



# MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

363, Arcot Road, Kodambakkam, Chennai – 24  
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**2.3.1. Students centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

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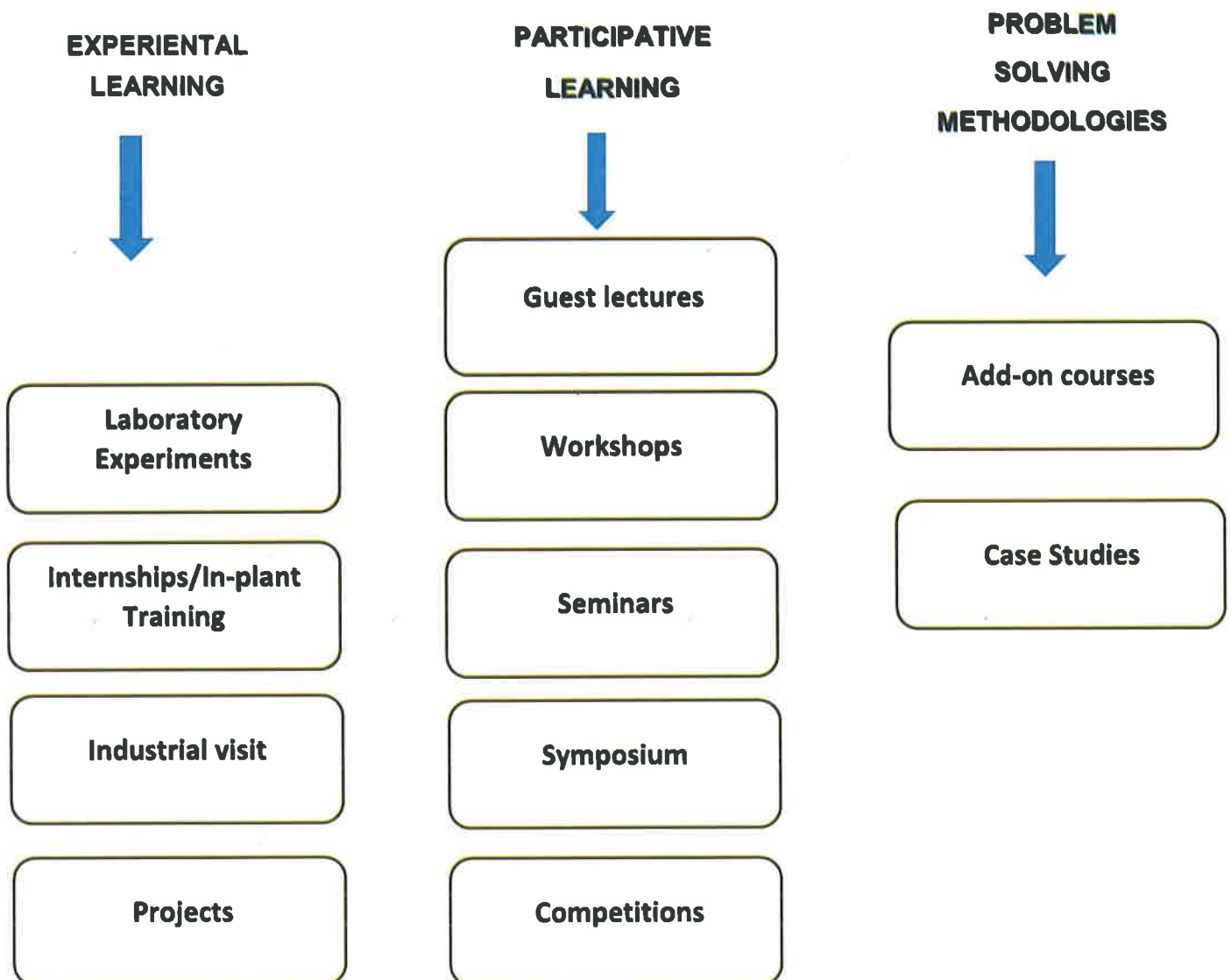
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## 1.0 METHODOLOGY OF STUDENT CENTRIC TEACHING-LEARNING





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## 2.0 EXPERIENTIAL LEARNING (2.3.1)

## 2.1 LABORATORY EXPERIMENTS

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.NO	LABORATORY NAME	LIST OF THE EXPERIMENTS
1.	Electronics Laboratory	<ol style="list-style-type: none"><li>1. Characteristics of Semiconductor diode and Zener diode</li><li>2. Characteristics of a NPN Transistor under Common Emitter, Common Collector and Common Base configurations</li><li>3. Characteristics of JFET and draw the equivalent circuit</li><li>4. Characteristics of UJT and generation of saw tooth waveforms</li><li>5. Design and Frequency response characteristics of a Common Emitter amplifier</li><li>6. Characteristics of Photo Diode &amp; Photo Transistor, Study of light activated relay circuit</li><li>7. Design and testing of RC phase shift and LC oscillators</li><li>8. 1<math>\Phi</math> Half-wave and Full wave Rectifiers with Inductive and Capacitive Filters</li><li>9. Differential Amplifiers using FET</li><li>10. Study of CRO for Frequency and Phase Measurements</li></ol>



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**Electronics Laboratory (EEE LAB)**

2.	<b>Electrical Machines laboratory-I</b>	<ol style="list-style-type: none"><li>1. Open circuit and load characteristics of DC shunt generator- critical resistance and critical speed.</li><li>2. Load characteristics of DC compound generator with differential and cumulative connections.</li><li>3. Load test on DC shunt motor.</li><li>4. Load test on DC compound motor.</li><li>5. Load test on DC series motor.</li><li>6. Swinburne's test and speed control of DC shunt motor.</li><li>7. Hopkinson's test on DC motor – generator set.</li><li>8. Load test on single-phase transformer and three phase transformers.</li><li>9. Open circuit and short circuit tests on single phase transformer.</li></ol>
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		<p>10. Sumpner's test on single phase transformers.</p> <p>11. Separation of no-load losses in single phase transformer.</p> <p>12 Study of starters and 3-phase transformers connections.</p>
3.	<b>Electrical Machines laboratory-II</b>	<ol style="list-style-type: none"><li>1. Regulation of three phase alternator by EMF and MMF methods.</li><li>2. Regulation of three phase alternator by ZPF and ASA methods.</li><li>3. Regulation of three phase salient pole alternator by slip test.</li><li>4. Measurements of negative sequence and zero sequence impedance of alternators.</li><li>5. V and Inverted V curves of Three Phase Synchronous Motor.</li><li>6. Load test on three-phase induction motor..</li><li>7. No load and blocked rotor tests on three-phase induction motor (Determination of equivalent circuit parameters).</li><li>8. Separation of No-load losses of three-phase induction motor.</li><li>9. Load test on single-phase induction motor.</li><li>10.No load and blocked rotor test on single-phase induction motor.</li><li>11.Study of Induction motor Starters</li></ol>



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**Electrical Machines Laboratory I & II (EEE LAB)**

4.	<b>Linear and Digital Integrated Circuits laboratory</b>	<ol style="list-style-type: none"><li>1. Implementation of Boolean Functions, Adder and Subtractor circuits.</li><li>2. Code converters: Excess-3 to BCD and Binary to Grey code converter and vice-versa</li><li>3. Parity generator and parity checking</li><li>4. Encoders and Decoders</li><li>5. Counters: Design and implementation of 3-bit modulo counters as synchronous and Asynchronous types using FF IC's and specific counter IC.</li><li>6. Shift Registers: Design and implementation of 4-bit shift registers in SISO, SIPO, PISO, PIPO modes using suitability IC's.</li></ol>
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		<p>7. Study of multiplexer and de multiplexer</p> <p>8. Timer IC application: Study of NE/SE 555 timer in Astability, Mon stability operation.</p> <p>9. Application of Op-Amp: inverting and non-inverting amplifier, Adder, comparator, Integrator and Differentiator.</p> <p>10. Voltage to frequency characteristics of NE/ SE 566 IC.</p> <p>11. Variability Voltage Regulator using IC LM317.</p>
5.	<b>Control &amp; Instrumentation Laboratory</b>	<p><b>CONTROLSYSTEMS:</b></p> <ol style="list-style-type: none"><li>1. P, PI and PID controllers</li><li>2. Stability Analysis</li><li>3. Modeling of Systems – Machines, Sensors and Transducers</li><li>4. Design of Lag, Lead and Lag-Lead Compensators</li><li>5. Position Control Systems</li><li>6. Synchro-Transmitter- Receiver and Characteristics</li><li>7. Simulation of Control Systems by Mathematical development tools.</li></ol> <p><b>8. INSTRUMENTATION:</b></p> <ol style="list-style-type: none"><li>9. 8. Bridge Networks –AC and DC Bridges</li><li>10.9. Dynamics of Sensors/Transducers</li></ol>

*Principal*



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		<p>Temperature (b) pressure (c) Displacement (d) Optical (e) Strain ( f) Flow</p> <p>11. Power and Energy Measurement 12. Signal Conditioning</p> <ul style="list-style-type: none"><li>a. Instrumentation Amplifier</li><li>b. Analog – Digital and Digital –Analog converters (ADC and DACs)</li></ul> <p>13. Process Simulation</p>
		
		<p><b>Control &amp; Instrumentation laboratory (EEE LAB)</b></p> <ol style="list-style-type: none"><li>1. Gate Pulse Generation using R, RC and UJT.</li><li>2. Characteristics of SCR and TRIAC</li></ol>





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6.	<b>Power Electronics and Drives Laboratory</b>	<ol style="list-style-type: none"><li>3. Characteristics of MOSFET and IGBT</li><li>4. AC to DC half controlled converter</li><li>5. AC to DC fully controlled Converter</li><li>6. Step down and step up MOSFET based choppers</li><li>7. IGBT based single phase PWM inverter</li><li>8. IGBT based three phase PWM inverter</li><li>9. AC Voltage controller</li><li>10. Switched mode power converter.</li><li>11. Simulation of PE circuits (1<math>\Phi</math> &amp; 3<math>\Phi</math> semi converters, 1<math>\Phi</math> &amp; 3<math>\Phi</math> full converters, 12. DC-DC converters, AC voltage controllers).</li><li>13. Characteristics of GTO &amp; IGCT.</li><li>14. Characteristics of PMBLDC motor</li></ol>
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<b>Power Electronics and Drives Laboratory(EEE LAB)</b>		
7.	<b>Power System Simulation laboratory</b>	<ol style="list-style-type: none"><li>1 Computation of Transmission Line Parameters</li><li>2 Formation of Bus Admittance and Impedance Matrices and Solution of Networks</li><li>3 Power Flow Analysis using Gauss-Seidel Method</li><li>4 Power Flow Analysis using Newton Raphson Method</li><li>5 Symmetric and unsymmetrical fault analysis</li><li>6 Transient stability analysis of SMIB System</li><li>7 Economic Dispatch in Power Systems</li><li>8 Load – Frequency Dynamics of Single- Area and Two-Area Power Systems</li><li>9 State estimation: Weighted least square estimation</li><li>10 Electromagnetic Transients in Power Systems : Transmission Line Energization</li></ol>
		
