



# MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University)  
Rasipuram - 637 408, Namakkal Dist., Tamil Nadu.



## MUST KNOW CONCEPTS

MKC

EEE

2021-22

Course Code & Course Name : 19EEC07 & Power Electronics

| S.No.                                     | Term                                  | Notation (Symbol)   | Concept / Definition / Meaning / Units / Equation / Expression  | Units    |
|---|---------------------------------------|---|---|----------|
| <b>UNIT I POWERSEMI-CONDUCTOR DEVICES</b> |                                       |   |   |          |
| 1.  | <b>Power Electronics</b>              |    | It is defined as the application of solid state electronics for the control (source-load) and conversion of electrical power (ac-dc dc-dc, dc-ac, ac-ac).   | Nil      |
| 2.  | <b>Solid State Electronics</b>        | Nil   | They are made up of solid state semiconductor devices which is unable to move, and can control the rotating machines. Ex. Diode, SCR, MOSFET, IGBT, etc).   | Nil      |
| 3.  | <b>Signal Electronics</b>             |  | It is the study of semiconductor devices and the process of information/signal where the operating voltage and current is of signal level (Ex: max.30v, 0.5A).                                    | Nil      |
| 4.  | <b>Power Electronics</b>              |  | It is the study of semiconductor devices whose operating voltage and current is of power level (Ex: interms of KV, higher value of magnitude of currents).  | Nil      |
| 5.  | <b>Doping</b>                         | Nil   | The amount of impurity added to a pure semiconductor.   | Nil      |
| 6.  | Depletion Region                      | Nil   | A region in a P-N junction diode where no mobile charge carriers are present. Depletion layer acts like a barrier that opposes the flow of electrons from n-side and holes from p-side.           | Nil      |
| 7.  | Drift region                          | Nil   | A region where the immobile acceptor and donor ions break.  | Nil      |
| 8.  | <b>Break down voltage</b>             | $V_{BO}$  | It is the minimum forward voltage at which gate being open, junction breaks down and the SCR starts conducting.   | Volts    |
| 9.  | <b>Knee /Cut-in/Threshold voltage</b> | $V_K / V_{cut-in}$  | The minimum voltage at which the diode starts conducting and current starts increasing exponentially is called knee voltage of a diode. $V_{cut-in} = 0.6V$ for silicon and $0.3V$ for germanium. | Volts    |
| 10.                                       | <b>Peak Inverse Voltage</b>           |   | The maximum voltage which diode can withstand without breakdown is called peak inverse voltage.   | Volts    |
| 11.                                       | Reverse Charge Recovery               | $Q_{rr}$  | It is the charge accumulated within a diode rectifier that has experienced a forward current.   | Coulombs |

