

| | COURSE PLA | | T-I | | | |
|--|--|----------------------|--|--|--|--|
| Name of the program and specialization | | | B.Tech. EEE | | | |
| Course Title | Introduction to Electric | al and | Electro | nics Engineering. | | |
| Course Code | EEIR15 | No. of | No. of Credits 02 | | | |
| Course Code of Pre-requisite subject(s) | | NIL | | | | |
| Session | January 2023 | Section | n | A | | |
| Name of Faculty | Dr. Josephine R.L | Depai | tment | EEE | | |
| Email | josephinerl@nitt.edu | Telephone No. | | 0431-2504085 | | |
| Name of Course | Coordinator(s) (if, applica | ıble) | NA | Genty (N.C.) | | |
| Course type | General Institute Requ | | THE RESERVE THE PARTY OF THE PA | ch Specific Course) | | |
| DESCRIPTION OF THE PROPERTY OF | | | | | | |
| SYLLABUS (a) | pproved in BoS) | THE SHAPE | | | | |
| Basic ideas about aving. Introduction to dignal processing Brief overview of esting and measures. | ifferent types of electrical , specifications of electroni of curriculum, laboratories aring equipment. | ariff, en | hergy au house, house | udit and importance of energ wiring, electronic circuits for software packages, electronic | | |
| COURSE OBJI | | | | | | |
| This course facil electronicsengin | litates the students to get a decring. | compre | nensive | exposure to electrical and | | |
| MAPPING OF | COs with Pos | HP-DWY. | | | | |
| Course Outcon | | | | Program Outcomes (PO) (Enter Numbers only) | | |
| insightful knowle | of the course, the students sedge on various fundament | shall dev al elem | elop an ents of | 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 | Lectures) History, | | | | | | |
| 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 | Lectures) | | | | | | |
| 8 | Week 8(2 Lectures) 8- 12 May | Week 8(2 Importance of energy saving. Lectures) | | | | | | |
| 9 | Week 9(3 Lectures) 15-19 May Introduction to different types of electrical circuits, house wiring | | Chalk and Talk | | | | | |



| 10 | Week 10(2 Lectures) 22-26 May | house wiring (contd.) | | Chalk and Talk | |
|------|--|---|------------|----------------|----------------|
| 11 | Week 11(2 Lectures) 29 may-02 June | Electronic circuits for signal processing, specifications of electronic components. | | Chalk and Talk | |
| 12 | Week 12(2 Lectures) 05 -09 June | Brief overview of curriculum, laboratories and various software packages | | Chalk and Talk | |
| 13 | Week 13(2 Lectures) 12-16 June | Electronic testing and measuring equipment. | | Chalk and Talk | |
| 14 | Week 14(2 Lectures) 19-23 June | Electronic testing and measuring equipment | | Chalk and Talk | |
| COUI | RSE ASSESSMENT | METHODS | | | |
| S.No | Mode of Assessment | Week/Date | Duration | 1 | % Weightage |
| 1. | Assessment-1 (Module 1&2) | 24- 26 April | 90 minu | 90 minutes | |
| 2. | Assessment-2 (Module 3&4) | 22-24 May | 90 minutes | | 25 |
| 3. | Continuous Assessment | Assignments/Objective tests/Q During regular | type | 20 | |
| CPA | Compensation Assessment (Module 1,2,3,4) | 19-23 June | 90 minutes | | 25 |
| 4. | Assessment-4 Final Assessment | End semester Exam | 3 hours | | 30 |

Note:

(All Modules)

- 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.
- 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.

- Clayton Paul, Syed A Nasar and Louis Unnewehr, 'Introduction to Electrical Engineering', 2ndEdition, McGraw-Hill, 1992.
- Kothari D.P. & Nagrath I.J., 'Basic Electrical Engineering', 2nd Edition, Tata McGraw-Hill, 2001.
- 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

(Dr. Josephine R.L.)

S. CLAYAL VIZEL

Page 5 of 5