<b>POWER SYSTEMS AND SIMULATION LABORATORY (EEE LAB)</b>		



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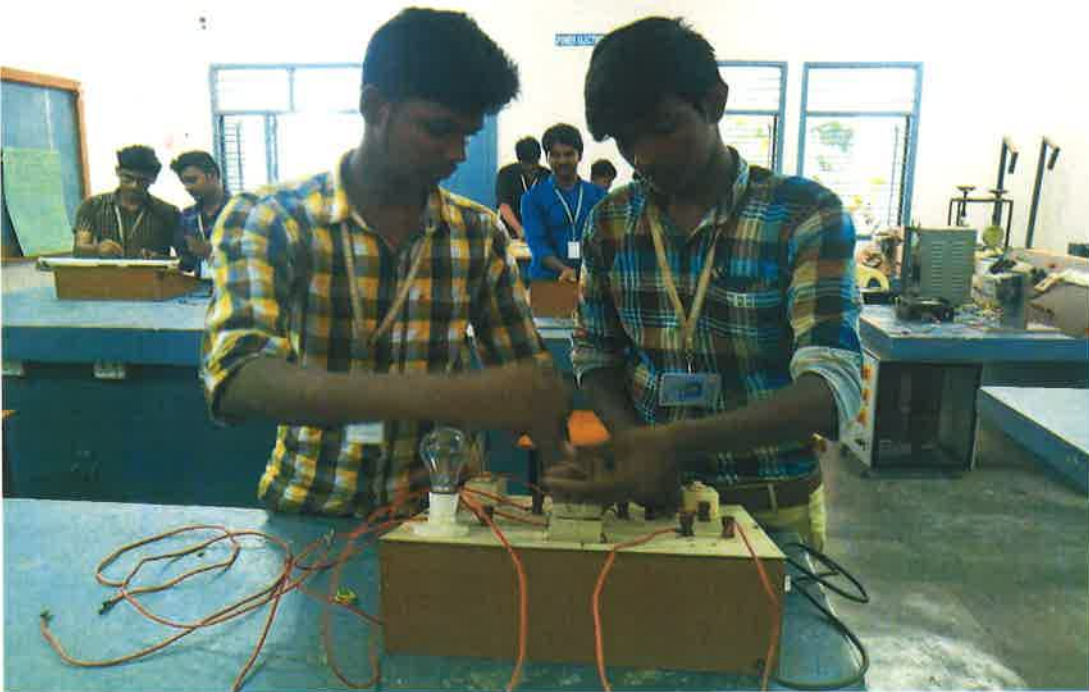
8.	<b>Renewable Energy systems Laboratory</b>	<ol style="list-style-type: none"><li>1 Simulation study on Solar PV Energy System.</li><li>2 Experiment on "VI-Characteristics and Efficiency of 1kWp Solar PV System".</li><li>3 Experiment on "Shadowing effect &amp; diode based solution in 1kWp Solar PV System".</li><li>4 Experiment on Performance assessment of Grid connected and Standalone 1kWp Solar Power System.</li><li>5 Simulation study on Wind Energy Generator. 6 Experiment on Performance assessment of micro Wind Energy Generator.</li><li>7 Simulation study on Hybrid (Solar-Wind) Power System.</li><li>8 Experiment on Performance Assessment of Hybrid (Solar-Wind) Power System.</li><li>9 Simulation study on Hydel Power.</li><li>10 Experiment on Performance Assessment of 100W Fuel Cell.</li><li>11 Simulation study on Intelligent Controllers for Hybrid Systems</li></ol>
9.	<b>Engineering Practices</b>	<b>ELECTRICAL ENGINEERING PRACTICE</b> <ol style="list-style-type: none"><li>1. Residential house wiring using switches, fuse, indicator, lamp and energy meter.</li><li>2. Fluorescent lamp wiring.</li></ol>



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	<b>Laboratory</b>	<ol style="list-style-type: none"><li>3. Stair case wiring</li><li>4. Measurement of electrical quantities – voltage, current, power &amp; power factor in RLC circuit.</li><li>5. Measurement of energy using single phase energy meter.</li><li>6. Measurement of resistance to earth of an electrical equipment</li></ol>
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**Engineering Practices Laboratory (EEE LAB)**

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## DEPARTMENT OF MECHANICAL ENGINEERING



### ENGINEERING PRACTICES LABORATORY (WORKSHOP)

S.NO	LIST OF EXPERIMENTS
	<b>BUILDINGS</b>
1	Study of plumbing and carpentry components of residential and industrial buildings. Safety aspects
	<b>PLUMBING WORKS</b>
1	Study of pipeline joints, its location and functions: valves, taps, couplings, unions, reducers, elbows in household fittings.
2	Study of pipe connections requirements for pumps and turbines
3	Preparation of plumbing line sketches for water supply and sewage works
4	Basic pipe connections – Mixed pipe material connection – Pipe connections with different joining components
5	Demonstration of plumbing requirements of high-rise buildings
	<b>Carpentry using Power Tools</b>
1	Study of the joints in roofs, doors, windows and furniture.
2	Hands-on-exercise: Wood work, joints by sawing, planing and cutting



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## II MECHANICAL ENGINEERING PRACTICE:

S.NO	LIST OF EXPERIMENTS
<b>WELDING</b>	
1	Preparation of arc welding of butt joints, lap joints and tee joints.
2	Gas welding practice
<b>BASIC MACHINING</b>	
1	Simple Turning and Taper turning
2	Drilling Practice
<b>SHEET METAL WORK</b>	
1	Forming & Bending:
2	Model making – Trays, funnels, etc.
3	Different type of joints.
<b>MACHINE ASSEMBLY PRACTICE</b>	
1	Study of centrifugal pump
2	Study of air conditioner
<b>DEMONSTRATION ON</b>	
1	Smithy operations, upsetting, swaging, setting down and bending. Example –



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2	Exercise – Production of hexagonal headed bolt.
3	Foundry operations like mould preparation for gear and step cone pulley.
4	Fitting – Exercises – Preparation of square fitting and vee – fitting models



**RESEARCH AND CONSULTANCY LAORATORY**

### Part A 3D GEOMETRIC MODELLING

S.NO	NAME OF THE EXPERIMENT
1	INTRODUCTION OF 3D MODELLING SOFTWARE- CREO PARAMETRIC 2.0
2	3D Geometric Modelling & Assembly of FLANGE COUPLING
3	3D Geometric Modelling & Assembly of PLUMMER BLOCK
4	3D Geometric Modelling & Assembly of SCREW JACK
5	3D Geometric Modelling & Assembly of TAILSTOCK
6	3D Geometric Modelling & Assembly of UNIVERSAL JOINT
7	3D Geometric Modelling & Assembly of MACHINE VICE
8	3D Geometric Modelling & Assembly of STUFFING BOX



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9	3D Geometric Modelling & Assembly of CROSSHEAD
10	3D Geometric Modelling & Assembly of SAFETY VALVES
11	3D Geometric Modelling & Assembly of NON-RETURN VALVES
12	3D Geometric Modelling & Assembly of CONNECTING ROD
13	3D Geometric Modelling & Assembly of PISTON
14	3D Geometric Modelling & Assembly of CRANKSHAFT

### PART B - MANUAL PART PROGRAMMING.

PART PROGRAMMING - CNC MACHINING	
1	Linear Cutting.
2	Circular Cutting.
3	Cutter Radius Compensation.
4	Canned Cycle Operations.
PART PROGRAMMING - CNC TURNING CENTRE	
5	Straight, Taper And Radius Turning.
6	Thread Cutting.
7	Rough And Finish Turning Cycle.
8	Drilling And Tapping Cycle.

### PART C - COMPUTER AIDED PART PROGRAMMING

1	CL Data And Post Process Generation Using Cam Packages
2	Application Of Capp In Machining And Turning Centre.





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## SIMULATION AND ANALYSIS LABORATORY (MECHANICAL LAB)

### PART A - SIMULATION

S.NO	NAME OF THE EXPERIMENT
1	Matlab Basics, Dealing With Matrices, Graphing-Functions Of One Variable And Two Variables
2	Use Of Matlab To Solve Simple Problems In Vibration
3	Mechanism Simulation Using Multibody Dynamic Software

### Part B - ANALYSIS

4	Forces And Stress Analysis Using Link Elements In Trusses And Cables
5	Stress And Deflection Analysis In Beams With Different Support Conditions
6	Stress Analysis Of Flat Plate And Simple Shells
7	Stress Analysis Of Axi-Symmetric Components
8	Thermal Stress And Heat Transfer Analysis Of Plates
9	Thermal Stress Analyses Of Cylindrical Shells
10	Vibration Analysis Of Spring Mass System
11	Modal Analysis Of Beams
12	Harmonic, Transient And Spectrum Analysis Of Simple Systems



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### ME8511 / KINEMATICS AND DYNAMICS LABORATORY (MECHANICAL LAB)

S.NO	NAME OF THE EXPERIMENT
1	Determination of Mass Moment of Inertia using compound pendulum.
2	Determination of Mass Moment of Inertia using bifilar suspension.
3	Determination of Mass moment of inertia of connecting rod.
4	Determination of Mass Moment of Inertia of axisymmetric bodies using Turn Table apparatus.
5	Motorized gyroscope–Study of gyroscopic effect and couple.
6	Governor-Determination of range sensitivity, effort etc., for Watts and Porter Governors.
7	Governor-Determination of range sensitivity, effort etc., for Proell and Hartnell Governors.
8	Cams–Cam profile drawing, Motion curves and study of jump phenomenon
9	Single degree of freedom Spring Mass System–Determination of natural Frequency and Damping coefficient determination.
10	Determination of torsional natural frequency of Single Rotor systems.
11	Determination of torsional natural frequency of Double Rotor systems.



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12	Whirling of shafts–Determination of critical speeds of shafts with concentrated loads.
13	Balancing of rotating masses and Balancing of reciprocating masses.
14	Study the Transverse Vibrations of Simply Supported Beam Subjected to Central and Offset Concentrated Load.
15	Study the Forced Vibration of Cantilever Beam for Different Damping Conditions.
16	Determination of transmissibility ratio using vibrating table.
17	Study of gear parameters.
18	Study of Kinematics of Four Bar, Slider Crank, Crank Rocker, Double crank, Double rocker, Oscillating cylinder Mechanisms.
19	Experimental study of velocity ratios of simple, compound, Epicyclic and differential gear trains.
20	Study of Kinematics of single and double universal joints.