|     |   |   |  |         |
|-----|---|---|--|---------|
| 12. | Reverse recovery Time                                     | $t_{rr}$  | When switching from the conducting to the blocking state, a diode has stored charge that must first be discharged. This discharge takes a finite amount of time known as the Reverse Recovery Time.                  | $\mu s$ |
| 13. | Latching current  | $I_L$   | It is the minimum anode current, above which the SCR starts conducting and it is required to keep SCR in conducting state even after removal of gate pulse. $I_L > I_H$  | mA      |
| 14. | Holding current   | $I_H$   | It is the minimum anode current, below which the SCR turns-off. Hence, holding current is responsible for turn-off and latching current for turn off.  | mA      |
| 15. | Reverse Recovery Time                                     | $T_{rr}$  | Reverse recovery time ( $T_{rr}$ ) is the time taken to stop conducting when the diode is reverse biased.  | seconds |
| 16. | Snubber Circuit   | Nil   | Snubber circuits are needed to limit the rate of change in voltage or current ( $di/dt$ or $dv/dt$ ) and over voltage during turn-on and turn-off. Hence, it acts as a protection circuit.                           | Nil     |
| 17. | V-I Characteristics                                       | Nil   | A trainer kit is available in the laboratory to compare the ideal and practical V-I characteristics of SCR, TRIAC, GTO, MOSFET, IGBT.  | Nil     |
| 18. | Pinch-Off Voltage   | $V_P$   | For MOSFET $V_{GS}=0$ V, the value of $V_{DS}$ at which $I_D$ becomes essentially constant is the pinch-off voltage, $V_P$ .   | Volts   |
| 19. | Commutation   | -   | Commutation-Turning-off from forward conducting state to forward blocking state.   | -       |
| 20. | Silicon Controlled rectifier                              |  | It belongs to the family of thyristors and is a current-controlled four-layer solid state semiconductor device used as a controlled rectifier.   | -       |
| 21. | GTO-Gate Turn-off thyristor                               |  | It belongs to the family of thyristors, where the turn-on and turn-off of the device is  | -       |
| 22. | TRIAC-Triode as an AC switch                              |  | It is a bidirectional semiconductor device, where two thyristors are connected in antiparallel, can be integrated into a single device called TRIAC.   | -       |
| 23. | Power BJT-Bidirectional Junction Transistor               |  | It is a 3 terminal, three layer, 2 junction, current controlled semiconductor device in which the operation depends on the interaction of both the majority and minority charge carriers and hence the name bipolar. | -       |
| 24. | MOSFET- Metal Oxide Semiconductor Field Effect Transistor |  | It is a 3 terminal, three layer, voltage controlled high input impedance semiconductor device  | -       |
| 25. | IGBT-Insulated Gate Bipolar Junction Transistor           |  | It is a 3 terminal, three layer, voltage controlled, which possess high input impedance and high switching speeds of a MOSFET with the low saturation voltage of a bipolar   | -       |

|                                   |                                |   |   |     |
|-----------------------------------|--------------------------------|---|---|-----|
|                                   |                                |   | transistor.   |     |
| <b>UNIT II AC - DC CONVERTERS</b> |                                |   |   |     |
| 26.                               | <b>Converters</b>              | Nil   | A power electronic converter which uses power electronic components such as SCRs, TRIACs, IGBTs, etc. to control and convert the electric power.                                | Nil |
| 27.                               | <b>Rectifier</b>               |  | It converts the alternating current to pulsating direct current by using semiconductor devices.   | Nil |
| 28.                               | <b>Controlled Rectifiers</b>   |  | Controlled rectifiers are line commutated ac to dc power converters which are used to convert a fixed voltage, fixed frequency ac power supply into variable dc output voltage. | Nil |
| 29.                               | <b>Uncontrolled Rectifiers</b> | Nil   | It employs only diodes for rectification and the dc output voltage is fixed in amplitude.   | Nil |
| 30.                               | <b>Firing angle</b>            | $\alpha$  | The angle measured from the instant that gives the largest output voltage to the instant it is triggered w.r.t the applied voltage.   | Nil |
| 31.                               | <b>Delay angle</b>             | Nil   | The delay angle is defined as the angle between the zero crossing of the input voltage and the instant the thyristor is fired.  | Nil |
| 32.                               | <b>One Pulse Converter</b>     | Nil   | It employs one pulse in each cycle of ac wave for obtaining the rectification process. Ex. Half wave controlled converter.  | Nil |
| 33.                               | <b>Semiconverters</b>          | Nil   | It is a single quadrant converter which has only one polarity of output voltage and current. It uses two SCRs and two diodes which are connected in bridge configuration.       | Nil |
| 34.                               | <b>Two Pulse converter</b>     | Nil   | It employs two pulses in each cycle of ac wave for obtaining the rectification process. Ex. 1- $\phi$ Full wave controlled converter.   | Nil |
| 35.                               | <b>Full converters</b>         | Nil   | It is a two quadrant converter whose voltage polarity can reverse, but the current direction cannot reverse. It uses four SCRs which are connected in bridge configuration.     | Nil |
| 36.                               | <b>Three pulse converter</b>   | Nil   | It employs three pulses in each cycle of ac wave for obtaining the rectification process. Ex. 3- $\phi$ Half wave controlled converter.   | Nil |
| 37.                               | <b>Six pulse converter</b>     | Nil   | It employs six pulses in each cycle of ac wave for obtaining the rectification process. Ex. 3- $\phi$ full wave controlled converter.   | Nil |
| 38.                               | <b>Dual Converter</b>          | Nil   | Two full converters connected in antiparallel and connected to the dc load, offering four quadrant operation.   | Nil |
| 39.                               | <b>Commutation</b>             | Nil   | The process of turning-off of a power semiconductor device.   | Nil |
| 40.                               | <b>Natural Commutation</b>     | Nil   | The semiconductor device is turned off naturally without using any circuit. If the source is AC this type of commutation is employed.   | Nil |
| 41.                               | <b>Forced Commutation</b>      | Nil   | It is an external commutation circuit required to turn-off the conducting semiconductor device. If the source is DC this type of commutation is                                 | Nil |

