical Machine Lab-I	0:0:2	2	1	--	40	60	100	3
10	B23-MAC-202	Essence of Indian Traditional Knowledge	2:0:0	2	1	--	100	--	100	3
TOTAL				26	22	420	400	180	1000	

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SEMESTER-IV

(w.e.f. 2024-25)

S. No.	Course No./ Code	Subject	L:T:P	Hours/ Week	Credits	Examination Schedule (Marks)				Duration of Exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	B23-BSC-203	Mathematics-III	3:1:0	4	4	70	30	--	100	3
2	B23-ECO-202	Electrical Measurement and Instrumentation	3:0:0	3	3	70	30	--	100	3
3	B23-ECO-204	Electrical Machine-II	3:0:0	3	3	70	30	--	100	3
4	B23-ECO-206	Network Analysis and Synthesis	4:0:0	4	4	70	30	--	100	4
6	B23-ECO-208	Object Oriented Programming	3:0:0	3	3	70	30	--	100	3
7	B23-HSM-302	Intellectual Property Rights (IPR) and Regulatory	3:0:0	3	3	70	30	--	100	3
8	B23-ECO-210	Electrical Measurement and Instrumentation Lab	0:0:2	2	1	--	40	60	100	3
9	B23-ECO-212	Electrical Machine Lab-II	0:0:2	2	1	--	40	60	100	3
10	B23-ECO-214	Object Oriented Programming Lab	0:0:2	2	1	--	40	60	100	3
11	B23-MAC-201	Environmental Studies	3:0:0	3	1	70	30	--	100	3
TOTAL				29	24	490	330	180	1000	

Note:

- All students have to undertake the industrial training for 4 to 6 weeks after the 4th semester, which will be evaluated in the 5th semester.

B.Tech. Electrical and Computer Engineering (ECO)
KURUKSHETRA UNIVERSITY, KURUKSHETRA

SEMESTER-V

S. No.	Course No./ Code	Subject	L:T:P	Hours/ Week	Credits	Examination Schedule (Marks)				Duration of exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	B23-ECO-301	Control System	3:0:0	3	3	70	30	--	100	3
2	B23-ECO-303	Data Base Management System	3:0:0	3	3	70	30	--	100	3
3	B23-ECO-305	Electromagnetic Theory	3:0:0	3	3	70	30	--	100	3
4	B23-ECO-307	Operating System	3:0:0	3	3	70	30	--	100	3
5	B23-ECO-309	Power System-I	3:0:0	3	3	70	30	--	100	3
6	B23-HSM-202	Innovation, Startups and Entrepreneurship	3:0:0	3	3	70	30	--	100	3
7	B23-ECO-311	Control System Lab	0:0:2	2	1	--	40	60	100	3
8	B23-ECO-313	DBMS Lab	0:0:2	2	1	--	40	60	100	3
9	B23-ECO-315	Power System-I lab	0:0:2	2	1	--	40	60	100	3
10	B23-ECO-317	Industrial Training-I	0:0:2	2	1	--	100	--	100	3
11	B23-VAC-302/304/306/308/310	Hindi Language Skills/ Sanskrit Language Skills/ German Language Skills/ Japanese Language Skills/ French Language Skills	2:0:0	2	1	--	100	--	100	3
TOTAL				28	23	420	500	180	1100	

B.Tech. Electrical and Computer Engineering (ECO)
KURUKSHETRA UNIVERSITY, KURUKSHETRA
SEMESTER-VI

S. No.	Course No./ Code	Subject	L:T:P	Hours/ Week	Credits	Examination Schedule (Marks)				Duration of Exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	B23-ECO-302	Renewable Energy Resources	3:0:0	3	3	70	30	--	100	3
2	B23-ECO-304	Power System-II	3:0:0	3	3	70	30	--	100	3
3	B23-ECO-306	Python Programming	3:0:0	3	3	70	30	--	100	3
4	B23-ECO-308	Signals and Systems	3:0:0	3	3	70	30	--	100	3
5	--	Program Elective-I	3:0:0	3	3	70	30	--	100	3
6	--	Program Elective-II	3:0:0	3	3	70	30	--	100	3
7	B23-ECO-310	Power System-II Lab	0:0:2	2	1	--	40	60	100	3
8	B23-ECO-312	Python Programming Lab	0:0:2	2	1	--	40	60	100	3
9	B23-ECO-314	Signals and Systems Lab	0:0:2	2	1	--	40	60	100	3
10	B23-ECO-316	Project-I	0:0:4	4	2	--	100	--	100	3
11	B23-MAC-301	Constitution of India	2:0:0	2	1	--	100	--	100	3
TOTAL				30	24	420	500	180	1100	

Note:

- The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section.
- All students have to undertake the industrial training for 6 to 8 weeks after the 6th semester, which will be evaluated in the 7th semester.