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### METROLOGY AND MEASUREMENT LABORATORY (MECHANICAL LAB)

S.NO	NAME OF THE EXPERIMENT
1	Calibration of Vernier Caliper
2	Measurement of Components using Vernier Height Gauge
3	Measurement of Components using Vernier Depth Gauge
4	Calibration of Micrometer
5	Calibration of Mechanical Comparator
6	Measurement of Gear Parameters using Gear Tooth Vernier
7	Measurement of Thread Parameter using Profile Projector
8	Measurement of Angle using Vernier Bevel Protractor
9	Measurement of Taper Angle Measurement using Sine Bar and Slip Gauge
10	Measurement of Thread Parameters by using Floating Carriage Micrometer
11	Measurement of Torque using Gauge Load Cell
12	Measurement of Force using Strain Gauge Load Cell
13	Measurement of Temperature using Thermocouple



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14	Measurement of Straightness and Flatness Using Two Axis Auto Collimator
15	Measurement of Thread Parameters Using Tool Maker's Microscope
16	Measurement of Surface Roughness Using Surface Roughness Tester
17	Measurement of Bore Diameter Using Telescope Gauge



### STRENGTH OF MATERIALS LABORATORY

S.NO	NAME OF THE EXPERIMENTS
1.	Tension test on a mild steel rod
2.	Double shear test on Mild steel and Aluminium rods
3.	Torsion test on mild steel rod
4.	Impact test on metal specimen
5.	Hardness test on metals - Brinnell and Rockwell Hardness Number
6.	Deflection test on beams
7.	Compression test on helical springs
8.	Strain Measurement using Rosette strain gauge

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9.	Effect of hardening- Improvement in hardness and impact resistance of steels.
10.	Tempering- Improvement Mechanical properties Comparison (i) Unhardened specimen (ii) Quenched Specimen and (iii) Quenched and tempered specimen.
11.	Microscopic Examination of (i) Hardened samples and (ii) Hardened and tempered samples.



### THERMAL ENGINEERING LABORATORY (MECHANICAL LAB)

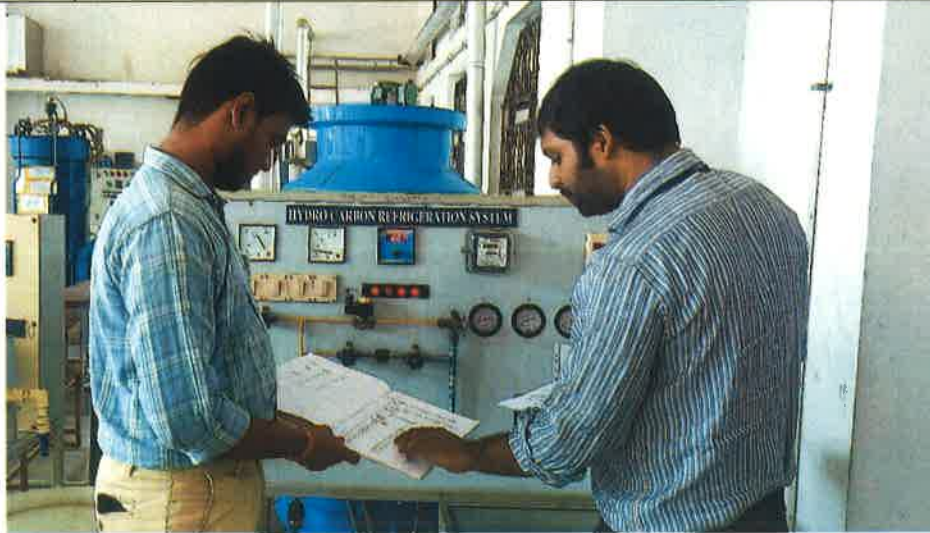
S.NO	LIST OF EXPERIMENTS IN I.C. ENGINE LAB
1.	Valve Timing and Port Timing diagrams.
2.	Actual p-v diagrams of IC engines.
3.	Performance Test on 4 – stroke Diesel Engine
4.	Heat Balance Test on 4 – stroke Diesel Engine.
5.	Morse Test on Multi-cylinder Petrol Engine
6.	Retardation Test on a Diesel Engine.
7.	Determination of Flash Point and Fire Point of various fuels / lubricants



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S.NO	LIST OF EXPERIMENTS IN STEAM LAB
1.	Study on Steam Generators and Turbines.
2.	Performance and Energy Balance Test on a Steam Generator
3.	Performance and Energy Balance Test on Steam Turbine.



### STEAM AND HEAT TRANSFER LAB (MECHANICAL LAB)

S.NO	LIST OF EXPERIMENTS IN HEAT TRANSFER LAB
1.	Thermal conductivity measurement using guarded plate apparatus.
2.	Thermal conductivity measurement of pipe insulation using lagged pipe apparatus.
3.	Determination of heat transfer coefficient under natural convection from a vertical cylinder.
4.	Determination of heat transfer coefficient under forced convection from a tube
5.	Determination of Thermal conductivity of composite wall.
6.	Determination of Thermal conductivity of insulating powder.
7.	Heat transfer from pin-fin apparatus (natural & forced convection modes)



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8.	Determination of Stefan – Boltzmann constant.
9.	Determination of emissivity of a grey surface.
10.	Effectiveness of Parallel / counter flow heat exchanger
<b>S.NO</b>	<b>LIST OF EXPERIMENTS IN REFRIGERATION AND AIR CONDITIONING LAB</b>
1.	Determination of COP of a refrigeration system
2.	Experiments on Psychrometric processes
3.	Performance test on a reciprocating air compressor
4.	Performance test in a HC Refrigeration System
5.	Performance test in a fluidized Bed Cooling Tower

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### MANUFACTURING TECHNOLOGY LABORATORY (MECHANICAL LAB)

S.NO	NAME OF THE EXPERIMENT MT-1
1	Machining and machining time estimation for Taper turning.
2	Machining and machining time estimation for External thread cutting.
3	Machining and machining time estimation for Internal thread cutting.
4	Machining and machining time estimation for Eccentric turning.
5	Machining and machining time estimation for Knurling
6	Machining and machining time estimation for Square head shaping.
7	Machining and machining time estimation for Hexagonal head shaping.
8	Fabrication of simple structural shapes using Gas metal Arc welding.
9	Joining of plates and pipes using Gas Metal Arc welding/ Submerged arc welding.
10	Preparation of green sand moulds.
11	Manufacturing of simple sheet metal components using shearing and bending operations.

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12	Manufacturing of sheet metal components using metal spinning on a lathe.
S.NO	NAME OF THE EXPERIMENT MT-II
1	Contour milling using vertical milling machine.
2	Spur gear cutting in Milling machine.
3	Helical Gear cutting in Milling machine.
4	Gear generation in Hobbing Machine
5	Gear generation in gear shaping machine.
6	Plain surface grinding.
7	Cylindrical grinding.
8	Tool angle grinding with tool and cutter Grinder.
9	Measurement of cutting forces in Milling/ Turning Process.
10	CNC Part programming.



**Fluid Mechanics and Machinery Laboratory (MECHANICAL LAB)**

*Sum*



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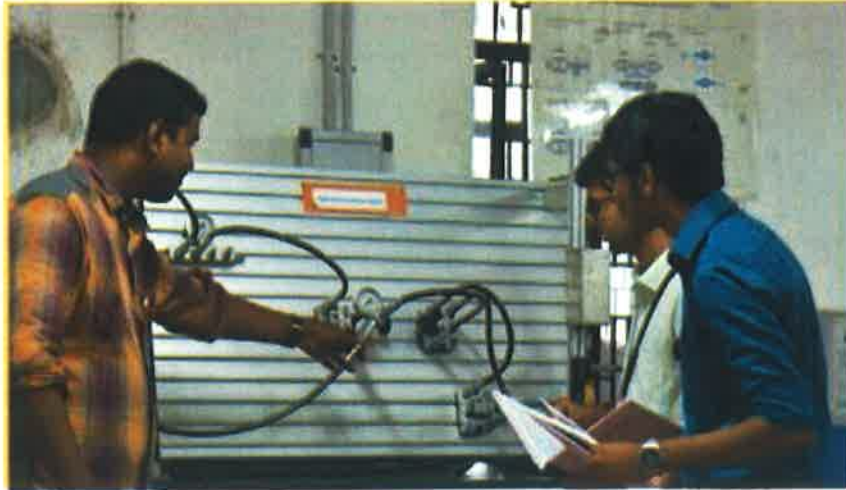
S.No.	NAME OF THE EXPERIMENTS
1	Determination of the Coefficient of discharge of given Orifice meter.
2	Determination of the Coefficient of discharge of given Venturi meter.
3	Calculation of the rate of flow using Rota meter.
4	Determination of friction factor for a given set of pipes.
5	Conducting experiments and drawing the characteristic curves of centrifugal pump / submergible pump.
6	Conducting experiments and drawing the characteristic curves of reciprocating pump.
7	Conducting experiments and drawing the characteristic curves of Gear pump.
8	Conducting experiments and drawing the characteristic curves of Pelton wheel.
9	Conducting experiments and drawing the characteristics curves of Francis turbine.
10	Conducting experiments and drawing the characteristic curves of Kaplan turbine.

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### MECHATRONICS LABORATORY (MECHANICAL LAB)

S.NO	NAME OF THE EXPERIMENT
1	Assembly language programming of 8085 – Addition – Subtraction – Multiplication – Division – Sorting – Code Conversion
2	Stepper motor interface
3	Traffic light interface
4	Speed control of DC motor
5	Study of various types of transducers
6	Study of Hydraulic, Pneumatic and Electro-pneumatic circuits
7	Modelling and analysis of basic Hydraulic, Pneumatic and Electrical circuits using Software
8	Study of PLC and its applications
9	Study of image processing technique.

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## 2.2 INTERNSHIPS/ IN-PLANT TRAINING (2.3.1)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### Internships/ In-plant Training

Academic year 2019-2020 (ODD Sem)

S.No.	Student Name.	Semester	Name of Industry and place	Duration
1.	Anitha.M.E	III	230 KV Guindy GIS substation	06-12-2019 to 10-12-2019
2.	N.Deepak Anand			
3.	Manasha.K.L			
4.	Priyanka Balaji			
5.	Mohammed Nadheem Fazil.M.R.			
6.	Arun prakash.R	III	LAKSHMI MOTORS Pvt limited	03/12/2019 to 10/12/2019
7.	Vipin.B			
8.	Avinash Balajee R.M	III	Umm.in studios	30-11-2019 to 10-12-2019
9.	Boobalan.V			
10.	Chandrasekar.N			
11.	Fredrick Clinton.R			
12.	Dinesh Kumar.V.S			
13.	Jayaraj.T			
14.	Hariharan.J.P			
15.	Kiruthika.S			
16.	Kurapati Sricharan			



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17. Mano.K	III	Asictron Pvt LTD	04-12-2019 to 10-12-2019
18. Naveen.R			
19. Paul Issac.V			
20. Preethiveeraj .R			
21. Sarguru Prasad S			
22. Selvaraj G			
23. Shiva sankar.V			
24. Surya.C			
25. Tamilselvan.G			
26. Tharun A			
27. Vishnu.V			
28. Gokul Krishnan			
29. Hariharan			
30. K R Karthikeyan			
31. Santhosh			
32. Soundar			
33. Srinivas M			
34. Divys S	III	UNIQ technologies	28-11-2019 to 07-12-2019
35. Haritha.J.R			
36. Mohamed Sameera.H			
37. Mohana priya.D			
38. Muthu Bhuvaneshwari			
39. Nithyasree.P			
40. Reshma.X			
41. Shivanthika Sridaran			
42. Sridevi.V			
43. Sruthi.B			
44. Karthikeyan.V	III	Prescot Productions	21-11-2019



