

CURRICULUM – 2009
(C-09)

DIPLOMA IN
ELECTRICAL & ELECTRONICS
ENGINEERING

State Board of Technical Education & Training
Andhra Pradesh: Hyderabad

**DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING
SCHEME OF INSTRUCTIONS AND EXAMINATION
CURRICULUM-2009 (FIRST YEAR)**

| Sub Code | Name of the Subject | Instruction Periods/Week | | Total Periods Per Year | Scheme Of Examinations | | | |
|---------------------------|---|--------------------------|------------|------------------------|------------------------|-----------------|----------------|-------------|
| | | Theo | Practicals | | Duration (hrs) | Sessional Marks | End Exam Marks | Total Marks |
| THEORY SUBJECTS | | | | | | | | |
| EE-101 | English | 2 | - | 60 | 3 | 20 | 80 | 100 |
| EE-102 | Engineering Mathematics - I | 5 | - | 150 | 3 | 20 | 80 | 100 |
| EE-103 | Engineering Physics | 4 | - | 120 | 3 | 20 | 80 | 100 |
| EE-104 | Engineering Chemistry and Environmental Studies | 4 | - | 120 | 3 | 20 | 80 | 100 |
| EE-105 | Basic Electrical Engineering | 6 | - | 180 | 3 | 20 | 80 | 100 |
| PRACTICAL SUBJECTS | | | | | | | | |
| EE-106 | Mechanical Workshop | - | 3 | 90 | 3 | 40 | 60 | 100 |
| EE-107 | Engineering Drawing | - | 6 | 180 | 3 | 40 | 60 | 100 |
| EE-108 | Physics Laboratory | - | 3* | 90 | 3 | 20 | 30 | 50 |
| EE-109 | Chemistry Laboratory | - | | | 3 | 20 | 30 | 50 |
| EE-110 | Information Technology Lab | - | 4 | 120 | 3 | 40 | 60 | 100 |
| EE-111 | Electrical Workshop | - | 3 | 90 | 3 | 40 | 60 | 100 |

| | | | | | | | | |
|---|----------------------|----|----|------|---|-----|-----|------|
| - | Group Task / Seminar | - | 2 | 60 | - | - | - | - |
| | Total | 21 | 21 | 1260 | - | 300 | 700 | 1000 |

*Half the class will go to EE-108 and the other half will go to EE-109. Next week vice-versa.

**DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING
SCHEME OF INSTRUCTIONS AND EXAMINATION
CURRICULUM-2009
(III Semester)**

| Sub Code | Name of the Subject | Instruction Periods/Week | | Total Periods Per Semester | Scheme Of Examinations | | | |
|---------------------------|---|--------------------------|------------|----------------------------|------------------------|-----------------|----------------|-------------|
| | | Theory | Practicals | | Duration (hrs) | Sessional Marks | End Exam Marks | Total Marks |
| THEORY SUBJECTS | | | | | | | | |
| EE-301 | Engineering Mathematics –II | 4 | - | 60 | 3 | 20 | 80 | 100 |
| EE-302 | Electrical Circuits | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-303 | D.C.Machines & Batteries | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-304 | Electrical & Electronic Measuring Instruments | 4 | - | 60 | 3 | 20 | 80 | 100 |
| EE-305 | Electronics | 6 | - | 90 | 3 | 20 | 80 | 100 |
| PRACTICAL SUBJECTS | | | | | | | | |
| EE-306 | D.C.Machines Lab | - | 3 | 45 | 3 | 40 | 60 | 100 |
| EE-307 | Electrical Measurements lab | - | 3 | 45 | 3 | 40 | 60 | 100 |
| EE-308 | Electrical Wiring Lab | - | 3 | 45 | 3 | 40 | 60 | 100 |

| | | | | | | | | |
|--------|--------------------------------------|-----------|-----------|------------|----------|------------|------------|------------|
| EE-309 | Electronics lab | - | 6 | 90 | 3 | 40 | 60 | 100 |
| EE-310 | English Communication lab level-1 | - | 3 | 45 | 3 | 20 | 30 | 50 |
| | Total | 24 | 18 | 630 | - | 280 | 670 | 950 |

DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING
SCHEME OF INSTRUCTIONS AND EXAMINATION
CURRICULUM-2009
(IV Semester)

| Sub Code | Name of the Subject | Instruction Periods/Week | | Total Periods Per Semester | Scheme Of Examinations | | | |
|---------------------------|---|--------------------------|------------|----------------------------|------------------------|-----------------|----------------|-------------|
| | | Theory | Practicals | | Duration (hrs) | Sessional Marks | End Exam Marks | Total Marks |
| THEORY SUBJECTS | | | | | | | | |
| EE-401 | A.C. Machines – I | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-402 | Power Systems – I | 6 | - | 90 | 3 | 20 | 80 | 100 |
| EE-403 | Electrical Installation & Estimation | 4 | - | 60 | 3 | 20 | 80 | 100 |
| EE-404 | Digital Electronics & Micro Controllers | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-405 | General Mechanical Engg | 5 | - | 75 | 3 | 20 | 80 | 100 |
| PRACTICAL SUBJECTS | | | | | | | | |
| EE-406 | A.C. Machines Lab-I | - | 3 | 45 | 3 | 40 | 60 | 100 |
| EE-407 | Electrical Engg Drawing | - | 6 | 90 | 3 | 40 | 60 | 100 |
| EE-408 | Digital Electronics lab | - | 3* | 45 | 3 | 20 | 30 | 50 |
| EE-409 | Micro controllers lab | - | | | 3 | 20 | 30 | 50 |
| EE-410 | English Communication Lab Level – II | - | 3 | 45 | 3 | 20 | 30 | 50 |
| | Group Task / Seminar | - | 2 | 30 | - | - | - | - |
| | Total | 25 | 17 | 630 | - | 240 | 610 | 850 |

*Half the class will go to EE-408 and the other half will go to EE-409. Next week vice-versa.

EE-501 INDUSTRIAL TRAINING

(Practical Training)

V SEMESTER

| S.NO | Subject | Duration | Items | Max Marks | Remarks |
|---------------------------|------------------------------------|----------|--|------------|---------------|
| 1 | Practical Training in the Industry | 6 Months | 1.First Assessment (at the end of 2nd month) | 200 | |
| | | | 2. Second Assessment (at the end of 4 th month) | 200 | |
| | | | 3.Final Assessment (at the end of spell) | 200 | |
| | | | 4. Log Book & Record | 100 | 50 Marks Each |
| | | | 5. Seminar | 50 | |
| TOTAL PER SEMESTER | | | | 750 | |

The industrial training shall carry 750 marks and pass marks is **50%**.A candidate failing to secure the minimum marks should complete it at his own expenses.

During Industrial training the candidate shall put in a minimum of 90% attendance.

DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING
SCHEME OF INSTRUCTIONS AND EXAMINATION
CURRICULUM-2009
(VI Semester)

| Sub Code | Name of the Subject | Instruction Periods/Week | | Total Periods Per Semester | Scheme Of Examinations | | | |
|---------------------------|--|--------------------------|-------------|----------------------------|------------------------|-----------------|----------------|-------------|
| | | Theory | Pract-icals | | Duration (hrs) | Sessional Marks | End Exam Marks | Total Marks |
| THEORY SUBJECTS | | | | | | | | |
| EE-601 | Industrial Management and Entrepreneurship | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-602 | A.C.Machines -II | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-603 | Power Electronics | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-604(A) | Elective : Electrical Utilisation & Automation | 5 | - | 75 | 3 | 20 | 80 | 100 |
| EE-604(B) | Electric traction & PLC | | | | | | | |
| EE-604(C) | Electric traction & Renewable energy sources | | | | | | | |
| EE-605 | Power Systems - II | 5 | - | 75 | 3 | 20 | 80 | 100 |
| PRACTICAL SUBJECTS | | | | | | | | |
| EE-606 | A .C. Machines Lab – II | - | 6 | 90 | 3 | 40 | 60 | 100 |
| EE-607 | Power Electronics Lab | - | 3 | 45 | 3 | 40 | 60 | 100 |
| EE-608 | CAD Lab | - | 3* | 45 | 3 | 20 | 30 | 50 |
| EE-609 | Industrial Automation Lab | - | | | 3 | 20 | 30 | 50 |
| EE-610 | English Communication skills Laboratory Level - III | - | 2 | 30 | 3 | 20 | 30 | 50 |
| | Group Task / Seminar | - | 3 | 45 | - | - | - | - |
| | Total | 25 | 17 | 630 | - | 240 | 610 | 850 |

*Half the class will go to EE-608 and the other half will go to EE-609. Next week vice-versa.