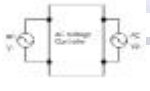
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|                                    |                                |   | mandatory.  |         |
| 42.                                | <b>Freewheeling diode</b>      | FWD   | It maintains the load current to be continuous and is also used to improve the power factor of the system.  | Nil     |
| 43.                                | <b>Ripple</b>                  | Nil   | AC component present in the DC output voltage.  | Nil     |
| 44.                                | <b>Overlap period</b>          | $\mu$   | Both the incoming and outgoing thyristors conducts.   | Nil     |
| 45.                                | <b>Extinction angle</b>        | $\beta$   | The angle $\beta$ , where the thyristor gets switched off in spite of being reverse biased, this instant is called extinction angle.  | Nil     |
| 46.                                | <b>Harmonics</b>               | Nil   | It is the integral multiple of fundamental frequency ( $f=50\text{hz}$ ).   | Nil     |
| 47.                                | Total Harmonic Distortion      | THD   | THD is the ratio of the sum of the powers of all harmonic components to the power of the fundamental frequency.   | Nil     |
| 48.                                | <b>Frequency</b>               | $f$   | Frequency is the number of complete cycles per second in alternating current direction.   | Hz      |
| 49.                                | <b>Time period</b>             | $T=1/f$   | It is time required to complete one complete cycle $T=1/f$ .  | seconds |
| 50.                                | <b>Performance validation</b>  | Nil   | Power circuit module, triggering unit and CRO is available in the laboratory to validate the performance of 1- $\phi$ and 3- $\phi$ half controlled and fully controlled converter. | Nil     |
| <b>UNIT III DC - AC CONVERTERS</b> |                                |   |   |         |
| 51.                                | <b>Inverter</b>                |  | Convert fixed dc voltage to variable ac output voltage and frequency by employing forced commutation.   | Nil     |
| 52.                                | <b>Inverter output</b>         | $V_o$   | Square wave output can produce with humming.  | Nil     |
| 53.                                | <b>Square wave Inverter</b>    | Nil   | The practical output of an inverter is either a square or quasi-square inverter.  | Nil     |
| 54.                                | <b>Pulse Generator</b>         | Nil   | Generates trigger pulses/firing pulses to trigger the power semiconductor devices.  | Nil     |
| 55.                                | <b>Voltage source inverter</b> | VSI   | It is a stiff/constant dc input voltage which remains constant irrespective of the load connected across the output terminals.  | Nil     |
| 56.                                | <b>Current source inverter</b> | CSI   | It is a stiff/constant dc input current source which remains constant irrespective of the load connected across the output terminals.   | Nil     |
| 57.                                | Pulse Width Modulation         | PWM   | A fixed dc input voltage is given to the inverter and a controlled ac output voltage is obtained by adjusting the on and off periods of the inverter devices.                       | Nil     |
| 58.                                | <b>Single PWM</b>              | Nil   | In single pulse modulation, there is only one pulse exists per half cycle. The width of this pulse is varied to control the inverter output voltage.                                | Nil     |
| 59.                                | <b>Multiple PWM</b>            | Nil   | In MPWM, many pulses having equal widths are produced per every half cycle. The gating signals are produced by comparing reference signal with triangular carrier wave.             | Nil     |

