



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY

Courses of Study and Scheme of Examination of B.E. First Year (2012-13)
Common to all branches of Engineering except Bio-Tech. & Bio-Medical Engg.

FIRST SEMESTER

| S. No | Board of Study | Subject Code | Subject | Periods Per Week | | | Scheme of Examination | | | Total Marks | Credit [L+[T+P] 2 |
|-------|------------------------|--------------|--|------------------|---|----|-----------------------|-----|-----|-------------|-------------------------|
| | | | | | | | Theory | | | | |
| | | | | L | T | P | ESE | CT | TA | | |
| 1 | Basic Sciences | 300114(14) | Applied Mathematics-I | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 2 | Humanities | 300111(46) | Professional Communication in English | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 3 | Basic Sciences | 300112(11) | Applied Chemistry | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 4 | Mechanical Engineering | 300211(37) | Engineering Graphics | 2 | 1 | 4 | 80 | 20 | 20 | 120 | 5 |
| 5 | Elect. Engg. | 300118(24) | Elements of Electrical Engineering (New) | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 6 | Basic Sciences | 300121(11) | Applied Chemistry (Lab) | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 7 | Elect. Engg. | 300126(24) | Elements of Electrical Engineering (Lab) | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 8 | Mechanical Engineering | 300124(37) | Workshop Practice | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Humanities | 300127(46) | Library & Seminar | - | - | 1 | - | - | 20 | 20 | 1 |
| TOTAL | | | | 18 | 4 | 12 | 520 | 100 | 180 | 800 | 29 |

L-Lecture, T-Tutorial, P-Practical, ESE – End Semester Exam, CT- Class Test, TA- Teacher's Assessment

Note: (i) The teaching in the 1st and 2nd semester will be divided in two groups consisting of various branches as shown below: P1-GROUP: Electronics & Communication, Information Technology, Electronics & Instrumentation, Electrical, Chemical, Electrical & Electronics; Q1-GROUP: Computer Science, Mechanical, Civil, Mining and Applied Electronics & Instrumentation, Metallurgy Mechatronics.

(ii) Applied Mathematics-I will be taught to both the groups in the first semester.

(iii) Library & seminar will be conducted by the relevant discipline/humanities as decided by the Principal.



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY

Courses of Study and Scheme of Examination of B.E. First Year (2012-13)
Common to all branches of Engineering except Bio-Tech. & Bio-Medical Engg.

SECOND SEMESTER

| S. No | Board of Study | Subject Code | Subject | Periods Per Week | | | Scheme of Examination | | | Total Marks | Credit [L+[T+P] 2 |
|-------|------------------|--------------|---|------------------|---|---|-----------------------|-----|-----|-------------|----------------------|
| | | | | | | | Theory | | | | |
| | | | | L | T | P | ESE | CT | TA | | |
| 1 | Basic Sciences | 300214(14) | Applied Mathematics-II | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 2 | Civil Engg. | 300212(20) | Environment & Ecology | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 3 | Basic Sciences | 300218(15) | Applied Physics (New) | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 4 | Civil Engg. | 300216(20) | Basic Civil Engineering | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 5 | Mechanical Engg. | 300219(37) | Fundamental of Mechanical Engineering (New) | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 6 | Basic Sciences | 300228(15) | Applied Physics (Lab) | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 7 | Mechanical Engg. | 300229(37) | Mechanical Engineering (Lab) | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 8 | Humanities | 300221(46) | Communication Skills (Lab) | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Humanities | 300220(46) | Library & Seminar | - | - | 1 | - | - | 20 | 20 | 1 |
| TOTAL | | | | 20 | 4 | 8 | 520 | 100 | 180 | 800 | 29 |

L-Lecture, T-Tutorial, P-Practical, ESE – End Semester Exam, CT- Class Test, TA- Teacher's Assessment

Note:

- The teaching in the 1st and 2nd semester will be divided in two groups consisting of various branches as shown below:
P1-GROUP: Electronics & Communication, Information Technology, Electronics & Instrumentation, Electrical, Chemical, Electrical & Electronics; Q1-GROUP: Computer Science, Mechanical, Civil, Mining and Applied Electronics & Instrumentation, Metallurgy, Mechatronics.
- Applied Mathematics-II will be taught to both the groups in the second semester.
- Library & seminar will be conducted by the relevant discipline/humanities as decided by the Principal.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION

