



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

Course of study and Scheme Examination of Diploma First Semester (2005-06) in Civil/Mechanical/Electrical/Metallurgical Engineering/Instrumentation/Production Technology/Mining & Mine Surveying

SEMESTER - I

| S. No | Subject Code | Board of Study | Subject | Periods Per Week | | | Scheme of Examination | | | | | Total Marks | Credit [L+[T+P]] 2 |
|--------------|--------------|------------------|--------------------------------|------------------|-----------|-----------|-----------------------|------------|------------|------------|-----------|-------------|--------------------------|
| | | | | L | T | P | Theory | | | Practical | | | |
| | | | | | | | ESE | CT | TA | ESE | TA | | |
| 1 | 200111 | Humanities | Communication Skill-I | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 2 | 200112 | Basic Science | Applied Maths-I | 3 | 2 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 3 | 200113 | Basic Science | Applied Physics | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 4 | 200114 | Basic Science | Applied Chemistry | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 5 | 200115 | Civil Engg. | Environmental Engg. | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 6 | 200121 | Mechanical Engg. | Work Shop Practice (Theory) | 1 | - | - | - | - | 20 | - | - | 20 | 1 |
| 7 | 200122 | Basic Science | Applied Physics Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 8 | 200123 | Basic Science | Applied Chemistry Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 9 | 200124 | Mechanical Engg. | Work Shop Practice (Practical) | - | - | 8 | - | - | - | 100 | 40 | 140 | 4 |
| Total | | | | 16 | 06 | 14 | 500 | 100 | 120 | 200 | 80 | 1000 | 29 |

L – Lecturer,

T – Tutorial,

P – Practical,

ESE – End Semester Exam,

CT – Class Test, TA – Teachers Assessment

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI, CHHATTISGARH

DIPLOMA PROGRAMME IN CIVIL/MECHANICAL/ELECTRICAL/METALLURGICAL ENGINEERING

Semester – II

| S. No | Board of Study | Subject Code | Course | Periods/Week | | | Scheme of Examination | | | | | Credit L+(T+P)/2 | |
|--------------|--------------------------|--------------|---|--------------|----------|-----------|-----------------------|------------|------------|------------|------------|---------------------|-------------|
| | | | | L | T | P | Theory | | | Practical | | | Total Marks |
| | | | | | | | ESE | CT | TA | ESE | TA | | |
| 1 | Humanities | 200211 (46) | Communication skills – II | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 2 | Basic Science | 200212 (14) | Applied Maths – II | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 3 | Mechanical Engineering | 200213 (37) | Applied Mechanics | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 4 | Computer Science & Engg. | 200214 (22) | Computer Fundamentals & its Applications | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 5 | Mechanical Engineering | 200215 (37) | Engineering Drawing | 2 | 4 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 6 | Computer Science & Engg. | 200221 (22) | Computer Fundamentals & Applications Lab | - | - | 6 | - | - | - | 100 | 20 | 120 | 3 |
| 7 | Mechanical Engineering | 200222 (37) | Applied Mechanics Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| 8 | Mechanical Engineering | 200223 (37) | Basic Non-Conventional Energy Sources Lab | 1 | - | 1 | - | - | - | 50 | 20 | 70 | 2 |
| 9 | Humanities | 200224 (46) | PPA | - | - | 2 | - | - | - | - | 40 | 40 | 1 |
| TOTAL | | | | 17 | 8 | 11 | 500 | 100 | 100 | 200 | 100 | 1000 | 29 |

PPA : Proficiency in Professional Activities.

L : Lecture ; T : Tutorial, P : Practical

ESE – End of Semester Exam.; CT – Class Test; TA- Teacher’s Assessment.

CHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

COURSE OF STUDY AND SCHEME OF EXAMINATION OF DIPLOMA PROGRAM IN ELECTRICAL ENGINEERING

SEMESTER – III

| S No. | Board of Study | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/2 |
|--------------|----------------|----------------|--|-----------------|----------|-----------|-----------------------|------------|-----------|------------|------------|-------------|------------------|
| | | | | | | | Theory | | | Practical | | | |
| | | | | L | T | P | ESE | CT | TA | ESE | TA | | |
| 1 | Electrical | 224311 (24) | Elements of Electrical Engineering | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 2 | Electrical | 224312 (24) | Electrical Drawing | 3 | 3 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 3 | Mech. | 224313 (37) | Fundamentals of Mechanical Engineering | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 4 | Electronics | 224314 (28) | Basic Electronics | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 5 | Electrical | 224315 (24) | Electrical Circuit | 4 | 1 | - | 100 | 20 | 10 | | | 130 | 5 |
| 6 | Electrical | 224321 (24) | Elements of Electrical Engineering Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 7 | Mechanical | 224322 (37) | Fundamentals of Mechanical Engineering Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| 8 | Elex. & Telc. | 224323 (28) | Basic Electronics Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 9 | Electrical | 224324 (24) | Electrical Circuit Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| 10 | Electrical | 224325 (24) | Electrical Workshop | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| Total | | | | 17 | 7 | 12 | 500 | 100 | 50 | 250 | 100 | 1000 | 30 |