|                                    |                                |     |   |     |
|------------------------------------|--------------------------------|-----|---|-----|
| 60.                                | <b>Sinusoidal PWM</b>          | Nil | Gate pulses are generated by comparing sinusoidal reference signal with triangular carrier signal. Frequency of reference signal ( $f_r$ ) decides the frequency of output voltage.   | Nil |
| 61.                                | <b>Modulation index</b>        | m   | Modulation index is the ratio of peak magnitudes of the modulating waveform and the carrier waveform.   | Nil |
| 62.                                | <b>Space vector modulation</b> | SVM | SVM is an algorithm for the control of pulse width modulation. It is used for the creation of alternating current (AC) waveforms; most commonly to drive 3 phase AC powered motors at varying speeds from DC.               | Nil |
| 63.                                | <b>Series inverter</b>         | Nil | The commutating components (L&C) are connected in parallel with the load.   | Nil |
| 64.                                | <b>Parallel inverter</b>       | Nil | The commutating components (L&C) are connected in series with the load thus forming an underdamped circuit.   | Nil |
| 65.                                | <b>Converter grade SCR</b>     | Nil | Converters with slow turn-off time (50-100 $\mu$ S).  | Nil |
| 66.                                | <b>Inverter grade SCR</b>      | Nil | Converters with fast turn-off time (3-50 $\mu$ S).  | Nil |
| 67.                                | <b>Performance validation</b>  | Nil | The performance of Series and parallel, VSI, CSI can be validated in the laboratory using the trainer kits/discrete components.   | Nil |
| 68.                                | <b>Power Pollution</b>         | Nil | Harmonics contributes power pollution which are the unwanted higher frequencies which superimposed on the fundamental waveform creating a distorted wave pattern.   | Nil |
| 69.                                | <b>Harmonics</b>               | Nil | It is a integral multiple of the fundamental frequency (50Hz) and is a distortion of the normal electrical current waveform, generally transmitted by non-linear loads.   | Nil |
| 70.                                | <b>Odd harmonics</b>           | Nil | Harmonics such as, 3,5,7,9,11,13... contributes odd harmonics.  | Nil |
| 71.                                | <b>Even harmonics</b>          | Nil | Harmonics such as 2,4,6,8,10... contributes even harmonics.   | Nil |
| 72.                                | Total Harmonic Distortion      | THD | Measurement of the harmonic distortion present in a signal and is defined as the ratio of the sum of the powers of all harmonic components to the power of the fundamental frequency.                                       | Nil |
| 73.                                | <b>180 degree mode VSI</b>     | Nil | Here 3 SCRs conducts at an instant, each SCR conducts for 180° or T/2 seconds.  | Nil |
| 74.                                | <b>120 degree mode VSI</b>     | Nil | Here 2 SCRs conducts at an instant, each SCR conducts for 120° or T/3 seconds.  | Nil |
| 75.                                | <b>Feedback diodes</b>         | Nil | For RL loads, load current will not be in phase with load voltage and the diodes connected in antiparallel will allow the current to flow when the main thyristors are turned off. These diodes are called feedback diodes. | Nil |
| <b>UNIT IV DC TO DC CONVERTERS</b> |                                |     |   |     |
| 76.                                | <b>AC Link chopper</b>         | Nil | It is a traditional chopper, where dc is converted to ac and a transformer is used to neither increase or decrease the voltage, finally   | Nil |

