D2

Maharashtra State Board of Technical Education

**LABORATORY PLAN**

**Name of the institute**:-JSP               **Subject Code**:-22216

**Institute code**:-0711                             **Subject Name**:-BEL

**Branch**:-EJ **Name of the Faculty**:-Ms.A.D.Kulkarni

**FY-2 (B Batch)**

| **Expt.**  **No** | **Name of the Experiment** | **Date of Planning** | **Date of Completion** | **Remark** |
| --- | --- | --- | --- | --- |
| 1 | Test the performance of PN Junction Diode |  |  |  |
| 2 | Test the performance of Zener diode. |  |  |  |
| 3 | Test the performance of photo diode by varying the light intensity as well as distance of the light source. |  |  |  |
| 4 | Build/test half wave rectifier on breadboard |  |  |  |
| 5 | Build/test half wave rectifier on breadboard with filter Part I |  |  |  |
| 6 | Build/test half wave rectifier on breadboard with filter Part II |  |  |  |
| 7 | Build/ test full wave rectifier on breadboard using two diodes Part I |  |  |  |
| 8 | Build/ test full wave rectifier on breadboard using two diodes Part II. |  |  |  |
| 9 | Build/Test FW bridge rectifier on Breadboard |  |  |  |
| 10 | Use LC filter with FWR to measure Ripple Factor |  |  |  |
| 11 | Use pie filter with bridge FWR to measure Ripple Factor |  |  |  |
| 12 | Assemble Positive clipper circuit on breadboard and test the Performance |  |  |  |
| 13 | Assemble negative clipper circuit on breadboard and test the Performance |  |  |  |
| 14 | Build the combinational clipper circuit on breadboard and check the performance-Part-1 |  |  |  |
| 15 | Build the combinational clipper circuit on breadboard and check the performance-Part-2 |  |  |  |
| 16 | Build the positive clamper circuit on breadboard and check the performance-Part-1 |  |  |  |
| 17 | Build the positive clamper circuit on breadboard and check the performance-Part-2 |  |  |  |
| 18 | Assemble negative clamper circuit on breadboard and test the Performance |  |  |  |
| 19 | Identify the terminals of the PNP and NPN transistor using different Oscilloscope part-I |  |  |  |
| 20 | Identify the terminals of the PNP and NPN transistor using different Oscilloscope part-II |  |  |  |
| 21 | Find specification of given transistor using data sheet |  |  |  |
| 22 | Test the performance of BJT working in CE mode |  |  |  |
| 23 | Test the performance of BJT working in CB mode |  |  |  |
| 24 | Test the assembled voltage divider bias circuit for given input part-1 |  |  |  |
| 25 | Test the assembled voltage divider bias circuit for given input part-2 |  |  |  |
| 26 | Test FET transfer characteristics,Drain characteristics and calculate Transconductance part-I |  |  |  |
| 27 | Test FET transfer characteristics,Drain characteristics and calculate Transconductance part-II |  |  |  |
| 28 | Build/Test zener voltage regulator for given Vtg |  |  |  |
| 29 | Test performance of transistorized vtg series regulator for given load regulation |  |  |  |
| 30 | Test performance of transistorized vtg shunt regulator for given load regulation |  |  |  |
| 31 | Test various blocks of DC regulated power supply |  |  |  |
| 32 | Find out faults at each step of DC power supply |  |  |  |
| 33 | Troubleshoot given DC regulated power supply part-I |  |  |  |
| 34 | Troubleshoot given DC regulated power supply part-II |  |  |  |

**SIGN OF SUBJECT TEACHER                                                                               SIGN OF H.O.D**