

**VIRUDHUNAGAR S.VELLAICHAMY NADAR POLYTECHNIC COLLEGE (AUTONOMOUS),**  
 (Affiliated to Directorate of Technical Education, Chennai – 25)  
**VIRUDHUNAGAR.**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**CURRICULUM OUTLINE AND SCHEME OF EXAMINATIONS PROGRAMME**

**N1–SCHEME**

**III-TERM**

Column No.	Course Code	Course Name	Hours per week			Credits	Duration of Exam in Hrs	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Others			Internal	External	Total	
1.	N1EE204	Electrical Circuit Theory	6	-	-	6	3	25	75	100	40
2.	N1EE301	Electrical Machines – I	5	-	-	5	3	25	75	100	40
3.	N1EE206	Electronic Devices and Circuits	6	-	-	6	3	25	75	100	40
4.	N1EE205	Electrical Circuits Practical	-	4	-	3	3	25	75	100	50
5.	N1EE312	Electrical Machines – I Practical	-	5	-	3	3	25	75	100	50
6.	N1EE207	Electronic Devices and Circuits Practical	-	5	-	2	3	25	75	100	50
7.	N1EE208	Electrical Workshop Practical	-	4	-	2	3	25	75	100	50
<b>TOTAL</b>			<b>17</b>	<b>18</b>	<b>-</b>	<b>27</b>	<b>-</b>	<b>175</b>	<b>525</b>	<b>700</b>	<b>--</b>

### IV TERM

Column No.	Course Code	Course Name	Hours per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Others			Internal	External	Total	
1.	N1EE302	Electrical Machines – II	6	-	-	6	3	25	75	100	40
2.	N1EE303	Measurements and Instruments	5	-	-	6	3	25	75	100	40
3.	N1EE304	Digital Electronics	5	-	-	5	3	25	75	100	40
4.	N1EE305	Transducers and Signal Conditioners	5	-	-	4	3	25	75	100	40
5.	N1EE313	Electrical Machines-II Practical	-	5	-	3	3	25	75	100	50
6.	N1EE314	Transducers and Signal Conditioners Practical	-	5	-	2	3	25	75	100	50
7.	N1EE319	Digital Electronics Practical	-	4	-	2	3	25	75	100	50
<b>TOTAL</b>			<b>21</b>	<b>14</b>	<b>-</b>	<b>28</b>	<b>-</b>	<b>175</b>	<b>525</b>	<b>700</b>	<b>--</b>

ELECTRICAL AND ELECTRONICS ENGINEERING

V TERM

Column No.	Course code	Course Name	Hours Per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Others			Internal	External	Total	
1.	N1EE306	Generation, Transmission and Switch gear	6	-	-	6	3	25	75	100	40
2.	N1EE307	Electrical Estimation	5	-	-	6	3	25	75	100	40
3.	N1EE310	Micro Controller	6	-	-	5	3	25	75	100	40
4.	N1EE401	<b>Elective Theory – I :</b> 1. Control of Electrical Machines	5	-	-	5	3	25	75	100	40
	N1EE402	2. Embedded Systems									
	N1EE403	3. Programmable Logic Controller									
5.	N1EE318	Micro Controller Practical	-	5	-	3	3	25	75	100	50
6.	N1EE316	Arduino based Robotics Practical	-	4	-	3	3	25	75	100	50
7.	N1EE406	<b>Elective Practical – I :</b> 1. Control of Electrical Machines Practical	-	4	-	3	3	25	75	100	50
	N1EE407	2. Embedded Systems Practical									
	N1EE408	3. Programmable Logic Controller Practical									
<b>TOTAL</b>			<b>22</b>	<b>13</b>	<b>-</b>	<b>31</b>	<b>--</b>	<b>175</b>	<b>525</b>	<b>700</b>	<b>--</b>

ELECTRICAL AND ELECTRONICS ENGINEERING

VI TERM

Column No.	Course Code	Course Name	Hours Per week			Credits	Duration of Exam in Hrs.	Examination Marks			Minimum Marks for Pass
			Theory	Practical	Others			Internal	External	Total	
1.	N1EE308	Distribution and Utilization	6	-	-	6	3	25	75	100	40
2.	N1EE309	Protection and Maintenance of Electrical Equipments	6	-	-	6	3	25	75	100	40
3.	N1EE311	<b>Elective Theory - II :</b> 1. Power Electronics	5	-	-	5	3	25	75	100	40
	N1CO402	2. Electric Vehicle									
	N1CO400	3. Nano and Solar Engineering									
4.	N1EE315	Industrial Wiring and CCTV Wiring Practical	-	5	-	3	3	25	75	100	50
5.	N1EE411	Electrical CAD and Simulation Practical	-	5	-	3	3	25	75	100	50
6.	N1EE317	<b>Elective Practical – II :</b> 1. Power Electronics Practical	-	4	-	2	3	25	75	100	50
	N1CO403	2. Electric Vehicle Practical									
	N1CO401	3. Nano and Solar Engineering Practical									
7.	N1EE412	Project work and Seminar	-	4	-	4	3	25	75	100	50
<b>TOTAL</b>			<b>17</b>	<b>18</b>	<b>-</b>	<b>29</b>	<b>-</b>	<b>175</b>	<b>525</b>	<b>700</b>	<b>-</b>





