



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+ $\frac{T+P}{2}$] |
|--------------|--------------|------------------|--------------------------------|------------------|-----------|-----------|-----------------------|------------|------------|------------|-----------|-------------|---------------------------------|
| | | | | | | | Theory | | | Practical | | | |
| | | | | L | T | P | 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

DIPLOMA PROGRAMME IN INSTRUMENTATION

Semester – II

COURSE OF STUDY AND SCHEME OF EXAMINATION

| S.No. | Board of Studies | Subject Code | Subject | Periods/week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/2 |
|-------|-------------------------|--------------|---|--------------|---|----|-----------------------|-----|-----|-----------|-----|-------------|---------------------|
| | | | | L | T | P | Theory | | | Practical | | | |
| | | | | | | | ESE | CT | TA | ESE | TA | | |
| 1 | Humanities | 200211 (46) | Communication Skill-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 and its Application | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 5 | Mechanical Engineering | 200215(37) | Engg. Drawing | 2 | 4 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 6 | Computer Science & Engg | 200221 (22) | Computer Fundamentals and its Application Lab | - | - | 6 | - | - | - | 100 | 20 | 120 | 3 |
| 7 | Mechanical Engineering | 200222 (37) | Applied Mechanics Lab | - | - | 2 | - | - | - | 50 | 20 | 70 | 1 |
| 8 | Humanities | 200224 (46) | PPA | - | - | 2 | - | - | - | - | 40 | 40 | 1 |
| 9 | Elex. and Teclcom. Engg | 234221 (28) | Electronic Workshop | - | - | 3 | - | | | 50 | 20 | 70 | 2 |
| Total | | | | 16 | 8 | 13 | 500 | 100 | 100 | 200 | 100 | 1000 | 29 |

PPA - PROFICIENCY IN PROFESSIONAL ACTIVITY

L- LECTURE, T. TUTORIAL, P-PRACTICAL.

ESE- END OF SEMESTER EXAMINATION, CT-CLASS TEST, T – TEACHER’S ASSESSMENT.

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

DIPLOMA IN INSTRUMENTATION ENGINEERING SEMESTER – III COURSE OF STUDY AND SCHEME OF EXAMINATION

| S.No. | Board of Studies | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+[(T+P)/2] |
|--------------|----------------------------|----------------|--|-----------------|----------|-----------|-----------------------|------------|------------|------------|-----------|-------------|-----------------------|
| | | | | L | T | P | Theory | | | Practical | | | |
| | | | | | | | ESE | CT | TA | ESE | TA | | |
| 1 | Electronics & Telcomm Engg | 234311 (28) | Basic Electronics & Devices | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 2 | Electronics & Telcomm Engg | 200313 (28) | Electrical & Electronic Measurements | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 3 | Computer Engg. | 200315 (22) | Computer Hardware Installation & Maintenance | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 4 | Electrical Engg | 234314 (24) | Fundamental of Electrical Engg. | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 5 | Electronics & Telcomm Engg | 200312 (28) | Digital Electronics | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 6 | Electronics & Telcomm Engg | 234321 (28) | Basic Electronics & Devices, Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 7 | Electronics & Telcomm Engg | 200323 (28) | Electrical & Electronic Measurement, Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 8 | Computer Engg. | 200325 (22) | Computer Hardware Installation & Maintenance | - | - | 4 | - | - | - | 50 | 10 | 60 | 2 |
| 9 | Electrical Engg | 234324 (24) | Fundamental Of Electrical Engg. Lab | - | - | 3 | - | - | - | 50 | 10 | 60 | 2 |
| 10 | Electronics & Telcomm Engg | 200322 (28) | Digital Electronics Lab | - | - | 3 | - | - | - | 50 | 10 | 60 | 2 |
| Total | | | | 17 | 5 | 14 | 500 | 100 | 100 | 250 | 50 | 1000 | 30 |

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

DIPLOMA IN INSTRUMENTATION ENGINEERING

SEMESTER - IV

| S.No. | Board of Studies | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/ 2 |
|--------------|----------------------------|----------------|------------------------------------|-----------------|----------|-----------|-----------------------|------------|-----------|------------|-----------|-------------|----------------------|
| | | | | L | T | P | Theory | | | Practical | | | |
| | | | | | | | ESE | CT | TA | ESE | TA | | |
| 1 | Electrical Engg. | 234411 (24) | Networks Analysis | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 2 | Mechanical | 234412 (37) | Mechanical Engineering | 3 | 1 | - | 100 | 20 | 10 | - | - | 130 | 4 |
| 3 | Instrumentation | 234413 (34) | Instrumentation | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 4 | Electronics & Telcomm Engg | 234414 (28) | Microprocessor And Application | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 |
| 5 | Electronics & Telcomm Engg | 200414 (28) | Power Electronics | 4 | 1 | | 100 | 20 | 20 | | | 140 | 5 |
| 6 | Electrical Engg. | 234421 (24) | Network Analysis, Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 7 | Mechanical Engg. | 234422 (37) | Mechanical Engineering Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 8 | Instrumentation | 234423 (34) | Instrumentation Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 9 | Electronics & Telcomm Engg | 234424 (28) | Microprocessor And Application Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 10 | Electronics & Telcomm Engg | 200423 (28) | Power Electronics Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 |
| 11 | Instrumentation | 234426(34) | Minor Project | - | - | 2 | - | - | - | 20 | 10 | 30 | 1 |
| Total | | | | 19 | 5 | 12 | 500 | 100 | 70 | 270 | 60 | 1000 | 30 |