|     |                              |          |   |         |
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|     |                              |          | a controlled rectifier is used to obtain variable dc voltage.   |         |
| 77. | <b>Duty Cycle</b>            | $\alpha$ | It is defined as the ratio of on period to the total time period of the chopper. $\alpha = T_{on} / (T_{on} + T_{off})$ .                                     | %       |
| 78. | <b>Time period</b>           | T        | It is the sum of ON and OFF period of a semiconductor device which acts as a chopper, $T = T_{on} + T_{off}$ .  | seconds |
| 79. | <b>Chopping frequency</b>    | f        | The corresponding time period, T for a chopper circuit determines the switching frequency, where $T = 1/f$ .  | Hz      |
| 80. | <b>Buck Converter</b>        | Nil      | It is a step down converter, which produces a lower average dc output voltage $E_0$ than the dc input voltage $E_{dc}$ .                                      | Nil     |
| 81. | <b>Boost Converter</b>       | Nil      | It is a step up converter, which produces a greater average dc output voltage $E_0$ than the dc input voltage $E_{dc}$ .                                      | Nil     |
| 82. | <b>Buck-Boost Converter</b>  | Nil      | It is cascade connection of buck and boost converter and the output voltage can be either decreased or increased with respect to the input voltage $E_{dc}$ . | Nil     |
| 83. | <b>Frequency Modulation</b>  | Nil      | In frequency modulation control, the chopping frequency f (or the chopping period T) is varied.   | Nil     |
| 84. | <b>Time-Ratio control</b>    | TRC      | Achieved by varying the $T_{on} / T$ control.   | seconds |
| 85. | <b>Current Limit control</b> | CLC      | Current is maintained between two limits.   | Amps    |
| 86. | <b>Forced commutation</b>    | Nil      | Current is forced to zero for turn-off.   | Nil     |
| 87. | <b>Voltage commutation</b>   | Nil      | The capacitor voltage reverse biases the conducting device and it turns Off.  | Nil     |
| 88. | <b>Load commutation</b>      | Nil      | The load current becomes zero or is transferred to another device   | Nil     |
| 89. | <b>Motoring</b>              | Nil      | It operates in Quadrant I of the $V_o$ - $I_o$ four quadrant plane, with operating in forward motoring mode.  | Nil     |
| 90. | <b>Forward braking</b>       | Nil      | It operates in Quadrant II of the $V_o$ - $I_o$ four quadrant plane with operating in Generating or forward braking mode.                                     | Nil     |
| 91. | <b>Reverse motoring</b>      | Nil      | It operates in Quadrant III of the $V_o$ - $I_o$ four quadrant plane, with operating in reverse motoring mode.  | Nil     |
| 92. | <b>Reverse braking</b>       | Nil      | It operates in Quadrant IV of the $V_o$ - $I_o$ four quadrant plane, with operating in Generating or reverse braking mode.                                    | Nil     |
| 93. | <b>Flyback converters</b>    | Nil      | It is a DC-DC converter, which are used to convert the unregulated dc input voltage into a controlled desired dc output voltage.                              | Nil     |
| 94. | <b>Cuk Converter</b>         | Nil      | It is a type of DC/DC converter that has an output voltage magnitude that is either greater than or less than the input voltage $E_{dc}$ .                    | Nil     |
| 95. | <b>AC Link chopper</b>       | Nil      | It is a traditional chopper, where dc is converted to ac and a transformer is used to   | Nil     |

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|------|---|-----|--|-----|
|      |   |     | neither increase or decrease the voltage, finally a controlled rectifier is used to obtain variable dc voltage.  |     |
| 96.  | <b>Resonant Converter</b>               | Nil | It is a type of electric power converter that contains a network of inductors and capacitors called a "resonant tank", tuned to resonate at a specific frequency.  | Nil |
| 97.  | <b>High Frequency switching devices</b> | Nil | They are power semiconductor devices with faster turn-on and turn-off process to achieve the power conversion at a faster rate.  |     |
| 98.  | <b>Performance validation</b>           | Nil | The performance of Step-up and Step-down choppers, Voltage and Current commutated chopper can be validated in the laboratory using the trainer kits/discrete components.   | Nil |
| 99.  | <b>Linear Regulator</b>                 | Nil | As its name suggests, a linear regulator is one where a linear component (such as a resistive load) is used to regulate the output.  | Nil |
| 100. | <b>Switching Regulator</b>              | Nil | A switching regulator is a voltage regulator that uses a switching element to transform the incoming power supply into a pulsed voltage, which is then smoothed using capacitors, inductors, and other elements. | Nil |

