**UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**

**Academic Lesson Plan for summer semester- 2022**

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| Name of the teaching faculty :Barsarani Misra  Semester:4th  No. of periods per week: **3**  End Semester Examination-50 | Discipline / Dept.: **EE**  Subject(PRATICAL): **AE**  Total Period :45  Sessional : 25 |

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| **Week** | **Period** | **UNIT/CHAPTER** | **TOPIC TO BE COVERED** |
|  | 1st | EXPERIMENT 1 | Determine the input and output Characteristics of CE & CB transistor configuration |
| 1ST | 2nd |
|  | 3rd |
| 2ND | 1st | EXPERIMENT2 | Determine Drain & Transfer Characteristics of JFET |
| 2nd |
| 3rd |
| 3RD | 1st | EXPERIMENT3 | Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter |
| 2nd |
| 3rd |
| 4TH | 1st | EXPERIMENT4 | Construct Bridge Rectifier using different filter and to determine Ripple factor |
| 2nd |
| 3rd |
| 5TH | 1st | EXPERIMENT5 | Construct & test the regulator using Zener diode |
| 2nd |
| 3rd |
| 6TH | 1st | EXPERIMENT6 | Construct different types of biasing circuit and analyze the wave form (i) Fixed bias (ii) Emitter bias (iii) Voltage divider bias |
| 2nd |
| 3rd |
| 7TH | 1st | EXPERIMENT7 | Study the single stage CE amplifier & find Gain |
| 2nd |
| 3rd |
| 8TH | 1st | EXPERIMENT8 | Study multi stage R-C coupled amplifier & to determine frequency- response & gain |
| 2nd |
| 3rd |
| 9TH | 1st | EXPERIMENT9 | . Construct & Find the gain of Class A. Amplifier |
| 2nd |
| 3rd |
| 10TH | 1st | EXPERIMENT10 | Construct& find the gain of Class B. Amplifier & Class C Tuned Amplifier |
| 2nd |
| 3rd |
| 11TH | 1st | EXPERIMENT11 | Construct & test push pull amplifier & observer the wave form |
| 2nd |
| 3rd |
| 12TH | 1st | EXPERIMENT12 | Construct & calculate the frequency of (i) Hartley Oscillator (ii) Collpit’s Oscillator |
| 2nd |
| 3rd |
| 13TH | 1st | EXPERIMENT13 | . Construct & calculate the frequency of Wien Bridge Oscillator & R-C phase |
| 2nd |
| 3rd |
| 14TH | 1st | EXPERIMENT14 | Construct & Test Differentiator and Integrator using R-C Circuit shift oscillator and draw wave form & calculate the frequency |
| 2nd |
| 3rd |
| 15TH | 1st | EXPERIMENT15 | Study Multivibrator ( Astable, Bistable, Monstable) Circuit & Draw its Wave forms |
| 2nd |
| 3rd |

This is done by the concerned faculty.