L-Lecture

T-Tutorial

P- Practical

ESE-End Semester Exam

CT-Class Test ,

TA-Teachers Assessment

CHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

COURSE OF STUDY AND SCHEME OF EXAMINATION OF DIPLOMA PROGRAM IN ELECTRICAL ENGINEERING

SEMESTER – IV

| S No. | Board of Study | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/2 |
|--------------|----------------|----------------|---|-----------------|----------|-----------|-----------------------|------------|-----------|------------|------------|-------------|------------------|
| | | | | | | | Theory | | | Practical | | | |
| | | | | L | T | P | ESE | CT | TA | ESE | TA | | |
| 1 | Electrical | 224411 (24) | Electrical Measurements and Measuring Instruments | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 2 | Electrical | 224412 (24) | Electrical Machines -I | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 3 | Electrical | 224413 (24) | Generation Transmission & Distribution | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 4 | Mechanical | 200415 (37) | Industrial Management | 4 | - | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 5 | Electronics | 224415 (28) | Digital Electronics | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 6 | Electrical | 224421 (24) | Electrical Measurements and Measuring Instruments Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 7 | Electrical | 224422 (24) | Electrical Machines -I Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 8 | Electrical | 224423 (24) | Generation Transmission & Distribution Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| 9 | Electronics | 224424 (28) | Digital Electronics Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| 10 | Electrical | 224425 (24) | Mini Project | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| Total | | | | 20 | 4 | 12 | 500 | 100 | 50 | 250 | 100 | 1000 | 31 |

L-Lecture

ESE-End Semester Exam

T-Tutorial

CT-Class Test

P- Practical

TA-Teachers Assessment

Note : Industrial Training of 4 weeks will be carried out in summer vacation, after the completion of 4th semester, and evaluation will be done in fifth semester

CHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

COURSE OF STUDY AND SCHEME OF EXAMINATION OF DIPLOMA PROGRAM IN ELECTRICAL ENGINEERING

SEMESTER - V

| S No. | Board of Study | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/2 |
|--------------|----------------|----------------|--|-----------------|----------|-----------|-----------------------|------------|-----------|------------|------------|-------------|------------------|
| | | | | | | | Theory | | | Practical | | | |
| | | | | L | T | P | ESE | CT | TA | ESE | TA | | |
| 1 | Electrical | 224511 (24) | Instrumentation & Control | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 2 | Electrical | 224512 (24) | Estimation and Costing | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 3 | Electrical | 224513 (24) | Power Electronics | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 4 | Electrical | 224514 (24) | Power System Operation and Control | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 5 | Electrical | 224515 (24) | Electrical Machines -II | 4 | 1 | - | 100 | 20 | 10 | | | 130 | 5 |
| 6 | Electrical | 224521 (24) | Instrumentation & Control Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 7 | Electrical | 224522 (24) | Power Electronics lab | - | - | 4 | - | - | - | 50 | 20 | 70 | 2 |
| 8 | Electrical | 224523 (24) | Power System Operation and Control Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 9 | Electrical | 224524 (24) | Electrical Machines -II | - | - | 4 | - | - | - | 50 | 20 | 70 | 2 |
| 10 | Electrical | 224525 (24) | *Industrial Training/Report Writing, Seminar | - | - | 1 | - | - | - | 50 | 20 | 70 | 1 |
| Total | | | | 17 | 5 | 15 | 500 | 100 | 50 | 250 | 100 | 1000 | 31 |

L-Lecture

ESE-End Semester Exam

T-Tutorial

CT-Class Test ,

P- Practical

TA-Teachers Assessment

* Industrial Training of 4 weeks will be carried out in summer vacation, after the completion of 4th semester, and evaluation will be done in fifth semester

CHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

COURSE OF STUDY AND SCHEME OF EXAMINATION OF DIPLOMA PROGRAM IN ELECTRICAL ENGINEERING

SEMESTER – VI

| S No. | Board of Study | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/2 |
|--------------|------------------|----------------|---|-----------------|----------|-----------|-----------------------|------------|-----------|------------|------------|-------------|------------------|
| | | | | | | | Theory | | | Practical | | | |
| | | | | L | T | P | ESE | CT | TA | ESE | TA | | |
| 1 | Electrical | 224611 (24) | Electric Traction | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 2 | Electrical | 224612 (24) | Switchgear and Protection | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 3 | Electrical | 224613 (24) | Electrical Installation Maintenance and Testing | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 4 | Electrical | 224614 (24) | Utilization of Electrical Power | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 5 | Mechanical Engg. | 200615 (37) | Entrepreneurship Development | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 6 | Electrical | 224621 (24) | Project-Industry based | - | - | 5 | - | - | - | 50 | 20 | 70 | 3 |
| | Electrical | 224622 (24) | Electric Traction Lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 7 | Electrical | 224623 (24) | Switchgear and Protection lab | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 |
| 9 | Electrical | 224624 (24) | Electrical Installation Maintenance and Testing Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| | Electrical | 224625 (24) | Utilization of Electrical Power Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| Total | | | | 16 | 5 | 15 | 500 | 100 | 50 | 250 | 100 | 1000 | 30 |

L-Lecture
ESE-End Semester Exam

T-Tutorial
CT-Class Test ,

P- Practical
TA-Teachers Assessment