Program Elective-I		Program Elective-II	
B23-EEP-302	Power Electronics and Drives	B23-EEP-310	High Voltage Engineering and Facts Devices
B23-EEP-304	Transducer and Sensors	B23-EEP-312	Computer Added Power System Analysis
B23-EEP-306	Soft Computing	B23-EEP-314	Internet Technology and Management
B23-EEP-308	Software Engineering	B23-EEP-316	Computer Network

B.Tech. Electrical and Computer Engineering (ECO)
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SEMESTER-VII

S. No.	Course No./ Code	Subject	L:T:P	Hours / Week	Credits	Examination Schedule (Marks)				Duration of Exam (Hours)
						End Semester	Internal Assessment	Practical Exam	Total	
1	B23-ECO-401	AIML	3:0:0	3	3	70	30	--	100	3
2	B23-ECO-403	Big Data Analytics	3:0:0	3	3	70	30	--	100	3
3	B23-ECO-405	Power System Protection and Relaying	3:0:0	3	3	70	30	--	100	3
4	--	Program Elective-III	3:0:0	3	3	70	30	--	100	3
5	--	Open Elective-I	3:0:0	3	3	70	30	--	100	3
6	B23-ECO-407	Data Analytics Lab	0:0:2	2	1	--	40	60	100	3
7	B23-ECO-409	AIML Lab	0:0:2	2	1	--	40	60	100	3
8	B23-ECO-411	Project-II	0:0:6	6	3	--	40	60	100	3
9	B23-ECO-413	Industrial Training-II	0:0:2	2	1	--	100	--	100	3
10	B23-VAC-401/403/405/407/409/411	NCC/NSS/Sports/ Yoga/ Technical or Cultural Club/Society activities	0:0:2	2	1	--	100	--	100	--
TOTAL				29	22	350	470	180	1000	

Note:

- The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section.
- B23-VAC-401/403/405/407/409/411 are single credit value added courses in which NCC/NSS/Sports/Yoga/Technical or Cultural Club/Society activities will be joined by students in first year and will be evaluated in 7th semester by the institute based upon continuous evaluation model as per guidelines.

Program Elective-III		Open Elective-I	
B23-EEP-401	Digital Signal Processing	B23-EEO-401	Biomedical Signal Processing
B23-EEP-403	Microprocessor and Microcontroller	B23-EEO-403	International and Corporate Law
B23-EEP-405	Industrial Automation	B23-EEO-405	Internet of Things
B23-EEP-407	Software Verification, Validation and Testing	B23-EEO-407	Digital Image Processing

B.Tech. Electrical and Computer Engineering (ECO)
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SEMESTER-VIII

S. No.	Course No./Code	Subject	L:T:P	Hours / Week	Credits	Examination Schedule (Marks)				Duration of Exam (Hours)
						End Semester Exam	Internal Assessment	Practical Exam	Total	
1	--	Program Elective-IV	3:0:0	3	3	70	30	--	100	3
2	--	Program Elective-V	3:0:0	3	3	70	30	--	100	3
3	B23-ECO-402	Project-III / Industrial Project/ Research Lab/ /Start ups / Entrepreneurship	0:0:20	20	10	--	200	200	400	3
TOTAL				26	16	140	260	200	600	

Note:

- The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section.
- In case of semester-long project work done in industry/external institute, the Program Elective- IV and Open Elective-IV may be offered in online mode through MOOC courses offered by SWAYAM/NPTEL portal. These courses may be done from 3rd semester till completion of the degree.

Program Elective -IV		Program Elective -V	
B23-EEP-402	Electric Vehicle Technology	B23-EEP-410	Energy Audit and Conservation
B23-EEP-404	Power System Restructuring and Deregulation	B23-EEP-412	Smart Grid
B23-EEP-406	Robotics and Automation	B23-EEP-414	Data Mining
B23-EEP-408	Block Chain Technology	B23-EEP-416	Mobile App Development

B.Tech. Electrical and Computer Engineering (ECO) **KURUKSHETRA UNIVERSITY, KURUKSHETRA**

Students of Electrical and Computer Engineering are offered to earn **ADDITIONAL 18-20 CREDITS** through MOOCs/SWAYAM courses as per the 'Guidelines to implement the SWAYAM/MOOCs/ other authorized online courses (OAOC) of Kurukshetra University, Kurukshetra' in any of the emerging areas mentioned below for the award of the degree of:

1. B.Tech. (Hons.) Electrical and Computer Engineering with Specialization in Electric Vehicles
2. B.Tech. (Hons.) Electrical and Computer Engineering with Specialization in Energy Engineering
3. B.Tech. (Hons.) Electrical and Computer Engineering with Specialization in Artificial Intelligence and Machine Learning
4. B.Tech. (Hons.) Electrical and Computer Engineering with Specialization in Data Science
5. B.Tech. Electrical and Computer Engineering with a Minor Degree in Mechatronics
6. B.Tech. Electrical and Computer Engineering with a Minor Degree in VLSI Design
7. B.Tech. Electrical and Computer Engineering with a Minor Degree in Internet of Things (IoT)
8. B.Tech. Electrical and Computer Engineering with a Minor Degree in Cyber Security