

Course Structure & Evaluation Scheme

School of Engineering & Technology
Department of Electrical Engineering
B.Tech EE (IOT)
[Academic Session 2020-21]



UNITED UNIVERSITY,
PRAYAGRAJ

**School of Engineering & Technology 1 Year (1 & 2 Semester)
Degree Programme United University, Prayagraj Course
Structure & Evaluation Scheme 2020-2021 Session**

Department of Electrical Engineering

IOT					
Semester-1					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Mathematics I	3	1	0	4
2	Introduction to Programming Language/Communication for professional	3	0	0	3
3	Engg. Physics/ Engg. Chemistry	3	0	0	3
4	Basic Electrical & Electronics Engineering/Introduction to IOT	3	1	0	4
5	Physics Laboratory/Chemistry Laboratory	0	0	2	1
6	Electrical & Electronics Laboratory/ Fundamental IOT-Laboratory	0	0	2	1
7	Computer Programming/Communication Laboratory	0	0	2	1
8	Engineering Drawing and Graphics/ Engineering Workshop	0	0	3	1
9	Personality development Activity	2	0	0	1
		14	2	9	19
Semester-2					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Mathematics – II	3	1	0	4
2	Introduction to Programming Language/Communication for professional	3	0	0	3
3	Engg. Physics/ Engg. Chemistry	3	0	0	3
4	Basic Electrical & Electronics Engineering/Introduction to IOT	3	1	0	4
5	Physics Laboratory/Chemistry Laboratory	0	0	2	1
6	Electrical & Electronics Laboratory/ Fundamental IOT-Laboratory	0	0	2	1
7	Computer Programming/Communication Laboratory	0	0	2	1
8	Engineering Drawing and Graphics/ Engineering Workshop	0	0	3	1
9	Personality development Activity	2	0	0	1
		14	2	9	19

**School of Engineering & Technology 2 Year (3 & 4 Semester)
Degree Programme United University, Prayagraj Course
Structure & Evaluation Scheme 2020-2021 Session**

Department of Electrical Engineering

Semester-3					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Mathematics – III	3	1	0	4
2	Signals and Systems	3	0	0	3
3	Analog & Digital Electronics	3	0	0	3
4	Electrical and Electronics Measurements and Instrumentation	3	1	0	4
5	Sensor Technology	3	0	0	3
6	Signals and Systems-Laboratory	0	0	2	1
7	Sensor Technology and Instrumentation-Laboratory	0	0	2	1
8	MATLAB & Simulink-Laboratory	0	0	2	1
9	Digital Electronics-Laboratory	0	0	2	1
10	Quantitative Analysis/Verbal Ability	2	0	0	1
		17	2	8	22
Semester-4					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Departmental Elective-1	3	1	0	4
2	Electric Machine-1	3	0	0	3
3	Circuit Analysis and Synthesis	3	0	0	3
4	Fundamentals of Microprocessors and Microcontrollers	3	1	0	4
5	IoT for Industries (Use Case Scenarios)	3	0	0	3
6	Electric Machine-1-Laboratory	0	0	2	1
7	Circuit Analysis and Synthesis-Laboratory	0	0	2	1
8	Microprocessors and Microcontrollers-Laboratory	0	0	2	1
9	Innovation And Prototype-Laboratory	0	0	2	1
10	Quantitative Analysis/Verbal Ability	2	0	0	1
		17	2	8	22

**School of Engineering & Technology 3 Year (5 & 6 Semester)
Degree Programme United University, Prayagraj Course
Structure & Evaluation Scheme 2020-2021 Session**

Department of Electrical Engineering

Semester-5					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Hands on Adriano/Raspberry pi	3	0	0	3
2	Electric Machine-2	3	1	0	4
3	Control System Engineering	3	0	0	3
4	Fundamentals of Power System	3	1	0	4
5	Departmental Elective-2	3	0	0	3
6	IoT in Retail Management	3	0	0	3
7	Hands on Arduino-Laboratory	0	0	2	1
8	Electric Machine-2-Laboratory	0	0	2	1
9	Control System Engineering-Laboratory	0	0	2	1
10	Technical Application of Software Knowledge-1	0	0	2	1
11	Quantitative Analysis/Verbal Ability	2	0	0	1
		20	2	8	25
Semester-6					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Power Electronics	3	1	0	4
2	Power System Analysis	3	1	0	4
3	Dynamic Paradigm in Internet of Things	3	0	0	3
4	Departmental Elective-3	3	0	0	3
5	Human Values	3	0	0	3
6	Finance Management	3	0	0	3
7	Power Electronics-Laboratory	0	0	2	1
8	Dynamic Paradigm in Internet of Things-Laboratory	0	0	2	1
9	Seminar Presentation-1	0	0	2	1
10	Technical Application of Software Knowledge-2	0	0	2	1
11	Quantitative Analysis/Verbal Ability	2	0	0	1
		20	2	8	25

**School of Engineering & Technology 4 Year (7 & 8 Semester)
Degree Programme United University, Prayagraj Course
Structure & Evaluation Scheme 2020-2021 Session**

Department of Electrical Engineering

Semester-7					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial(T)	Practical (P)	Credit
1	Embedded Technology for IoT	3	1	0	4
2	Research Methodology	3	0	0	3
3	Power System Protection	3	1	0	4
4	Departmental Elective-4	3	0	0	3
5	Electric Drive & Power System-Laboratory	0	0	2	1
6	Summer Internship Program-SIP	0	0	2	1
7	Seminar Presentation-2	0	0	4	2
8	Minor Project	0	0	10	5
9	Technical Application of Software Knowledge-3	0	0	2	1
10	GD/Interview	2	0	0	1
		14	2	20	25
Semester-8					
S.No	Papers-EE-IOT	Lecture (L)	Tutorial (T)	Practical (P)	Credit
1	Introduction to Electric Drive	3	1	0	4
2	Departmental Elective-5	3	0	0	3
3	Departmental Elective-6	3	0	0	3
4	Major Project	0	0	20	10
5	Internship	0	0	8	4
6	Education Achievement Activity	0	0	2	1
		9	1	30	25

Elective Type					
Departmental Elective-1					
	Transportation Design and Development through IOT				
	Automotive Engine Component Design				
	Fuzzy Logic & Neural Network				
	Intelligent Instrumentation				
	IOT for Artificial Intelligence				
Departmental Elective-2					
	Big Data Analysis				
	Wireless Sensor Networks (WSN) & IoT Standards				
	Advanced Communication Engineering				
	Social, Web & Mobile Analytics				
	REALTIME OPERATING SYSTEMS (RTOS) for IOT				
Departmental Elective-3					
	Healthcare Delivery Models & Processes				
	Smarter City				
	Signal Conditioning & Telemetry				
	Data mining and visualization				
	Cloud Architecture and Deployment Models				
Departmental Elective-4					
	IPv6 Analysis and Applications				
	Descriptive Analytics for IOT				
	Machine Learning				
	Database and Network Security				
	Departmental Elective-5				
	Data Communication Networks				
	IT Adoption for Healthcare Operations & Processes				
	Digital Image Processing				
	Departmental Elective-6				
	IoT for Power System				
	Automotive HVAC				
	Digital IC applications				