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45.	Vignesh V.Bedre			to 10-12-2019
46.	Aadlithya Sai Subramaniam	V	lota automations pvt ltd	12 days
47.	Aakash S			
48.	Balamurugan			
49.	Bala vigneshwar			
50.	Jerin Jack J			
51.	Kabilan S			
52.	Lokesh M			
53.	Nawash shariff.T			
54.	Raj bharath.G			
55.	Sabareesh R			
56.	siva pandian c			
57.	Vidhya Sagar R			
58.	Yogeshwaran A			
59.	Abishek G	V	PT Electrical automation	1 week
60.	Brian Samuel Alfred			
61.	Indhar B			
62.	Nachiappan S			
63.	NARENDER S			
64.	Ponnashok.R			
65.	Saranraj P			
66.	Akshaya.R	V	Missile Ingeniator	1 week
67.	Niranjani B			
68.	Nivedha E			
69.	Subarna A R			
70.	Ayisha M	V	Cloud career	15 days



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			solution	
71.	Balaji S	V	I.P.L Products	10 days
72.	Hari Prasad J			
73.	Nithish Kumar S			
74.	Sathish			
75.	Arunkumar k			
76.	Shankar N A			
77.	Sriraman S			
78.	Dharshini V	V	NBM Power and Construction	13 days
79.	Pavithra S			
80.	Kavya.G			
81.	Diksha H			
82.	Donajai R			
83.	Esther.G			
84.	Sarumathy N			
85.	Shalini D			
86.	Shivani BS			
87.	Sinduja S			
88.	Subhashini D R			
89.	Harini R K	V	TVS-Training and services	1 week
90.	T. Yogalakshmi			
91.	Hemalatha R	V	Power tech controls	15 days
92.	Ishwarya J			
93.	Revathi Reshika R			
94.	Soundharya.I			
95.	Lalith kumar M	V	Sree Subbulakshmi Industries	15 days
96.	Sanjeev M. G			





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Academic year 2019-20 (EVEN sem)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No.	Student Name.	Semester	Name of Industry and place	Duration
1.	Adithya.M	VIII	C&S ELECTRIC	14-12-2019- 07-02-2020
2.	Vinith Raja A			
3.	Yuva Chandrakumar A			
4.	Akshaya P	VIII	TNEB	30-12-2019- 30-03-2020
5.	Amrithavarshini R			
6.	Arunkarthik P	VIII	RASPBERRY SYSTEMS	18/12/19- 24/03/20
7.	Balaji.S			
8.	Guruprasaadh.T.R			
9.	Ashwin Kumar B	VIII	COGNIZANT	14/12/2019- 13/04/2020
10.	Padma Bhushan.G			
11.	Dinesh Raja.J			
12.	Pavithra N D			
13.	Sandhya Mohan			
14.	Santhosh Kumar.S			
15.	Sivarama Krishnan.S			
16.	Varalakshmi.G			
17.	Badrinathan N	VIII	ZOHO	10-12-2019 - 14-07-2020
18.	Mahanya.G.G			
19.	Divya P	VIII	TANGEDCO(TNEB)	30-12-2019 - 30-03-2020
20.	Gomathi.N			
21.	Keerthana S			
22.	Sasirekha S			
23.	Jeyavardhany.P			



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24.	Ramyam.M	VIII	NSIC LTD.,	02/01/2020 – 04/03/2020
25.	Sri Ratchanya K			
26.	Krishnamurthy S	VIII	CORNET TECHNOLOGY INDIA	06-01-2020 - 18-03-2020
27.	Madhu Kumaarappan A			
28.	Thirunavukkarasu.D			
29.	Mithun Raj R	VIII	SRI AMMAN SILVER WORKS	23-12-2019- 30-03-2020
30.	Sasikumar			
31.	Muthu Mano.S	VIII	FORD	28-01-2020- to 18-03-2020
32.	Rahul.M			
33.	Rebin.D			
34.	Sankari.S	VIII	INNOVATIVE ENGINEERING SOLUTIONS	06-01-2020- 18-03-2020
35.	Vanitha.V			
36.	Sangeetha			
37.	Pooja A	VIII	VI MICROSYSTEMS PVT. LTD.,	20-01-2020- 18-03-2020
38.	Shwetha.K.K			
39.	Surendran.V			
40.	Vignesh Kumar M			
41.	Viswanath S			
42.	Ranjith kumar			
43.	Rathna Rajkumar			
44.	Vivek			
45.	subhiksha			
46.	Sowmiya.M	VIII	TNEB	05-02-2020- 04-05-2020
47.	Sulthana Parveen.A			



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Academic year 2020-21 (Odd Sem)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S. N O.	REG NO	NAME	COMPANY'S DETAILS	Periods
1	311519105001	AAMIR WASIF H	DLK Career Development	15 days
2	311519105002	ABRAR AHMED C S	Uniq Technologies	15days
3	311519105003	AFRA TAJ.A	Uniq Technologies	15 days
4	311519105004	AJAI.V	Uniq Technologies	15days
5	311519105005	AKSHAYA SRI.A	UNIQ TECHNOLOGIES	15DAYS
6	311519105006	BAVYA.K	UNIQ TECHNOLOGIES	15DAYS
7	311519105007	DEEPAN.R	UNIQ TECHNOLOGIES	15DAYS
8	311519105008	DEVAGURU.G	KAASHIV INFOTECH	10 DAYS
9	311519105009	HARESZ JOSE O	Ether Infotech	15 Days
10	311519105010	ISWARYA.K.R	DLK CAREERDevelopment	15days
11	311519105011	JEEVANEETHI.R	UNIQ TECHNOLOGIES	15DAYS
12	311519105012	JOSHNA.J	missile ingeniator	10 days
13	311519105013	KARTHIK N.S	DLK Career Development	15 days
14	311519105014	KARTHIKEYAN.S	UNIQ TECHNOLOGIES	15DAYS
15	311519105015	KEERTHIKA.R	UNIQ TECHNOLOGIES	15DAYS
16	311519105016	KESAVI K	DLK Career development	15 days
17	311519105017	KIRUTHIKA T	DLK Career Development	15 days
18	311519105018	MADHAV SRI KRISHNA.S	UNIQ TECHNOLOGIES	15days
19	311519105019	MANOHARAN K	missile ingeniator	10 days

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20	311519105020	MITHYA.E	KAASHIV INFOTECH	10 days
21	311519105021	MOHAMEED SAMSUDEEN	UNIQ TECHNOLOGIES	15 Days
22	311519105022	NARESH KUMAR B	UNIQ TECHNOLOGIES	10 days
23	311519105023	NAVEEN S	DLK CAREERDevelopment	15 days
24	311519105024	NITHIYASRI.G	UNIQ TECHNOLOGIES	15 DAYS
25	311519105025	PRATHEEP.S	UNIQ TECHNOLOGIES	15 days
27	311519105027	RAMASUBRAMANIA N.V	missile ingeniator	10 days
28	311519105028	RITHISHA.R	KAASHIV INFOTECH	10days
29	311519105029	SAKTHIVEL.H	DLK CAREERDevelopment	15 days
31	311519105031	SANJAY.A	uniq technologies	15 days
32	311519105032	SARAVANAKUMAR .M	UNIQ TECHNOLOGIES	15DAYS
33	311519105033	SASIKANTH.R	Accenture	15 days
34	311519105034	SNEGA J.A	DLK Career development	15 days
35	311519105035	SNEHA.R	Kaashiv Info Tech	10 days
36	311519105036	SREEVARDHINI.R	Kaashiv infotech	10 days
37	311519105037	SRIVATSAN GP	kaashiv infotech	10 days
38	311519105038	SWETHA.U	KAASHIV INFOTECH	10 days
39	311519105039	VIGNESH .S.S	Kaashiv infoTech	10days
40	311519105040	YAZHINI.G.S	UNIQ TECHNOLOGIES	15days
41	311519105041	YOGASRI.S	UNIQ TECHNOLOGIES	15days
42	311519105301	KR. ABISHEK	DLK CAREERDevelopment	15days



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43	311519105302	Adith Sreenivas	DLK CAREERDevelopment	15 days
44	311519105303	JOACHIM PETER RAYAN.T	DLK Career Development	15 weeks
45	311519105304	RAGHAVAN	DLK CAREERDevelopment	15 days
46	311519105305	VIGNESH	DLK CAREERDevelopment	15 days

Academic year 2020-21 (Even Sem)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.NO.	REG NO	NAME OF THE STUDENT	COMPANY'S NAME	DURATION
1	311519105001	B.H.Aamir wasif	GUVI	2 weeks
2	311519105002	C.S. Abrar Ahamed	GeeksforGeeks	.8 weeks
3	311519105003	A.Afra Taj	IEEE (SB PIT)	2 weeks
4	311519105004	V.Ajai	GeeksforGeeks	.8 weeks
5	311519105005	Akshaya sri.A	GeeksforGeeks	.8 weeks
6	311519105006	Bavya.K	GeeksforGeeks	8 weeks
7	311519105007	Deepan.R	GeeksforGeeks	8weeks
8	311519105008	Devaguru.G	GeeksforGeeks	8 weeks
9	311519105009	O. Haresz Jose	GreeksforGeeks	8 weeks
10	311519105010	K.R.Iswarya	GreeksforGeeks	8 weeks
11	311519105011	R.Jeevaneethi	GeeksforGeeks	8weeks
12	311519105012	J. Joshna	IEEE (SB-PIT)	15 days
13	311519105013	N.S.Karthik	GeeksforGeeks	8 weeks



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14	311519105014	S.Karthikeyan	GeeksforGeeks	8 weeks
15	311519105015	R.Keerthika	GeeksforGeeks	8 weeks
16	311519105016	K.Kesavi	GeeksforGeeks	8 weeks
17	311519105017	T.Kiruthika	GeeksforGeeks	8 weeks
18	311519105018	S.Madhav Sri Krishna	GeeksforGeeks	8 weeks
19	311519105019	K.Manoharan	Geeksforgeeks	12 weeks
20	311519105020	E.Mithya	Barola Technologies	15 Days
21	311519105021	M.Mohammed Samsudeen	Geeksforgeeks	8 weeks
22	311519105022	Naresh	Geeksforgeeks	8 weeks
23	311519105023	Naveen.S	GeeksforGeeks	8weeks
24	311519105024	G.Nithiyasri	GeeksforGeeks	8 weeks
25	311519105025	S.Pratheep	GeeksforGeeks	8 weeks
26	311519105026	Raja. V	GeeksforGeeks	8 weeks
27	311519105027	V.Rama Subramanian	GeeksforGeeks	8 Weeks
28	311519105028	R.Rithisha	GeeksforGeeks	8 weeks
29	311519105029	H.Sakthivel	GeeksforGeeks	8 Weeks
30	311519105030	S. Sandeep	GeeksforGeeks	8 Weeks
31	311519105031	Sanjay. A	Barola Technologies	15 Days
32	311519105032	M.Saravana kumar	GeeksforGeeks	8 weeks
33	311519105033	R. Sasikanth	GeeksforGeeks	8 weeks
34	311519105034	J.A.Snega	GeeksforGeeks	8 weeks
35	311519105035	Sneha.R	GeeksforGeeks	8 weeks
36	311519105036	R.Sreevardhini	Barola Technologies	15 Days
37	311519105037	Srivatsan G.P	Barola Technologies	15 Days
38	311519105038	Swetha.U	GeeksforGeeks	8 weeks