Note : Industrial Training one month will be organized after 4th semester examination and it's evaluation will be done in 5th semester.

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

DIPLOMA IN INSTRUMENTATION ENGINEERING

SEMESTER - V

| S.No. | Board of Studies | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | Total Marks | Credit L+(T+P)/ 2 |
|--------------|-------------------------------|----------------|--|-----------------|----------|-----------|-----------------------|------------|------------|------------|------------|-------------|----------------------|
| | | | | L | T | P | Theory | | | Practical | | | |
| | | | | | | | ESE | CT | TA | ESE | TA | | |
| 1 | Mechanical Engg. | 234511 (37) | Industrial Management | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 2 | Electronics & Telcomm Engg | 234512 (28) | Advance Microprocessor And Micro controller | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 3 | Mechanical Engg. | 234513 (37) | Mechanical Measurement | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 4 | Instrumentation | 234514 (34) | Control System | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 |
| 5 | Electronics & Telcomm Engg | 234515 (28) | Electronic System Design | 3 | 1 | - | 100 | 20 | 20 | - | - | 140 | 4 |
| 6 | Electronics & Telcomm Engg | 234521 (28) | Advance Microprocessor And Microcontroller | - | - | 2 | - | - | - | 40 | 20 | 60 | 1 |
| 7 | Mechanical Engg. | 234522 (37) | Mechanical Measurement | - | - | 2 | - | - | - | 40 | 20 | 60 | 1 |
| 8 | Instrumentation | 234523 (34) | Control System | - | - | 2 | - | - | - | 40 | 20 | 60 | 1 |
| 9 | Electronics & Telcomm Engg | 234524 (28) | Computer Aided Design & Drafting Lab | - | - | 3 | - | - | - | 40 | 20 | 60 | 2 |
| 10 | Instrumentation | 234525 (34) | Industrial Training* | - | - | 1 | - | - | - | 40 | 20 | 60 | 1 |
| Total | | | | 19 | 5 | 10 | 500 | 100 | 100 | 200 | 100 | 1000 | 30 |

*Industrial Training of one month will be organized after 4th semester examination and it's evaluation will be done in 5th semester.

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

DIPLOMA IN INSTRUMENTATION ENGINEERING

SEMESTER - VI

| S.No. | Board of Studies | Subject Code | Subject | Period per week | | | Scheme of Examination | | | | | | Total Marks | Credit L+(T+P)/ 2] |
|-------|----------------------------|----------------|--------------------------------|-----------------|---|----|-----------------------|-----|----|-----------|----|------|-------------|-----------------------|
| | | | | L | T | P | Theory | | | Practical | | | | |
| | | | | | | | ESE | CT | TA | ESE | TA | | | |
| 1 | Instrumentation | 234611 (34) | Process Control | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 | |
| 2 | Electronics & Telcomm Engg | 234612 (28) | Communication Engg | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 | |
| 3 | Instrumentation | 234613 (34) | Advance Instrumentation | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 | |
| 4 | Instrumentation | 234614 (34) | Biomedical Instrumentation | 4 | 1 | - | 100 | 20 | 20 | - | - | 140 | 5 | |
| 5 | Mechanical Engg. | 200615 (37) | Entrepreneurship Development | 4 | 1 | - | 100 | 20 | 10 | - | - | 130 | 5 | |
| 6 | Instrumentation | 234621 (34) | Major Project | - | - | 3 | - | - | - | 50 | 20 | 70 | 2 | |
| 7 | Instrumentation | 234622 (34) | Process Control Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 | |
| 8 | Electronics & Telcomm Engg | 234623 (28) | Communication Engg Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 | |
| 9 | Instrumentation | 234624 (34) | Advance Instrumentation Lab | - | - | 2 | - | - | | 50 | 10 | 60 | 1 | |
| 10 | Instrumentation | 234625 (34) | Biomedical Instrumentation Lab | - | - | 2 | - | - | - | 50 | 10 | 60 | 1 | |
| Total | | | | 20 | 5 | 11 | 500 | 100 | 90 | 250 | 60 | 1000 | 31 | |