

BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK
ACADEMIC LESSON PLAN

Section: E

Subject :Basic Electronics Engineering(TH-4(b))

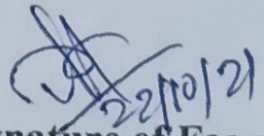
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| Discipline: ELECT ENGG. | Semester :1 st | Name of the Teaching Faculty: MIHIR KUMAR MOHANTY,Sr.LECTURER IN ETC |
| Subject: BASIC ELECTRONICS | NO. OF DAYS/WEEK CLASS ALLOTTED:02 PERIODS (WED, THU) 01 PERIOD EACH | SEMESTER FROM:– 25-OCT-2021 TO 31 –JAN-2022 |
| Week No. | Class Day | Theory Topics |
| W1 | 27-10-2021 | ELECTRONIC DEVICES 1.1 Basic concept of Electronics& its applications. |
| | 28-10-2021 | 1.2 Basic concept of ElectronEmission and its type. |
| W2 | 03-11-2021 | 1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only. |
| W3 | 10-11-2021 | 1.4 Intrinsic & Extrinsic Semiconductor. |
| | 11-11-2021 | 1.5 Difference between vacuum tube & semiconductor. |
| W4 | 17-11-2021 | 1.6 Principle of working and use of PN junction diode, Zener diode, Light Emitting Diode (LED) |
| | 18-11-2021 | 1.7 Basic concept of integrated circuits (I.C) & its uses. |
| W5 | 24-11-2021 | ELECTRONIC CIRCUITS 2.1 Define Rectifier & its use. |
| | 25-11-2021 | 2.2 Principles of working of different types of Rectifiers and their merits and demerits |
| W6 | 01-12-2021 | 2.3 Functions of filters and classification of simple Filter circuit |
| | 02-12-2021 | 2.4 Working of D.C power supply system (unregulated) with help of block diagrams only |
| W7 | 08-12-2021 | 2.5 Transistor, Different types of Transistor Configuration and state output and inputcurrent gain relationship in CE,CB and CC configuration(No mathematical derivation) |
| | 09-12-2021 | 2.6 Need of biasing and explain different types of biasing with circuit diagram. (only CE configuration) |
| W8 | 15-12-2021 | 2.7 Amplifiers(concept) , working principles of single phase CE amplifier Amplifier |
| | 16-12-2021 | 2.8 Electronic Oscillator and its classification |
| W9 | 22-12-2021 | COMMUNICATION SYSTEM 3.1 Basic communication system (concept & explanation with |

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| | | help of Block diagram) |
| | 23-12-2021 | 3.2 Concept of Modulation and Demodulation, Difference between them |
| W10 | 29-12-2021 | 3.3 Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, No mathematical Derivation) |
| | 30-12-2021 | |
| W11 | 05-01-2022 | TRANSUCERS AND MEASURING INSTRUMENTS 4.1 Concept of Transducer and Primary sensor and differences. |
| | 06-01-2022 | 4.2 Different type of Transducers & concept of active and passive transducer |
| W12 | 12-01-2022 | 4.3 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application. |
| | 13-01-2022 | 4.4 Multimeter, types and applications |
| W13 | 19-01-2022 | 4.5 Analog and digital multimeter and their differences |
| | 20-01-2022 | 4.6 Working principle of Multimeter with basic block diagram . |
| W14 | 27-01-2022 | 4.7 CRO , Block diagram of CRO and applications of CRO |


 Signature of Faculty


 HOD, E&TC


 Principal