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39	311519105039	Vignesh.S.S	Barola Technologies	15 Days
40	311519105040	G.S.Yazhini	GeeksforGeeks	8 weeks
41	311519105041	S.Yogasri	GeeksforGeeks	8weeks
42	311519105301	Adith Sreenivas	Geeksforgeeks	8 weeks
43	311519105302	K.R. Abishek	GeeksforGeeks	8weeks
44	311519105303	Joachim Peter Rayan T	Barola Technologies	15 Days
45	311519105304	Raghavan	GeeksforGeeks	8 weeks
46	311519105305	Vignesh	GeeksforGeeks	8 weeks



### INTERNSHIP CERTIFICATE (EEE Student)

#### (2.3.1 Experiential Learning)

*[Signature]*



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GSTIN : 33AABPC3774A1ZG

## POWERTECH CONTROLS

Office : No. 55, M.C. Flats, Anjugam Nagar, 11<sup>th</sup> Street, Ashok Nagar, Chennai - 600 083.  
Phone : 044 - 22252377, Mobile : 98410 23878 / 94441 55175 / 99402 87405  
E-mail : [sales@powertechups.in](mailto:sales@powertechups.in)/web mail, [service@powertechups.in](mailto:service@powertechups.in)/web mail  
Website : [www.powertechups.in](http://www.powertechups.in)

Date : .....

Date: 06.12.2019

### CERTIFICATE

This is to certify that ISHWARYA .J ( 311517105019) is studying ELECTRICALS AND ELECTRONICS ENGINEERING (III Year) in MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE, CHENNAI-24, has completed an inplant training from 27.11.2019 to 06.12.2019 Satisfactorily in POWER TECH CONTROLS.

I hereby certify performance was good to my knowledge

Thanks & Regards

C. KASI

PROPRIETOR



**IN-PLANT TRAINING CERTIFICATE (EEE Student)**

**(2.3.1 Experiential Learning)**

PRINCIPAL

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Website : [www.msec.edu.in](http://www.msec.edu.in)

## 2.3 INDUSTRIAL VISITS (2.3.1 Experiential Learning)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### INDUSTRIAL VISIT

##### ODD SEM DETAILS 2016-17:

S.no	BATCH	Sem	Date	Details	Strength
1.	2015-2019	III	22/07/16	Taramani Substation	64
2.	2014-2018	V	22/08/16	NLC	61

##### EVEN SEM DETAILS 2016-2017 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2015-2019	IV	10/02/17	Bhavni, Kalpakkam	64
2.	2014-2018	VI	11/02/17	Easun MR Pondicherry	56
3	2013-17	VIII	10/3/17	ISRO	59
	2014-18	VI			59

##### ODD SEM DETAILS 2017-2018 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2014-2018	VII	07/07/17	BHAVINI, KALPAKKAM	61
2	2015-2019	V	22/07/17	Sunguvarchathiram SS	64

##### EVEN SEM DETAILS 2017-2018 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2016-2020	IV	16/12/17	NCTPS, ENNORE	58



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	2015-19	V	11/01/18	Easun MR Pondicherry	65
	2016-2020	IV	24/1/18	Sholinganallur substation	58
	2014-2018	viii	17/3/2018	Sholinganallur substation	61

### ODD SEM DETAILS 2018-2019 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2016-2020	V	20.07.18	BHAVINI, KALPAKKAM	57
2.	2017-2021	III	04.08.2018	VI MICROSYSTEMS, Chennai	58
3.	2015-2019	VII	05.10.2018	PANICKKER SWITCHGEAR	58

### EVEN SEM DETAILS 2018-2019 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2016-2020	VI	07.03.2019	Easun MR ,PONDICHERRY	58
2.	2017-2021	IV	18.02.2019	440V, Sunguvarchatiram,SS	59

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### ODD SEM DETAILS 2019-2020 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2016-2020	VII	22.08.19	PANICKKER SWITCHGEAR	55
2.	2017-2021	V	19.08.2019	Easun MR , THIRUNINRAVUR	56
3.	2018-2022	III	10.08.2019	VI MICROSYSTEMS, Chennai	47

### EVEN SEM DETAILS 2019-2020 :

S.no	BATCH	Sem	Date	Details	Strength
1.	2017-2021	VI	8.1.2020	BHAVINI, Kalpakkam	57
2.	2018-2022	IV	7.01.2020	NCTPS	50
3.	2019-2023	II	8.2.2020	ICF	41



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



**Place Visited:** North Chennai Thermal Power Station, NCTPS (EEE Students)

**Date of Visited:** 07.01.2020

**(2.3.1 Experiential Learning)**

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**Place Visited:** BHAVINI Kalpakkam Atomic Power Station (EEE Students)

**Date of Visited:** 08.01.2020

**(2.3.1 Experiential Learning)**

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**Place Visited:** BHAVINI Kalpakkam Atomic Power Station (EEE Students)

**Date of Visited:** 08.02.2020

**(2.3.1 Experiential Learning)**



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**Place Visited:** PANICKER SWITCHGEAR (EEE Students)

**Date of Visited:** 22.08.2019

**(2.3.1 Experiential Learning)**

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**Place of visited:** EASUN MR Tap Changers Pvt.Ltd.,Chennai. (IV year Mechanical Students)

**Date:** 09.02.2019



**Place of visited:** North Chennai Thermal Power Plant, Chennai. (II year Mechanical Students)

**Date:** 05.01.2019 (2.3.1 Experiential Learning)





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## 2.4 PROJECTS (2.3.1 Experiential Learning)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### PROJECT LIST 2016-2020 BATCH

BAT CH NO	NAME	TITLE	COMPANY	INTERNAL GUIDE	EXTERNAL GUIDE
1	ADITHYA. M VINITH RAJA. A YUVA CHANDRA KUMAR	REAL TIME WATER FLOW MANAGEMENT AND CONTROL USING IOT	C&SELECTRICS PVT.LTD	S UMA ASSISTANT PROFESSOR	EZHIL PROJECT ENGINEER 9962489551
2	N. GOMATHI P. AKSHAYA S. SASIREKHA	OPTIMIZATION OF SHORT TERM LOAD FORECASTINGMODEL USING GENETIC FUZZY LOGIC	TNEB, MOUNT ROAD	K RAJESHWARI ASSISTANT PROFESSOR	SENTHIL KUMAR AEEE/TNSLD C 9176877036
3	M. RAMYA A. ALMAS SANDHYA MOHAN S	HYBRID ENERGY POWERED VEHICLE PROTOTYPE	NSIC	S UMA ASSISTANT PROFESSOR	EZHIL ARASAN TECHNICAL HEAD 9551567455
4	KEERTHANA S AMRITHA VARSHINI P. DIVYA	DESIGN AND SIMULATION OF PV BATTERY SYSTEM	TNEB, MOUNT ROAD	S SIVA SUBRAMANIYAN ASSISTANT PROFESSOR	S.V SOWMIA NARAYANAN AE

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5	A B ANASHRITHA N. D. PAVITHRA S. SANJANA	SAFE LOCAL NAVIGATION FOR VISUALLY IMPARED USERS WITH A TIME- OF-FLIGHT & HEPTIC FEEDBACK DEVICE	IN-HOUSE	S SIVA SUBRAMANIYAN  ASSISTANT PROFESSOR	
6	GURUPRASADH P S. BALAJI ARUN KARTHIK P	REAL TIME OBJECT DETECTION USING RASPERRY PI	RASPERRY SYSTEMS	S SOUNDARA BALA  ASSISTANT PROFESSOR	HARI
7	A MADHU KUMAARAPPAN S KRISHNA MURTHY D THIRUNAVAKARASU	EFFICIENT INTELLECTUAL SOLAR CHARGING POWER PATH IN UNMANED APPLICATION	CORNET	S MANIKANDAN  ASSISTANT PROFESSOR	MOHAMMED  044- 49024500/08
8	ASHWIN KUMAR B AZAR MOHAMMED J SANJAY KUMAR P RATHA RAJKUMAR M	FOUR SWITCH CASCADE BUCK- BOOST CONVERTER	VI MICROSYSTEMS	S. SOUNDARA BALA  ASSISTANT PROFESSOR	S SURESH  PROJECT MANAGER  9444061857
9	G.S.BALAJI S. RAHUL RAJSURYA. R PADMABUSHAN. G	TRAFFIC SIGNAL OPTIMISATION USING PSO	IN-HOUSE	S.SIVA SUBRAMANIYAN  ASSISTANT PROFESSOR	
10	SWETHA. A	DETECTION OF COTTON LEAF	IN-HOUSE	T VANATHY  ASSISTANT PROFESSOR	



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	SANTHOSH KUMAR.S VENKAT ANAMIKA REDDY	DISEASE USING MACHINE LEARNING			
11	R. MITHUN RAJ G. G. MAHANYA SASI KUMAR	ALL IN ONE CNC & CONVERSION OF ROTATORY TO HAMMERING PROCESS	SRI AMMAN SILVER WORKS	G.GAYATHRI ASSISTANT PROFESSOR	B.RENGARAJ 9840682868
12	MUTHU MANO REBIN D RAHUL M	AUTOMATIVE BATTERY WEAR ESTIMATION	FORD	S. SOUNDARA BALA ASSISTANT PROFESSOR	
13	SIVA RAMA KRISHNAN SURENDRAN V VIVEK V	PV BATTERY CHARGER USING L3C RESONANT CONVERTER	VI MICROSYSTEMS	K RAJESHWARI ASSISTANT PROFESSOR	S SURESH PROJECT MANAGER 9444061857
14	POOJA A SHWETHA KK SUBHIKSHA KADHIRAVAN	A 13 LEVEL K TYPE MODULE WITH TWO DC SOURCES FOR MLI	VI MICROSYSTEMS	K RAJESHWARI ASSISTANT PROFESSOR	S SURESH PROJECT MANAGER 9444061857
15	SULTHANA PARVEEN SOWMYA RAMYA LAKSHMI	ANFIS BASED MPPT CONTROLLER FOR DFIG BASED WECS	TNGEDCO	P PARASURAMAN ASSISTANT PROFESSOR	
16	SRI RATCHANYA VARALAKSHMI JEYA VARDHINI	VISIBLE LIGHT COMMUNICATION FOR VIDEO TRANSMISSION	NSIC	N V HARITHA ASSISTANT PROFESSOR	EZHIL ARASAN TECHNICAL HEAD



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					9551567455
17	VANITHA SANGEETHA SHANKARI	SIMULTANEOUS POWER & DATA TRANSFER FOR ELECTRIC VEHICLE	INNOVATIVE ENGINEERING	K BHASKAR ASSISTANT PROFESSOR	PARAMESHW ARAN 9790055794
18	S. VISWANATH M. VIGNESH KUMAR RANJITH KUMAR DINESH RAJA	SINGLE SWITCH DC- DC CONVERTER FOR ELECTRIC VEHICLE	VI MICROSYSTEMS	S UMA ASSISTANT PROFESSOR	
19	BADRINATHAN	MEDI-ASSIST RELIABLE SYSTEM USING IOT	IN-HOUSE	K RAJESHWARI ASSISTANT PROFESSOR	

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Rajiv Gandhi Memorial Telecom Training Centre  
Tamilnadu Circle, Chennai - 600 016.