BE (Metallurgical Engineering) III Semester

| Sl. No. | Board of Study | Subject Code | Subject | Periods per week | | | Scheme of Exam | | | Total Marks | Credit L+(T+P)/2 |
|---------|---------------------|--------------|--|------------------|---|----|----------------|-----|-----|-------------|------------------|
| | | | | L | T | P | Theory/ Pract. | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Applied Mathematics | 338351(14) | Mathematics – III | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 2 | Metallurgical Engg. | 338352(38) | Introduction to Materials Science | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 3 | Metallurgical Engg. | 338353(38) | Geology of Minerals & Ore Dressing | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 4 | Applied Chemistry | 338354(11) | Chemical Characterization of Materials | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 5 | Metallurgical Engg. | 338355(38) | Thermodynamics & Kinetics | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 6 | Metallurgical Engg. | 338356(38) | Introduction to Physical Metallurgy | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 7 | Applied Chemistry | 338361(11) | Chemical Characterization of Materials Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 8 | Metallurgical Engg. | 338362(38) | Geology of Minerals & Ore Dressing Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Metallurgical Engg. | 338363(38) | Physical Metallurgy Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 10 | Metallurgical Engg. | 338364(38) | Materials Science Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 11 | Humanities | 338365(46) | Value Education | - | - | 2 | - | - | 40 | 40 | 1 |
| 12 | | | Library | - | - | 1 | - | - | - | - | - |
| Total | | | | 20 | 5 | 15 | 640 | 120 | 240 | 1000 | 34 |

L: Lecture, T: Tutorial, P: Practical, ESE: End Semester Exam, CT: Class Test, TA: Teachers Assessment

Note: Duration of all theory papers will be of Three Hours.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION

BE (Metallurgical Engineering) IV Semester

| Sl. No. | Board of Study | Subject Code | Subject | Periods per week | | | Scheme of Exam | | | Total Marks | Credit L+(T+P)/2 |
|---------|---------------------|--------------|---|------------------|---|----|----------------|-----|-----|-------------|------------------|
| | | | | L | T | P | Theory/ Pract. | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Appl. Mathematics | 338451(14) | Numerical Analysis | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 2 | Electrical Engg. | 338452(24) | Electrical Technology & Electronics | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 3 | Metallurgical Engg. | 338453(38) | Testing of Materials | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 4 | Metallurgical Engg. | 338454(38) | Principles of Extractive Metallurgy | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 5 | Metallurgical Engg. | 338455(38) | Fuels, Furnaces and Refractories | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 6 | Metallurgical Engg. | 338456(38) | Engineering Economics | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 7 | Electrical Engg. | 338461(24) | Electrical Technology & Electronics Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 8 | Metallurgical Engg. | 338462(38) | Testing of Materials Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Metallurgical Engg. | 338463(38) | Non-Destructive Testing Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 10 | Metallurgical Engg. | 338464(38) | Fuels, Furnaces and Refractories Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 11 | Humanities | 338465(46) | Health, Hygiene & Yoga | - | - | 2 | - | - | 40 | 40 | 1 |
| 12 | | | Library | - | - | 1 | - | - | - | - | - |
| Total | | | | 19 | 6 | 15 | 640 | 120 | 240 | 1000 | 34 |

L: Lecture, T: Tutorial, P: Practical, ESE: End Semester Exam, CT: Class Test, TA: Teachers Assessment

Note (1): Duration of all theory papers will be of Three Hours.

Note (2): Industrial Training of six weeks is mandatory for B.E. student. It is to be completed in two parts. The first part will be in summer after IV sem. after which students have to submit a training report which will be evaluated by the college teachers during B.E. V SEM.

Chhattisgarh Swami Vivekanand Technical University

Bhilai (C. G.)

Scheme of Teaching and Examination B.E. (V Semester) Metallurgical Engineering

| S. No | Boardof Study | Subject Code | Subject | Periods per Week | | | Scheme of Examination | | | Total Marks | Credit L+(T+P)/2 |
|-------|---------------------------|--------------|---|------------------|---|----|-----------------------|-----|-----|-------------|------------------|
| | | | | L | T | P | Theory/practical | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Metallurgical Engineering | 338551 (38) | Transport Phenomenon in Metallurgical Process | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 2 | Metallurgical Engineering | 338552 (38) | Industrial Pollution and Control | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 3 | Metallurgical Engineering | 338553 (38) | Iron Making | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 4 | Metallurgical Engineering | 338554 (38) | Mechanical Working Processes | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 5 | Metallurgical Engineering | 338555 (38) | Non Ferrous Extraction Metallurgy | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 6 | Metallurgical Engineering | 338556 (38) | Phase Diagram & Phase Transformation | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 7 | Metallurgical Engineering | 338561 (38) | Transport Phenomenon Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 8 | Metallurgical Engineering | 338562 (38) | Mechanical Working Processes Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Metallurgical Engineering | 338563 (38) | Phase Transformation Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 10 | Metallurgical Engineering | 338564 (38) | Iron MakingLab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 11 | Humanities | 300565 (46) | Personality Development | - | - | 2 | - | | 20 | 20 | 1 |
| 12 | Metallurgical Engineering | 338566 (38) | *Practical Training Evaluation and Library | - | - | 1 | - | - | 20 | 20 | 1 |
| Total | | | | 20 | 5 | 15 | 640 | 120 | 240 | 1000 | 35 |

L: Lecture

T: Tutorial

P: Practical

ESE: End Semester Examination

CT: Class Test

TA: Teacher's Assessment

** Industrial Training of eight weeks is mandatory for B.E. student. It is to be completed in two parts. The first part will be in summer after IV sem. after which students have to submit a training report which will be evaluated by the college teachers during B.E. V semester.*

Chhattisgarh Swami Vivekanand Technical University

Bhilai (C.G.)

