

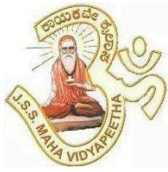
JSS Mahavidyapeetha
JSS Science and Technology University
Sri Jayachamarajendra College of Engineering
Department of Electrical & Electronics Engineering



ELECTRICAL MACHINES LAB



Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Mr. B. Aprameya Swarup, Associate Professor Mrs. Deepa S. N., Assistant Professor	Mr. Madhusudana, N., Lab Instructor
Facilities Available	
<ul style="list-style-type: none"> • Conventional D.C. generators and motors with loading facility. • Single-phase and three-phase transformers. • Accessories like power supply panels, meters, rheostats, tachometers, loads, etc. • Alternators with synchronizing facility. • Single-phase and three-phase induction motors with loading facility. • Variable Frequency Drive trainer with associated machines and controller. 	
Utilization	
Facilities in this lab are used for conducting experiments on conventional D.C. and A.C. electrical machines as prescribed in the curriculum of B.E. Degree Program in E&EE. They may also be used for student project works.	



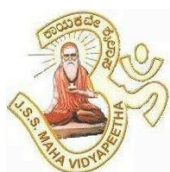
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ANALOG ELECTRONICS LAB



Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Mr. S. Raghavendra, Associate Professor Mr. K. M. Vinay, Assistant Professor Ms. Neethi, M., Assistant Professor	Mr. Pradeepa K. P., Lab Instructor Mr. Adarsha, B. G. Helper
Facilities Available	
<ul style="list-style-type: none"> • CROs, signal generators, regulated power supplies, multimeters. • Breadboards, soldering facilities, CRO probes and other accessories. 	
Utilization	
Facilities in this lab are used for conducting experiments in the subjects Basic Electronics Lab, Analog Electronics Lab, Op-amps and Linear ICs Lab, as prescribed in the curriculum of B.E. Degree Program in E&EE. They may also be used for student project works.	



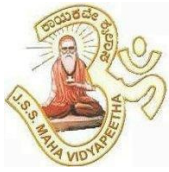
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DEPARTMENT COMPUTER CENTRE



Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Mr. R. S. Ananda Murthy, Associate Professor Ms. Neethi, M. Assistant Professor Mrs. Deepa S. N., Assistant Professor Mr. Sowmyashree, Assistant Professor	Mr. Mahesh, R., Lab Instructor Mr. Siddegowda, Helper
Facilities Available	
<ul style="list-style-type: none"> Standard PCs meeting specifications to support modern application softwares. MS Windows and GNU Linux OS. Computers connected to internet and campus-wide LAN or wifi. Softwares -- MiPower, LabView, ETAP, GNU Octave, NgSpice, Scilab, LibreCAD, AutoCAD, QElectrotech, PCB, PCB Designer, TexLive and associated GUIs, C/C++ compilers, Icarus Verilog, Icarus Verilog, Altera Quartus, Xilinx Vivado. 	
Utilization	
Facilities in this lab are used for conducting experiments in the subjects Circuit Simulation and Signal Processing Lab, Microcontrollers Lab, Digital System Design Lab using HDL, Power System Simulation Lab, Electrical CAD Lab prescribed in the curriculum of B.E. Degree Program in E&EE, Computational Techniques Lab prescribed for M.Tech. Program in Energy Systems and Management. They are also used for student project works.	



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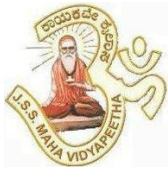
HIGH VOLTAGE AND RELAY LAB





The research lab on H.V. applications for environmental protection has been funded by A.I.C.T.E, V.T.U, and D.S.T. under Research Promotion Scheme.

Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Dr. A. D. Srinivasan, Professor	Mr. Mudalappa, Assistant Lab Instructor
Facilities Available	
<ul style="list-style-type: none"> Impulse voltage generator, power frequency cascade transformer set up, partial discharge free coupling capacitor, digital impulse measuring system, oil testing kit, storage oscilloscope, facilities for studying the application of high voltage plasma techniques to reduce pollution due to vehicular/stationary emission. Relay test rig, different types of electromechanical and numerical relays, panels for studying differential protection of transformer, over-current protection of feeders, induction motor protection, generator protection, transmission line models. 	
Utilization	
<p>Facilities in this lab are used for conducting experiments in the subjects Relay and High Voltage Lab prescribed in the curriculum of B.E. Degree Program in E&EE, and also for conducting research on the application of high voltage plasma techniques for the abatement of vehicular/stationary pollution. They are also used for student project works.</p>	



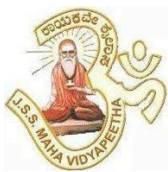
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LOGIC DESIGN LAB AND SCHNEIDER ELECTRIC ADVANCED INDUSTRIAL AUTOMATION LAB



Schneider Electric Advanced Industrial Automation Lab has been setup under MOU with Schneider Electric Co.	
Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Mr. Ravishankar B. S., Assistant Professor Mrs. Divyashree, Senior Teaching Fellow	Mr. Siddegowda, Helper Mr. Ravisha, Helper
Facilities Available	
<ul style="list-style-type: none"> Logic system trainer kits with associated accessories. PLCs, HMIs, pushbuttons, switches, and lamps, PC's, SO-Machine Software, VFDs. 	
Utilization	
Facilities in this lab are used for conducting experiments in the subjects Logic Design and Advanced Industrial Automation prescribed in the curriculum of B.E. Degree Program in E&EE. They are also used for student project works.	



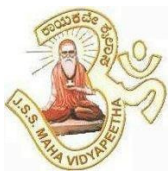
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CONTROL SYSTEMS LAB AND SCHNEIDER ELECTRIC ADVANCED ENERGY MANAGEMENT LAB



Schneider Electric Advanced Energy Management Lab has been setup under MOU with Schneider Electric Co.	
Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Dr. M. S. Shashikala, Professor	Mr. Pradeepa K. P., Lab Instructor Mr. Ravisha, Helper
Utilization	
<ul style="list-style-type: none"> Control systems trainer kits and microcontroller development kits Smart energy meters with loading facility Different types of switchgear manufactured by Schneider Electric. Energy saver module, relays, and HMI manufactured by Schneider Electric Co. 	
Facilities Available	
Facilities in this lab are used for conducting experiments in the subject Control Systems Lab and Advanced Energy Management as prescribed in the curriculum of B.E. Degree Program in E&EE, and Energy Systems Lab prescribed for M.Tech. Program in Energy Systems and Management. They may also be used for student project works.	



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ELECTRICAL AND ELECTRONIC MEASUREMENTS LAB AND POWER ELECTRONICS LAB



Teaching Faculty In-charge	Technical and Supporting Staff In-charge
Dr. M. H. Sidram, Associate Professor Mrs. Sowmyashree, Assistant Professor	Mr. Pradeepa, K. P., Lab Instructor Nagesha B., Lab Helper
Facilities Available	
<ul style="list-style-type: none"> Equipment to conduct basic experiments on electrical and electronic measurements like calibration of energy meters, testing of C.T.s, A.C./D.C. bridges, etc. Power electronic trainer kits, digital storage oscilloscopes, isolation transformers. 	
Utilization	
Facilities in this lab are used for conducting experiments in the subjects Electrical and Electronics Measurements, and Power Electronics Lab as prescribed in the curriculum of B.E. Degree Program in E&EE. They may also be used for student project works.	