**CERTIFICATE**

This is to certify that Mr /Ms. ABINAYA.P, B.E (EEE)  
..... MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE  
..... studying / working in .....  
..... CHENNAI .....

has successfully completed ..... Internship cum Project on 'TRANSFORMER MONITORING AND CONTROLLING USING  
..... IOT .....

during the period ..... JAN2018 to MAR2018 .....

His/Her performance during the period is ..... Excellent .....

Place : Chennai-16.  
Date : 09.04.2018

  
Principal  
RGM TTC, BSNL

**Project Certificate (EEE Student)**  
**(2.3.1 Experiential Learning)**



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एन एस आई सी  
**NSIC**  
ISO 9001:2008

No. P129/02

**राष्ट्रीय लघु उद्योग निगम लिमिटेड**  
**NATIONAL SMALL INDUSTRIES CORPORATION LIMITED**  
(A Govt. of India Enterprise)

**NSIC - TECHNICAL SERVICES CENTRE,**  
Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032

**CERTIFICATE**

This is to certify that Mr./Ms. **G.SWETAA** student of Meenakshi Sundararajan Engineering College, Chennai, has completed the project entitled **"GREEN RADIO TECHNOLOGY FOR MOBILE COMMUNICATION"** at our organization during the period from 09-02-2018 to 05-03-2018 for partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering (EEE).

Batch No : 129  
Date : 19.03.2018



*S. N. K.*  
Chief Manager  
COURSE CO-ORDINATOR

*A. J.*  
CENTRE HEAD

**Project Certificate (EEE Student)**

**(2.3.1 Experiential Learning)**

*J. S. S.*



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### 3.0 PARTICIPATIVE LEARNING (2.3.1)

### 3.1 GUEST LECTURES

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### GUEST LECTURE ODD SEM (2016-2017)

Sl.no.	Date	Seminar topics	Resource person
12.	19.7.16	INTRODUCTION TO ROBOTICS	Mr Puneet Mr Parthiban LEMA LABS
13	23.7.16	PLC SCADA	Srinivasan Narayanan TRIMAK
14	26.7.16	INDUSTRIAL AUTOMATION	Parasuraman AGIIT

#### GUEST LECTURE EVEN SEM (2016-2017)

Sl.no.	Date	Seminar topics	Year/ no of students	Resource person
1	18/01/2017	Significance of Industrial Automation	III/ 48	Ganesh babu AGIIT, Chennai
2	14/02/2017	Product Design using Embedded system	II/60	Ganapathy R EPR Labs
3	27/02/2017	AutoCAD For Electrical Engineering	II/60	P.Balamurugan Solution Engineer Petricore Technologies and Engg Pvt Ltd



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### GUEST LECTURE ODD SEM (2017-2018)

Sl.no.	Date	Seminar topics	Year/ no of students	Resource person
1	08/07/2017	Industrial Automation	III/ 62	Mr. Bhaskara Pradeep Academic Head IPCS Automation Chennai
2	10/07/2017	ARDUINO	II/49	Kalyana Sundaresan Vanitha.V Innovative Engg
3	14/07/2017	Entrepreneurship	IV/60	Mr.Surya prakash ETSsystems

### GUEST LECTURE EVEN SEM (2017-2018)

Sl.no.	Date	Seminar topics	Year/ no of students	Resource person
1	21/12/2017	IOT	III/ 65	Mr. Srinivasan Team Leader Asictron Control Systems  Chennai
2	02/01/2018	Significance of Automation Tools	II/58	Axis Global Institute of Industrial Training

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				(AGIIT)
3	06/01/2018	Recent trends on cloud computing	IV/61	Mr S.Babu Software Engineer HCL

### GUEST LECTURE ODD SEM (2018-2019)

Sl.no.	Date	Seminar topics	Year/ no of students	Resource person
1	07/07/2018	Electrical and Electronics Calibration and Automation	IV/ 56	Mrs.Harshini Ramachandran The Associate project manager Robert Bosch Ltd Bangalore.
2	07/09/2018	Electric vehicles and its interaction with power grid"	III /58	Mr.R.V Krishna Kumar  Research Associate  Universiti Tenaga Nasional, Malaysia
3.	25/09/2018	INDUSTRIAL AUTOMATION	II/54	Naresh karthik

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### GUEST LECTURE EVEN SEM (2018-2019)

Sl.no.	Date	Seminar topics	Year/ no of students	Resource person
1	02.02.2019	TRANSMISSION & DISTRIBUTION	II YEAR / 59	Mr. MURUGESAN, Retired Assistant Executive Engineer, TNEB,
2	02.02.2019	SMART GRID	III YEAR / 58	Mr. Gurunandh V. S Chennai.
3.	08.2.19	Power electronics	IV year	Mr Parameshwaran

### GUEST LECTURE ODD SEM (2019-2020)

Sl.no.	Date	Seminar topics	Year/ no of students	Resource person
1	22.06.2019	"Career Guidance"	IV YEAR / 58	Ms .Deepa, Member Technical Staff ZOHOCORP
2	05.07.2019	Career guidance"	Iv year/58	Mr.Arindam Mandal CO FOUNDER VEGANZA
3	24.07.2019	EVOLUTION OF FACTS TECHNOLOGY	II year/50 III year/56 Iv year/58	Mr. Venkateswarllu Pabbisetty Senior Engineer ABB Global



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				Industries & Services Pvt Ltd.
4.	03.08.2019	"Career guidance"	Iv year/58	Ms. Nisha B Content Writer ZOHO CORP LTD

### GUEST LECTURE EVEN SEM (2019-2020)

Sl.no	Date	Seminar topics	Year/ no of students	Resource person
1	8.12.2020 To 10.12.2020 0	Electrical Vehicle Design Using MATLAB Simulink.	II/50 III/57 IV/58	Dr. N. Kumarappan Chairman IEEE Madras Section
2	13.02.2020 0	"Career guidance"	II/50 III/57 IV/58	Praveen Radhakrishnan, Squadron Leader, Indian Air Force.

### GUEST LECTURE ODD SEM (2020-2021)

Sl.no	Date	Seminar topics	Year/ no of students	Resource person
1	29/08/2020	Advancements in Power System	II/46 III/49	Mr. Lakshminarayanan Hitachi ABB Powergrid

  
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				Chennai
2	9/11/2020	Electric Bus Development	II/46 III/49 IV/57	Shri. Nandhkumar Anantharaman Independent Consultant On EV Energy Management Solution & Aggregates
3.	11/11/2020	Secondary Usages of Batteries from EV	II/46 III/49 IV/57	Shri. N. Muthaiah Divisional Manager, Corporate Strategy and Planing, Ashok Leyland, Chennai

### GUEST LECTURE EVEN SEM (2020-2021)

Sl.no	Date	Seminar topics	Year/ no of students	Resource person
1	27.03.2021	Importance of Transmission and Distribution System with Grid Management	II/46	MR.S. Senthil Kumar Assistant Executive Engineer
2	28.05.2021	Bio Medical Instrumentation	IV/57	Dr. Joshitha, KL University, Andra



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				pradesh
3.	5.06.2021	Motors used for EV application- Design Aspects(workshop)	II/46 III/49 IV/57	Dr.A. Deepak, Electromagnetic Design Engineer, ePropelled System pvt.ltd, Chennai

### GUEST LECTURE ODD SEM (2021-2022)

Sl.no	Date	Seminar topics	Year/ no of students	Resource person
1	20/12/2021	Advance Concepts on Voltage Regulation & Opportunities in R&D	II/50 III/46 IV/49	Mr.R.PRAKASH GENERAL MANAGER, EASUN MR, CHENNAI

### DEPARTMENT OF CIVIL ENGINEERING

<u>Guest lecture</u>			
<u>YEAR</u>	<u>Name of the workshops / seminars /conferences</u>	<u>Number of Participants</u>	<u>Date (From -to)</u>
2019-20	Guest lecture on applications in steel structure	44	02-01-2020
2019-20	Guest lecture on strength of materials	41	02-01-2020
2019-20	Guest lecture on Water Sector In India	150	30/08/2019



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2019-20	Guest lecture on introduction to building Information Modelling	150	09-05-2019
2018-19	Guest Lecture on Fundamentals in Foundation Engineering	65	28/09/2018
2018-19	Guest Lecture Research on Pesticide Treatment in New Zealand	175	24/09/2018
2018-19	Guest lecture on coastal security and ocean engineering application	175	26/06/2018
2017-18	Guest lecture on Introduction to Water & Wastewater Technologies	200	20/09/2017
2017-18	Guest lecture on Building Application of multi criteria analysis to select the best highway alignment	200	02-03-2018
2016-17	Guest lecture on Green Building	200	24/08/2016
2016-17	Guest lecture on Faster cycle of slabs using PT	200	15/02/2017

### Live webinar

2020-21	Live webinar on Geotechnical and Terra mechanics Perspective	156	25/7/2020
2020-21	Faculty Enhancement Webinar on Excellence in Civil Engineering	160	29/7/2020 to 02/07/2020



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Topic: ELECTRIC VEHICLES AND ITS INTERACTION WITH POWER GRIDS**

**Date: 07.09.2018**

**(2.3.1 Participative Learning)**

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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Topic:** ELECTRICAL AND ELECTRONICS CALIBRATION AND AUTOMATION

**Date:** 07.07.2018

**(2.3.1 Participative Learning)**

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Topic: EVOLUTION OF FACTS TECHNOLOGY**

**Date: 24.07.2019**

**(2.3.1 Participative Learning)**

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Topic: EVOLUTION OF FACTS TECHNOLOGY

Date: 24.07.2019

(2.3.1 Participative Learning)

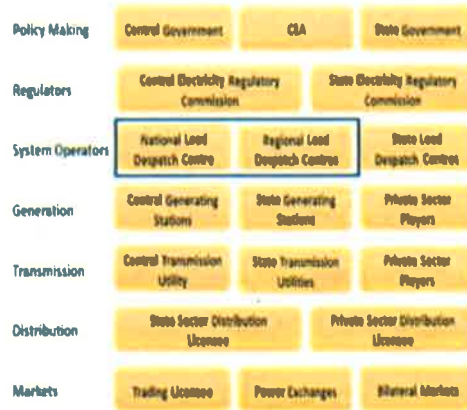
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## Focal point of Indian power sector