#### UNIT V AC TO AC CONVERTERS

|      |  |   |  |     |
|------|--|---|--|-----|
| 101. | <b>Cycloconverter</b>                            | Nil   | It is a power electronic converter, which converts the input power at one frequency to output power at another frequency/load frequency.   | Nil |
| 102. | <b>Frequency</b>                                 | F   | Alternating current (ac) frequency is the number of cycles per second in an ac sine wave. Power line frequency (normally 50 Hz or 60 Hz).  | Hz  |
| 103. | <b>Time period</b>                               | T   | The Period, (T) is the length of time in seconds that the waveform takes to repeat itself from start to finish.<br>$T = T_{ON} + T_{OFF}$  | Sec |
| 104. | <b>AC voltage controllers/ AC regulators</b>     |  | It is a power electronic converter, which converts a fixed voltage, fixed frequency alternating current to variable voltage, fixed frequency.  | Nil |
| 105. | <b>Unidirectional Controller/ Half wave ACVC</b> | Nil   | It can only control positive or negative cycle of the AC Wave or say half wave therefore it can be used where there is only need of control half wave.   | Nil |
| 106. | <b>Half wave ACVC</b>                            | Nil   | Single-phase half wave voltage regulator consists of a Thyristor and a diode in anti parallel. Therefore control is possible only in positive half cycle. The output waves are very much distorted. Therefore half wave regulator is not used. | Nil |
| 107. | <b>Bidirectional controller</b>                  | Nil   | It can control the ac power flow to the load in both the half cycles by adjusting the trigger angle ' $\alpha$ ' Controlled during both cycles of the input voltage.   | Nil |

|      |   |     |  |     |
|------|---|-----|--|-----|
| 108. | <b>Sequence control</b>                                       | Nil | A two or more stages of ac voltage controllers in parallel for the regulation of output voltage.   | Nil |
| 109. | <b>Multi stage Sequence control</b>                           | Nil | While controlling two or more sequence control stages, there can be an enhancement in power factor and additional reduction in THD (total harmonic distortion).                                      | Nil |
| 110. | <b>On-Off Control</b>   | Nil | In this technique, the thyristors are used as switches to connect the load circuit to the ac supply (source) for a few cycles of the input ac supply and then to disconnect it for few input cycles. | Nil |
| 111. | <b>Integral Cycle Control</b>                                 | Nil | In integral cycle control, thyristor switches connect the load to the AC source for a few cycles of input voltage and then disconnect it for another few cycles.                                     | Nil |
| 112. | <b>Phase Control</b>  | Nil | The thyristor switch sets up a connection between the load and the AC source for only part of each cycle of the input voltage by adjusting the ac phase angle.                                       | Nil |
| 113. | <b>Duty cycle in ACVC</b>                                     | Nil | Duty cycle = $n / n + m$<br>where n = number of on-cycles; m = number of off-cycles  | Nil |
| 114. | <b>Step-up Cycloconverter</b>                                 | Nil | If the output frequency is greater than the supply frequency, then it is called as step-up cycloconverters.  | Nil |
| 115. | <b>Step-down Cycloconverter</b>                               | Nil | If the output frequency is less than the supply frequency, then it is called as step-down cycloconverters.   | Nil |
| 116. | <b>1-<math>\phi</math>-1-<math>\phi</math> Cycloconverter</b> | Nil | It consists of two full wave converters that are linked back to back as shown below.   | Nil |
| 117. | <b>3-<math>\phi</math>-1-<math>\phi</math> Cycloconverter</b> | Nil | This type of converter can operate in four quadrants (+V, +I, -V, -I) in two modes (inverting and rectifying). Here; +V, +I are in rectifying modes and -V, -I are in inverting modes.               | Nil |
| 118. | <b>3-<math>\phi</math>-3-<math>\phi</math> Cycloconverter</b> | Nil | These types of Cycloconverters are formed by using 3 three-phase to single cycloconverters linked together to the load and is used in AC machine systems.  | Nil |
| 119. | <b>Blocking Mode Cycloconverters</b>                          | Nil | The positive converter will provide the necessary voltage when there is positive load current where as at that time, the negative converter will be in the blocked condition.                        | Nil |
| 120. | <b>Positive converter group</b>                               | Nil | The part of the cycloconverter circuit that permits the flow of current during positive half cycle of output current is called positive converter group.   | Nil |
| 121. | <b>Commutation in Cycloconverter</b>                          | Nil | Since the source is AC, line/natural commutation is employed.  | Nil |
| 122. | <b>Commutation in ACVC</b>                                    | Nil | Since the source is AC, line/natural commutation is employed.  | Nil |
| 123. | <b>Negative converter</b>                                     | Nil | The part of the cycloconverter circuit that  | Nil |



