

	COURSE PLA	N PART- I					
Name of the program and specializationB.Tech. EEE							
Course Title	Introduction to Electric	al and Electro	onics Engineering.				
Course Code	Course Code EEIR15 No. of Credits 02						
Course Code of Pre-requisite subject(s)		NIL					
Session	January 2023	Section	Α				
Name of Faculty	Dr. Josephine R.L	Department	EEE				
<u>Faculty</u> Email	josephinerl@nitt.edu	Telephone No.	0431-2504085				
Name of Course Coordinator(s) (if, applicable)N ACourse typeGeneral Institute Requirement (Branch Specific Course)							
SYLLABUS (ap	proved in BoS)						
5 Y LLABUS (ap	proved in BoS)						
distribution, Powe Basic ideas about saving. Introduction to di signal processing,	er apparatus used in variou utility supply, electrical fferent types of electrical specifications of electroni f curriculum, laboratories	tariff, energy circuits, hous ic components	ver generation, transmission and audit and importance of energy e wiring, electronic circuits for software packages, electronic				
COURSE OBJE							
This course facilities electronics engine	•	comprehensiv	e exposure to electrical and				
MAPPING OF	COs with Pos						
Course Outcom	les		Program Outcomes (PO) (Enter Numbers only)				
insightful knowle	of the course, the students edge on various fundament etronics engineering.	shall develop a tal elements	in 1,2,4,6,7,8,9,10,11,12.				



COURSE PLAN – PART II COURSE TEACHING AND LEARNING ACTIVITIES						
S.No.	Week/Contact Hours	Торіс	Mode of Delivery			
1	Week 1 (2 Lectures) 20 -27 March	Introduction to the course, History,	Chalk and Talk			
2	Week 2 (2 Lectures) 27-31 March	Major inventions, scope, significance, and job opportunities in electrical and electronics engineering,	Chalk and Talk			
3	Week 3 (2 Lectures) 3- 7 April	Brief overview of various energy resources	Chalk and Talk			
4	Week 4 (2 Lectures) 10-14 April	Basics of energy conversion, Power apparatus used in power generation, transmission, and distribution.	Chalk and Talk			
5	Week 5(2 Lectures) 17-21 April	Power apparatus used in various industries.	Chalk and Talk			
6	Week 6 (2 Lectures) 24-28 April	Basic ideas about utility supply electrical tariff, energy audit	Chalk and Talk			
7	Week 7(2 Lectures) 1 - 5 May	Importance of energy saving.	Chalk and Talk			
8	Week 8(2 Lectures) 8- 12 May	Importance of energy saving.	Chalk and Talk			
9	Week 9(3 Lectures) 15-19 May	Introduction to different types ofelectrical circuits, house wiring	Chalk and Talk			



		house wining		Chall	and Talk	
10	We als $10/2$	house wiring		Chail	k and Talk	
10	Week 10(2	(contd.)				
	Lectures)					
	22-26 May				1 T- 11-	
11	W. 1 11/0		Chail	x and Talk		
11	Week 11(2	Electronic circuits for signal processing, specifications of				
	Lectures)					
	29 may-02 June	electronic components.	~			
10		Brief overview of curriculum, laboratories and various softwarepackages		Chall	k and Talk	
12	Week 12(2					
	Lectures)					
	05 -09 June		C			
				Chall	k and Talk	
13	Week 13(2 Lectures)	Electronic testing and				
	12-16 June					
		measuring equipment.				
14				Chai	k and Talk	
14	Week 14(2 Lectures)	Electronic testing and measuring equipment				
	19-23 June					
COU	DOF ACCECOMENT	0 1 1				
COURSE ASSESSMENT METHODS						
S.No	Mode of Assessment	Week/Date	Duration		%	
					Weightage	
1.	Assessment-1	24- 26 April	90 minutes		25	
1.	(Module 1&2)					
	Assessment-2	22-24 May 90 min		utes	25	
2.	(Module 3&4)	, i i i i i i i i i i i i i i i i i i i			25	
	Continuous				20	
3.	Assessment	Assignments/Objective and Subjectiv tests/Quiz		e type	4 0	
	130000110110					
		During regular class hours				
	Compensation	During regular class hours19-23 June90 min				
CPA	Assessment			utes	25	
~	(Module 1,2,3,4)					
4.	Assessment-4	End semester	3 hour	S	30	
	Final Assessment	Exam				
	(All Modules)					
Note:						

Note:

1. Attending all the assessments (i.e., Assessment 1 to 4) are MANDATORY for every student.

2. If any student is not able to attend Assessment-1 / Assessment-2 due to genuine reason, he/she is permitted to attend only one Compensation Assessment (CPA) with



25 marks. Appropriate weightage will be assigned according to the assessment missed by the student.

3. At any case, CPA will not be considered as an improvement test.

Grading the students

- Grading will be based on the clusters (range) of the total marks (all the assessments i.e., Assessment 1 to 4, put together for each student) scored. For grading, Gap theory or Normalized curve method will be used to decide the clusters (range) of the total marks.
- 2. The passing minimum shall be as per the Office of the Dean (Academic) instructions. Hence, every student is expected to score the minimum mark to pass the course as prescribed by the Office of the Dean (Academic). Otherwise, the student would be declared fail and 'F' grade will be awarded.

ESSENTIAL READINGS: Textbooks, reference books Website addresses, journals, etc.

1. Clayton Paul, Syed A Nasar and Louis Unnewehr, 'Introduction to Electrical Engineering', 2ndEdition, McGraw-Hill, 1992.

2. Kothari D.P. & Nagrath I.J., 'Basic Electrical Engineering', 2nd Edition, Tata McGraw-Hill,2001.

3. P.S. Dhogal, 'Basic Electrical Engineering – Vol. I& II', 42nd Reprint, McGraw-Hill, 2012.

COURSE EXIT SURVEY

- > Feedback from the students during class committee meetings
- > Anonymous feedback through questionnaire

COURSE POLICY

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- > At least 75% attendance in each course is mandatory.
- > A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.



ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HOD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- The above policy against academic dishonesty shall be applicable for all the programs.

FOR APPROVAL

2023 **Course Faculty** (Dr. Josephine R.L)

Chairperson S. LAYALVIZHI

HOD / EEE

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