<http://www.forumofregulators.gov.in/Data/Reports/FOR%20Report%20CABIL.pdf>

**Topic: Importance of Transmission and Distribution System with Grid Management (Online)**

**Date: 27.03.2021**

**(2.3.1 Participative Learning)**

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### 3.2 WORKSHOPS / WEBINARS (2.3.1 Participative Learning)



MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE  
Kodambakkam , Chennai  
( Accredited by NBA for programs Applied )



Dept of EEE organises

## National Level Workshop on ELECTRIC VEHICLE DESIGN USING MATLAB SIMULINK

Reg Fee:Rs. 200

Date : 8th - 10th December 2020

Time : 10:00 -11:30AM

Reg Link : <https://cutt.ly/msec-ev-workshop>



 **Pantech e Learning**  
DIGITAL LEARNING SIMPLIFIED  
[www.pantechlearning.com](http://www.pantechlearning.com)

**Convener**  
Mrs.S.Soundara Bala  
HOD-EEE / MSEC

**Co Ordinators**  
S.Manikandan, AP - EEE, MSEC  
M: 98403 64979  
G.Gayathri, AP - EEE, MSEC  
K.Bhaaskar, AP - EEE, MSEC



Workshop Organized by EEE Department

Date: 8 & 9<sup>th</sup> December 2020


(2.3.1 Participative Learning)

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**Department of**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

**One-day, Faculty Enhancement Webinar (FEW) - Series 2**  
**ELECTRICAL VEHICLE TECHNOLOGY AND INDUSTRY MODERNIZATION**

**E-VEHICLES**  
Timing : 10:30 am to 11:30 am




**Mr. Ganesh Sankaran**  
B.E, M.E (CAD), PGDBA (Marketing)  
Chief Program Engineer - Programs  
Ford Motor Company Limited, Chennai  
20+ Years of Automotive Experience



**Mr. Ramakrishnan Sivasubramanian**  
B.E (EEE), MBA (Operations & Supply Chain Mgmt.)  
Senior Engineer - Programs, Product Development  
Ford Motor Company Limited, Chennai  
8+ Years of Automotive Experience

**INDUSTRY 4.0**  
Timing : 1:30 pm to 3:00 pm



**Mr. Azhagiri Govindasamy**  
Consulting Director  
PMC Global Systems  
Chennai

**CHIEF PATRON**  
Dr. K.S. Lakshmi  
Correspondent, MSEC

**PATRON**  
Dr. K.S. Babaj  
Secretary, MSEC  
Mr. N. Sreekanth  
Director, MSEC

**ADVISORY COMMITTEE**  
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Principal MSEC  
Dr. K. Umarani  
Dean Academics, MSEC

**CONVENOR**  
Mrs. S. Soundara Bala  
HOD/EEE



**CO-CONVENOR**  
Mrs. K. Rajeswari  
Associate Professor

**CO-ORDINATORS**  
Mrs. N.V. Haritha  
Assistant Professor  
Mrs. T. Vanathi  
Assistant Professor  
Mr. P. Parasuraman  
Assistant Professor

<https://forms.gle/VVBBaY4DUTty6kbY9>

Date : 14th Sep' 2020

E-Certificate will be provided for all the participants.



**Webinar Organized by EEE Department**

**(2.3.1 Participative Learning)**

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
organizes  
**National level Workshop**  
on  
**“Motors used for EV applications – Design aspects”**

**Resource person:**  
**Dr.A.Deepak**  
Electromagnetic Design Engineer  
ePropelled systems pvt ltd, Chennai.

**05-06-21**  
**SATURDAY**  
10:00 AM-12:00 NOON

**CO-ORDINATORS**  
Dr.K.Kumarasamy  
Associate Professor  
9942940540  
Mr.P.PARASURAMAN  
Assistant Professor  
99443 54035

**zoom** Meeting ID: 885 2803 1717  
Password: ZjRv2r  
Registration link: <https://forms.gle/qSn8XUwMptbfQsaK9>

**Dr.K.S.BABAI**      **Dr.P.K.SURESH**      **Dr.K.UMARANI**      **Mrs.S.SOUNDARA BALA**  
**SECRETARY**      **PRINCIPAL**      **DEAN ACADEMICS**      **HOD-EEE**



Workshop Organized by EEE Department

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### 3.3 TECHNICAL SEMINARS (2.3.1 Participative Learning)

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### ONE DAY TECHNICAL SEMINAR

#### ONE DAY TECHNICAL SEMINAR (2016-2017)(EEE)

Sl.no.	Date	Seminar topics	Resource person
1	30/01/2017	Industry 4.0	Mr. C.V. GOWRI SANKAR (NIQR)
			Mr. Pandurangan (NIQR)
			Dr.V.M.Gunasekaran. (NIQR)

#### ONE DAY TECHNICAL SEMINAR (2017-2018)

Sl.no.	Date	Seminar topics	Resource person
1	19/01/2018	Cloud Technology & Architecture, Machine Learning And ArtificialIntelligence	Mr.M.Karthick NIITLimited,Chennai
		Internet Of Things	Mr.Kalyana Sundaresun Innovative Engineering Solutions,Chennai
		Nano Technology	Dr.C.GopalaKrishnan SRM University, Kattankulathur, chennai



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### ONE DAY TECHNICAL SEMINAR (2018-2019)

Sl.no	Date	Seminar topics	Resource person
1	18/01/2019	OPERATION AND DESIGN OF THERMAL POWER PLANT	Er. K VIGNESWARAN SENIOR ENGINEER POWER PROJECTS
		SELF HEALING IN POWER SYSTEM	Dr. J.BALAMURUGAN ASSISTANT EXECUTIVE ENGINEER, TAMIL NADU ELECTRICITY BOARD, CHENNAI.

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## DEPARTMENT OF CIVIL ENGINEERING

<u>Technical seminar</u>			
2019-20	Project Management: The Human and Technical View	122	25/1/2020
2018-19	Preventive measures of concrete in construction	186	28/2/2019
2018-19	Introduction of GPS and its Application	188	19/1/2019
2017-18	Cultural Heritage and Monument Structures- Conservation and Protection	194	02-05-2018
2016-17	Geo Technical Exploration - Practice & Application	205	28/1/2017

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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Topic: Industry 4.0

Date: 30/01/2017

(2.3.1 Participative Learning)

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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Topic: Industry 4.0**

**Date: 30/01/2017**

**(2.3.1 Participative Learning)**

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Topic: OPERATION AND DESIGN OF THERMAL POWER PLANT**

**Date: 18/01/2019**

**(2.3.1 Participative Learning)**

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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Topic: Digital Signal Processing (Seminar given by Student)

Date: 17.09.2019

(2.3.1 Participative Learning)

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### 3.4 ENTREPRENEURSHIP (2.3.1 Participative Learning)

#### ENTREPRENEURSHIP DEVELOPMENT CELL

##### List of E-CELL Activity (2020-2021)

S. NO	NAME OF THE EVENT	DATE	NO. OF PARTICIPANTS	VENUE	GUEST
1.	JOURNEY OF AN ENTREPRENEUR	22.06.2020	250	Online mode	Mr.Muthiahpillai, CEO Bits computer systems Chairman RECT Polytechnic college
2.	DRAW YOUR OWN RAINBOW	13.03.2021	300	Online mode	Mr.L.Ramanathan, Managing director, Sri vinayaga screens, Madurai
3.	LEGAL AND ETHICAL STEPS AND EXPERIENCES IN AN ENTREPRENEURIAL START UP	17.03.2021	300	Online mode	S.V.Suraj Sundara Shankar, Managing Partner, M/S S.V.S Foods

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### DRAW YOUR OWN RAINBOW

Name of the event	"DRAW YOUR OWN RAINBOW"
Date of the event	13 MARCH 2021
Location of the event	MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE (online mode)
Number of person attended	300+
Speaker	Mr L.RAMANATHAN MD,SREE VINAYAGA SCREENS MADURAI

ON MARCH 13 2021 MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE IIC CELL UNDER THE AEGIS OF MINISTRY OF EDUCATION, AICTE and ENTREPRENEURSHIP DEVELOPMENT CELL CONDUCTED SEMINAR ON "DRAW YOUR OWN RAINBOW",BY SPEAKER Mr L.RAMANATHAN TO EDUCATE STUDENTS ABOUT ENTREPRENEURSHIP AND HOW IT CAN BE CHOSED AS AN CAREER PATH.THE EVENT WAS CONDUCTED ONLINE WITH ENTHUSIASTIC 300+ STUDENTS.THE SPEAKER SPOKE ABOUT HIS JOURNEY AND OBSTACLES HE FACED AND HOW HE OVERCAME THEM TO BECOME A SUCCESSFUL ENTREPRENEUR.THE STUDENTS INTERACTED AND RESOLVED THEIR QUERIES.THE SESSION SIMULATED AN KEEN INTEREST AMONG STUDENTS AND OPENED VARIOUS DOORS FOR THEM TO EXPLORE.



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*Dr. K.S. Babal*

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### FEEDBACK

A webinar was held on 13th March from 10:00 am to 12:00 pm on the zoom platform. The meeting aimed to have an interactive session with students and talk regarding how to sculpt your road to success in this competitive generation. The central theme of the talk was focused on fear and how vital it is to fight it back. The speaker stressed on four 'p's passion, practice, patience, and persistence in dealing with real-life situations. To quote some words, "Life begins at the edge of your comfort zone". The speaker also shared one of his secrets which is, perceive, believe and achieve. There was a brainteaser session at the end which cheered up the audience and filled them with joy. The talk even though through online mode conveyed the ideas very efficiently.

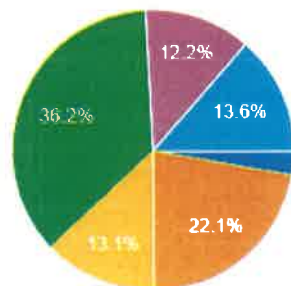
- Naveen R S, MECH

The entrepreneurship meeting was very engaging and interactive. The ideas of 4p's passion, practice, patience, persistence was so inspiring to hear. The main concept of persistence, believe and achieve was motivating. It was an excellent session and as a budding students we look forward to many more sessions like this.