|      |                               |     |   |     |
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|      | <b>group</b>                  |     | permits the flow of current during negative half cycle of output current is called negative converter group.  |     |
| 124. | <b>Matrix Converters</b>      | Nil | It is a single stage of conversion ac-ac conversion without any intermediate energy storage element.  | Nil |
| 125. | <b>Performance validation</b> | Nil | The performance of cycloconverters, AC voltage controllers can be validated in the laboratory using the trainer kits which includes the power modules and triggering units/discrete components. | Nil |

### Placement Questions

|      |  |
|------|--|
| 126. | Tell me a little about yourself.                                     |
| 127. | What are your biggest weaknesses?                                    |
| 128. | What are your biggest strengths?                                     |
| 129. | Where do you see yourself in five years?                             |
| 130. | Out of all the other candidates, why should we hire you?             |
| 131. | How did you learn about the opening?                                 |
| 132. | Why do you want this job?  |
| 133. | What do you consider to be your biggest professional achievement?    |
| 134. | Describe your dream job  |
| 135. | Why do you want to leave your current job?                           |
| 136. | What kind of work environment do you like best?                      |
| 137. | Tell me the toughest decision you had to make in the last 6 months   |
| 138. | What is your leadership style?                                       |
| 139. | Tell me about a time you disagreed with a decision. What did you do? |
| 140. | Tell me how you think other people would describe you.               |
| 141. | What can we expect from you in your first three months?              |
| 142. | What do you like to do outside of work?                              |
| 143. | What was your salary in your last job?                               |
| 144. | What questions do you have for me?                                   |
| 145. | What is your greatest professional achievement?                      |
| 146. | Can you explain why you changed career paths?                        |
| 147. | How do you deal with pressure or stressful situations?               |
| 148. | What do you like to do outside of work?                              |
| 149. | Are you willing to relocate?   |
| 150. | What is your biggest regret and why?                                 |

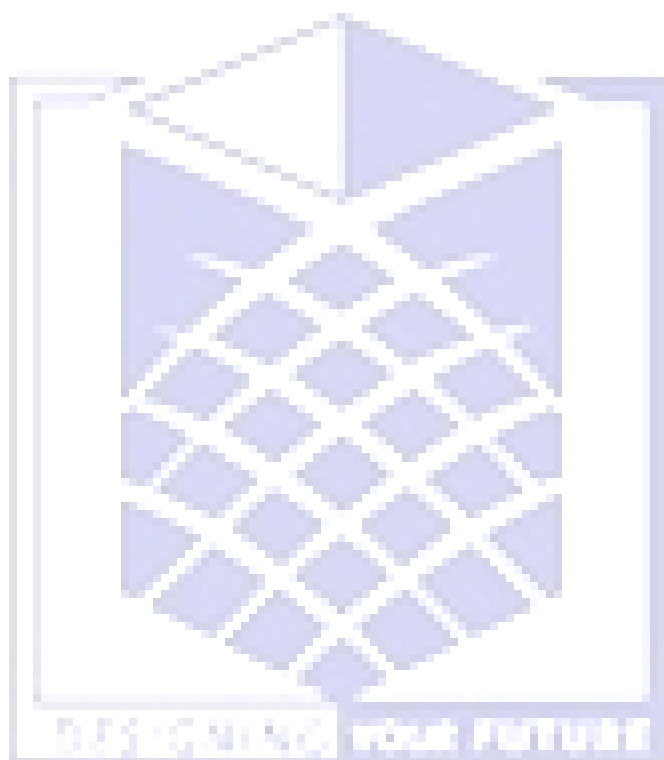
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**Faculty Team Prepared**  
**Dr R Sagayaraj P/EEE**

**Signatures**

**Year/Sem/Sec : III / V / B**

**HoD**



**Estd. 2000**