



BMS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PBL Compendium-2018-19

| SI No | Project Title | Guide Name |
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| 1 | Analysis of similarity of 2 time domain signals | Prashant A A |
| 2 | Implementation of convolution operation using a simulation package | Prashant A A |
| 3 | Implementation of signal classifier as energy and power, using a simulation package | Prashant A A |
| 4 | Implementation of system classifier as stable and unstable, using a simulation package | Prashant A A |
| 5 | Frequency analysis of a given audio signal using a simulation package | Prashant A A |
| 6 | 16 bit by 8 bit division using Using 8051 assembly/C | Suma U |
| 7 | 16 bit X 16 bit multiplication using 8051 assembly language /C | Suma U |
| 8 | Implementation of DA A logic using 8051 assembly language /C | Suma U |
| 9 | Linear programming using Simplex technique with examples | Dr. Sanjay L |
| 10 | PERT/CPM method for project evaluation. | Dr. Sanjay L |
| 11 | Program to demonstrate the “stagecoach” problem | Dr. Sanjay L |
| 12 | Demonstrate the shortest path method | Dr. Sanjay L |
| 13 | Find the number of paths to go from one corner to opposite corner in a square grid (n x m grid) | Dr. Sanjay L |
| 14 | IOT Based Power Management System | Prashanth N A |
| 15 | Automatic Power Factor Compensation | Prashanth N A |
| 16 | IOT based AC Power and AC transformer monitoring system | Prashanth N A |
| 17 | Design of Boost converter using PSPICE | Prashanth N A |
| 18 | Wind Powered mobile charger | Prashanth N A |
| 19 | Design and Implementation of AC Voltage Controller | Shilpa G |
| 20 | Design and Implementation of two level H- Bridge Inverter | Shilpa G |
| 21 | Design and Implementation of Controlled Rectifier | Shilpa G |
| 22 | Design and Implementation of Step down Chopper | Shilpa G |
| 23 | Design and Implementation of a step up Chopper | Shilpa G |
| 24 | Transient Analysis of a 6-bus system | Dr. Madhu P |
| 25 | Optimal capacitor placement in a distribution network | Dr. Madhu P |
| 26 | Harmonic analysis and mitigation of harmonics in a distribution network | Dr. Madhu P |
| 27 | High efficiency, high power and compact pure sine wave solar inverter | H D Kattimani |
| 28 | Electrical Circuit Breaker to protect an Electrical circuit from damage caused by overload/ Short Circuit | H D Kattimani |
| 29 | Wireless Transmitter & Receiver using RF Modules | H D Kattimani |
| 30 | Solar water heater to heat water by sun light & used for domestic purpose | H D Kattimani |
| 31 | Digital fluid level indicator to indicate level of fluid | H D Kattimani |
| 32 | Design of Buck - Boost converter using PSPICE | ManjunathBabu |
| 33 | A Case study on Estimation and Costing for House Wiring | ManjunathBabu |
| 34 | Water Level Indicator | ManjunathBabu |
| 35 | Power Factor Improvement in Induction Motor | ManjunathBabu |
| 35 | Industrial Automation Using Cell Phones | ManjunathBabu |
| 36 | Measurement of power in a 3 phase balanced circuit using two wattmeter for star and Delta connected loads. | BabuNaik |
| 37 | Adjustment and Calibration of Single phase Energy meter. | BabuNaik |
| 38 | Measurement of low resistance using Kelvin’s Double Bridge. | BabuNaik |
| 39 | Measurement of self-inductance using Maxwell’s inductance | BabuNaik |

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| | bridge. | |
| 40 | Measurement of capacitance using Desauty's bridge. | BabuNaik |
| 41 | Simulation of transformer equivalent circuit using Matlab for different types | Manjula B K |
| 42 | Extension lamp life using ZVS | Manjula B K |
| 43 | PC Controlled scrolling message display for notice board | Manjula B K |
| 44 | Optimum energy management system | Manjula B K |
| 45 | Analysis of transformer operation using simulation for different loading conditions | Manjula B K |
| 46 | Self powered door bell watcher | Rajnikanth VK |
| 47 | Realisation of 8:1 MUX using 2:1 MUX | Dr. MadhuPalati |
| 48 | Design of Inverter circuit using MATLAB | Rajnikanth VK |
| 49 | Realization of full adder using 74138 Decoder | Dr. MadhuPalati |
| 50 | Generation of PWM signals using MATLAB | Rajnikanth VK |
| 51 | Design of rectifier circuit using MATLAB | Rajnikanth VK |
| 52 | Estimation of Solar PV Panel Energy for a Roof top Building | Dr. MadhuPalati |
| 53 | Studies on Improving the Voltage Distribution in a Transmission line | Dr. MadhuPalati |
| 54 | Studies on improving the Power factor in a transmission line | Dr. MadhuPalati |
| 55 | Energy Audit of BMSIT&M | Dr. MadhuPalati |
| 56 | Design and implementation of Voltage doubler for generating DC voltages | Dr. MadhuPalati |
| 57 | Design and implementation of Cascaded Transformer for generation of ac voltages | Dr. MadhuPalati |
| 58 | Frequency analysis of a given 1-D time domain signal | Prashant A A |
| 59 | Frequency domain filtering of a 1-D signal | Prashant A A |
| 60 | Classifying the input music audio signal based on the notes | Prashant A A |
| 61 | Interactive GUI development in MATLAB for creating and visualising a 1D signal | Prashant A A |
| 62 | Interactive GUI development in MATLAB for creating and visualising the twiddle factor | Prashant A A |
| 63 | Simulation of power system for different fault conditions using MATLAB | Manjula B K |
| 64 | Simulation of speed control of DC series and shunt motor using MATLAB | Manjula B K |
| 65 | Modeling of three phase induction motor and to obtain speed torque characteristics using MATLAB | Manjula B K |
| 66 | Simulation of single phase dual converter , parallel inverter using MATALAB | Manjula B K |
| 67 | Comparison of computational results with theoretical values of performance parameters of DC motor | Manjula B K |
| 68 | Design of Linear Variable Differential Transducer System for Displacement Measurement | Dr. N Ramarao |
| 69 | Design of Capacitive Transducer for water level measurement | Dr. N Ramarao |
| 70 | Design of Signal Conditioning System for Transducer | Dr. N Ramarao |
| 71 | Design of Embedded System for the Measurement of Non-electrical Physical Quantities | Dr. N Ramarao |

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