- DEEPAK ANAND,EEE

Department

213 responses



- Civil Engineering
- Computer Science Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Mechanical Engineering
- Information and Technology



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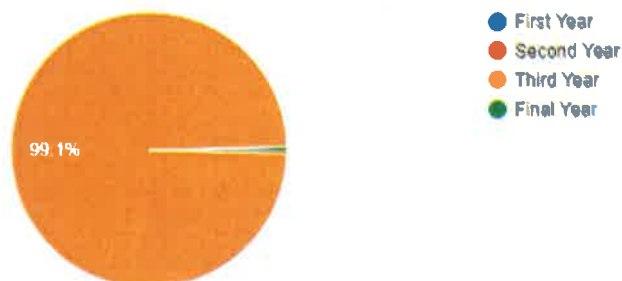
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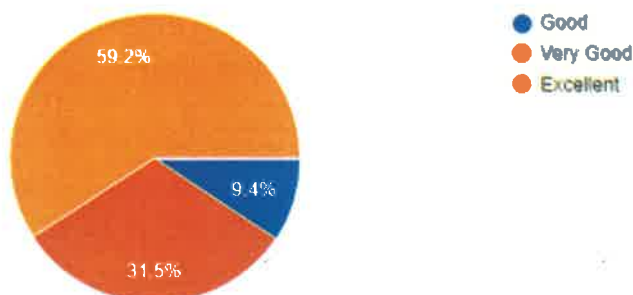
Year

213 responses



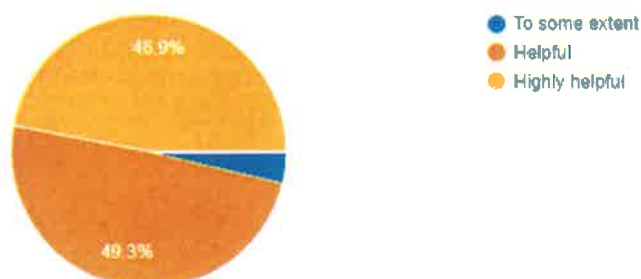
1. How would you rate the event on a scale of 3?

213 responses



2. Was the content helpful to your Engineering career?

213 responses



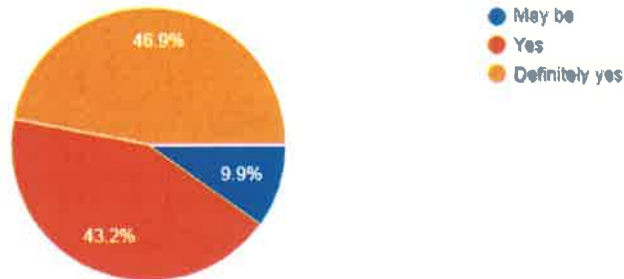


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3. Will you implement any of the Ideas learnt in your career?

213 responses





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### 3.5 SYMPOSIUM (2.3.1 Participative Learning)



### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### (2.3.1 Participative Learning)

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### SYMPOSIUM EVENT

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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Email Id: [principal@msec.edu.in](mailto:principal@msec.edu.in)  
Website : [www.msec.edu.in](http://www.msec.edu.in)

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE  
#363, ARCOT ROAD, KODAMBAKKAM, CHENNAI

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
PROUDLY PRESENTS

# EPSILON 2K21

A NATIONAL LEVEL VIRTUAL SYMPOSIUM CONDUCTED ON APRIL 10TH 2021

**EVENTS**

TECHNICAL EVENTS		NON-TECHNICAL EVENTS
PAPER PRESENTATION INFO HUB CIRCUIT DEBUGGING BLOCK AND TACKLE QUIZOPHILE	Paper Presentation Abstract Submission Last Date April 6th 2021	ONLINE PHOTOGRAPHY RAISE YOUR MIC GAMIFY CONNECTION MANIA PERSONIFIED IPL AUCTION MOBILE GAMING

**Staff Coordinators:**  
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[epsilonee2k21@gmail.com](mailto:epsilonee2k21@gmail.com)  
<http://www.epsilon2021.tk/>

**Student President:**  
Santhosh K - 9025686042  
Sridevi V - 8072909223

## SYMPOSIUM POSTER

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(2.3.1 Participative Learning)

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## SYMPOSIUM BROCHURE

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## SYMPOSIUM

### DEPARTMENT OF CIVIL ENGINEERING

#### (2.3.1 Participative Learning)

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**DEPARTMENT OF MECHANICAL ENGINEERING**

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### 3.6 COMPETITIONS (2.3.1 Participative Learning)

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

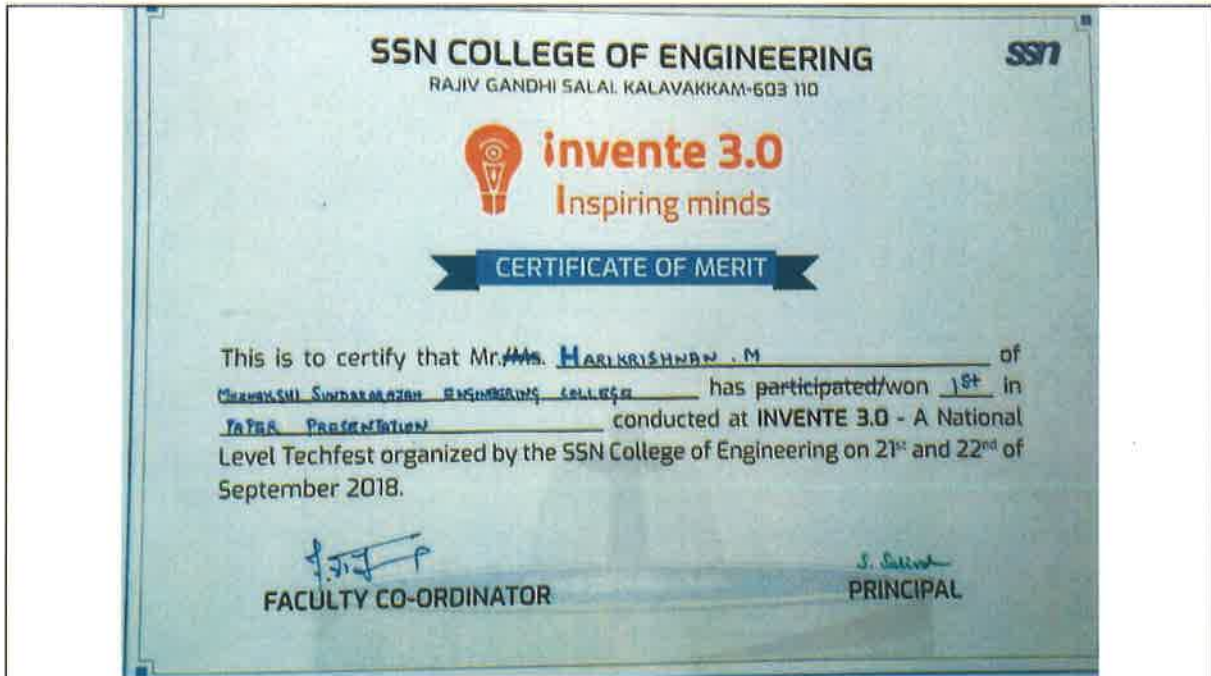
S.No	Name of the student	Institution/ Organization name	Date	
1.	Saran Raj Indhar	SSN College, Solder IT	13,14 Sep 2019	Participated
2.	Sanjeev MG Akshaya R	Meenakshi Sundararajan Engineering College, Demystifying Internet of things	20.7.2019	Participated
3.	Brian Samuel Pon ashok	SSN Tech Fest,D sim	13,14 Sep 2019	Participated
4.	Abishek, Umer farooq	SSN Tech Fest,D sim	13,14 Sep 2019	Participated
5.	Harikrishnan M	SSN Tech Fest	21,22 Sep 2018	

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6.	Harikrishnan M	All India Institute of Medical Sciences- Bhubaneswar	13, March 2018	
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7.	B Nisha, P Aishwarya	Panimalar Engineering College, RESURGAM Fest	28-02-2018	
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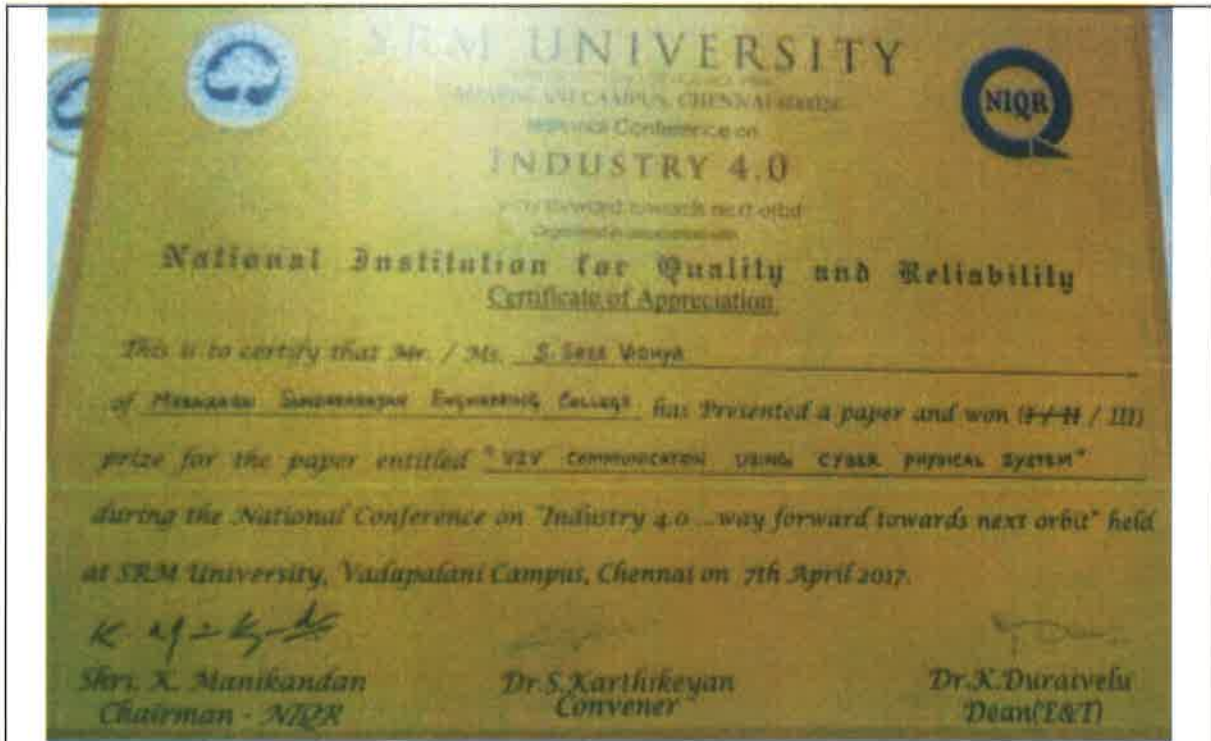
8.	S Shreevidhya	National conference , SRM University	07-04-2017	
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9.	Praveen D	1. Workshop on digital marketing, E summit -16, Annual entrepreneurial event, IIT, KANPUR 2. Workshop on Startup India Action plan 3. Workshop on Design thinking	26-08-2016 to 28-08-2016	
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10.	Muralikrishnan H	TS Muralikrishna award.	11 <sup>th</sup> June 2016	
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11.	S.Vasudharini D.Praveen	CTS Big Ideas 2k17 Contest	2017			
				<p>Attended under Publ provided in southern fi CC</p> <table border="1"><tr><td>Sl. No</td></tr><tr><td>8</td></tr></table>	Sl. No	8
Sl. No						
8						

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## 3.7 ADD ON COURSE: PRINTED CIRCUIT BOARD (2.3.1 Participative Learning)



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**(2.3.1 Participative Learning)**