

**KARPAGA VINAYAGA COLLEGE OF ENGINEERING &  
TECHNOLOGY**

Madhuranthagam Taluk – 603 308

**Department : EEE**

**Semester / Year : IV / II**

**Subject code : EE1304 Name of the Lab: ELECTRICAL  
MACHINES - II LAB**

**List of Major Equipments:**

<b>S.No</b>	<b>Description of Equipment</b>
<b>1</b>	<b>DC shunt Motor coupled three phase alternator</b>
<b>2</b>	<b>Synchronous motor coupled to DC Motor</b>
<b>3</b>	<b>Three phase induction motor</b> <b>Squirrel cage</b> <b>Slip ring</b>
<b>4</b>	<b>DC shunt Motor coupled salient pole three phase alternator</b>
<b>5</b>	<b>Single Phase induction motor</b>
<b>6</b>	<b>Single Phase Auto –Transformer</b>
<b>7</b>	<b>Three Phase Auto –Transformer</b>

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**Department : MECH**

**Semester / Year : III / II**

**Subject code : EE1214                      Name of the Lab: ELECTRICAL  
ENGG. LAB**

**List of Major Equipments:**

<b>S.No</b>	<b>Description of Equipment</b>
<b>1</b>	<b>DC Motor -Generator Set</b>
<b>2</b>	<b>DC Motor -Shunt Generator</b>
<b>3</b>	<b>DC Shunt Motor</b>
<b>4</b>	<b>DC series Motor</b>
<b>5</b>	<b>Single Phase Transformers</b>
<b>6</b>	<b>Three Phase Transformers</b>
<b>7</b>	<b>DC Motor -Alternator Set</b>
<b>8</b>	<b>Three Phase Cage induction motor</b>
<b>9</b>	<b>Three Phase slip ring induction motor</b>
<b>10</b>	<b>Single Phase Induction Motor</b>
<b>11</b>	<b>Single Phase Auto – Transformer</b>
<b>12</b>	<b>Three Phase Auto – Transformer</b>

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**Madhuranthagam Taluk – 603 308**

**Department : ECE**

**Semester / Year : III / II**

**Subject code : EE1261                      Name of the Lab: ELECTRICAL  
MACHINES LAB**

**List of Major Equipments:**

<b>S.No</b>	<b>Description of Equipment</b>
<b>1</b>	<b>DC Motor -Generator Set</b>
<b>2</b>	<b>DC Motor -Shunt Generator</b>
<b>3</b>	<b>DC Shunt Motor</b>
<b>4</b>	<b>DC series Motor</b>
<b>5</b>	<b>Single Phase Transformers</b>
<b>6</b>	<b>Three Phase Transformers</b>
<b>7</b>	<b>DC Motor -Alternator Set</b>
<b>8</b>	<b>Three Phase Cage induction motor</b>
<b>9</b>	<b>Three Phase slip ring induction motor</b>
<b>10</b>	<b>Single Phase Induction Motor</b>
<b>11</b>	<b>Single Phase Auto – Transformer</b>
<b>12</b>	<b>Three Phase Auto – Transformer</b>

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**Department : EEE**

**Semester / Year : III / IV**

**Subject code : IC 1252                      Name of the Lab: CONTROL  
SYSTEM LAB**

**List of Major Equipments:**

<b>S. No</b>	<b>Description of the Equipments</b>
<b>1.</b>	<b>DC Servomotor</b>
<b>2.</b>	<b>AC Servomotor</b>
<b>3.</b>	<b>System with MATLAB</b>
<b>4.</b>	<b>System MATCAD</b>
<b>5.</b>	<b>CRO and Square Wave Generator</b>

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**Department : EEE**

**Semester / Year : V / III**

**Subject code : EE 1303                      Name of the Lab: POWER**

**ELECTRONICS LAB**

**List of Major Equipments:**

<b>S.No</b>	<b>Description of Equipment</b>
<b>1</b>	<b>Transient characteristics Trainer kit</b>
<b>2</b>	<b>Step up &amp; step down MOSFET Based Chopper kit</b>
<b>3</b>	<b>IGBT Based Single Phase PWM Inverter kit</b>
<b>4</b>	<b>IGBT Based Three Phase PWM Inverter kit</b>
<b>5</b>	<b>Resonant DC to DC Converter kit</b>
<b>6</b>	<b>SCR Characteristics</b>
<b>7</b>	<b>DIAC &amp; TRIAC Characteristics</b>
<b>8</b>	<b>Single Phase Half Controlled Converter</b>
<b>9</b>	<b>Single Phase Fully Controlled Converter</b>
<b>10</b>	<b>Three Phase Half Controlled Converter</b>
<b>11</b>	<b>Three Phase Fully Controlled Converter With Microprocessor Based</b>

	<b>Firing Unit</b>
<b>12</b>	<b>Characteristics of MOSFET &amp; IGBT</b>

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**Department : EEE**

**Semester / Year : VI / III**

**Subject code : EI 1362**

**Name of the Lab: MEASUREMENTS AND INSTRUMENTATION  
LAB**

**List of Major Equipments:**

<b>S.No</b>	<b>Description of Equipment</b>
<b>1</b>	<b>LVDT kit</b>
<b>2</b>	<b>Bourdon pressure transducer kit</b>
<b>3</b>	<b>Maxwell's Inductance and Capacitance Bridge kit</b>
<b>4</b>	<b>Wheat stone bridge kit</b>
<b>5</b>	<b>Schering Bridge kit</b>
<b>6</b>	<b>Kelvin Double bridge kit</b>
<b>7</b>	<b>CRO</b>

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**Department : EEE**

**Semester / Year : III / II**

**Subject code : EE 1152**

**Name of the Lab: ELECTRIC CIRCUITS LAB**

**List of Major Equipments:**

<b>S.No</b>	<b>Description of Equipment</b>
<b>1</b>	<b>Cathode Ray Oscilloscope</b>
<b>2</b>	<b>Function Generator</b>