Scheme of Teaching and Examination B.E. (VI Semester) Metallurgical Engineering

| S. No | Board of Study | Subject Code | Subject | Periods per Week | | | Scheme of Exam | | | Total Marks | Credit L+(T+P)/2 |
|-------|---------------------------|--------------|---|------------------|---|----|------------------|-----|-----|-------------|------------------|
| | | | | L | T | P | Theory/practical | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Metallurgical Engineering | 338651 (38) | Furnace Technology & Instrumentation | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 2 | Metallurgical Engineering | 338652 (38) | Theory and Technology of Heat Treatment | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 3 | Metallurgical Engineering | 338653 (38) | Computer Programming and Applications in Metallurgical Industries | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 4 | Metallurgical Engineering | 338654 (38) | Metal Joining Processes | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 5 | Metallurgical Engineering | 338655 (38) | Steel Making | 3 | 1 | - | 80 | 20 | 20 | 120 | 4 |
| 6 | ReferTable- I | | Professional Elective-I | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 7 | Metallurgical Engineering | 338661 (38) | Furnace Technology Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 8 | Metallurgical Engineering | 338662 (38) | Computer Programming and Applications in Metallurgical Industries Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Metallurgical Engineering | 338663 (38) | Metal Joining Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 10 | Metallurgical Engineering | 338664 (38) | Theory and Technology of Heat Treatment Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 11 | Management | 300665(76) | Managerial Skills | - | - | 2 | - | - | 40 | 40 | 1 |
| 12 | | | Library | - | - | 1 | - | - | - | - | - |
| Total | | | | 20 | 5 | 15 | 640 | 120 | 240 | 1000 | 34 |

L: Lecture **T:** Tutorial **P:** Practical
ESE: End Semester Examination **CT:** Class Test **TA:** Teachers' Assessment

Note: Industrial Training of eight weeks is mandatory for B.E. students. It is to be completed in two equal parts. The first part must have been completed in summer after IV semester The second part to be completed during summer after VI semester after which students have to submit a training report which will be evaluated by college teachers during B.E. VII semester

Table – 1: Professional Elective - I

| S.No. | Board of Study | Subject Code | Subject |
|-------|---------------------------|--------------|--|
| 1 | Metallurgical Engineering | 338671 (38) | X-Ray Diffraction & Transmission Electron Microscopy |
| 2 | Metallurgical Engineering | 338672 (38) | Metallurgy of Rare Metals |
| 3 | Metallurgical Engineering | 338673 (38) | Composite Materials |

Note:(1)- 1/4th of total strength of student's subject to minimum of twenty students is required to offer in elective in the college in particular academic session.

Note:(2)- Choice of elective code once made for an examination cannot be changed in future examinations.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of Teaching and Exam

B.E. VII Semester Metallurgical Engineering

| S. No | Board of Study | Subject Code | Subject | Periods per Week | | | Scheme of Exam | | | Total Marks | Credit L+ (T+P)/2 |
|-------|---------------------------|--------------|---|------------------|---|----|------------------|-----|-----|-------------|-------------------|
| | | | | L | T | P | Theory/practical | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Metallurgical Engineering | 338731(38) | Foundry Technology | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 2 | Metallurgical Engineering | 338732(38) | Deformation behavior of Materials | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 3 | Metallurgical Engineering | 338733(38) | Corrosion and Degradation of Materials | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 4 | Metallurgical Engineering | 338734(38) | Alloys Their Properties and Selection | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 5 | Refer Table – II | | Professional Elective – II | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 6 | Metallurgical Engineering | 338761(38) | Foundry Technology Lab | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 7 | Metallurgical Engineering | 338762(38) | Alloys and Their Properties and Selection Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 8 | Metallurgical Engineering | 338763(38) | Corrosion and Degradation of Materials Lab | - | - | 3 | 40 | - | 20 | 60 | 2 |
| 9 | Metallurgical Engineering | 338764(38) | Minor Project | - | - | 4 | 100 | - | 40 | 140 | 2 |
| 10 | Management | 338765(76) | Innovative and Entrepreneurial Skills | - | - | 2 | - | - | 40 | 40 | 1 |
| 11 | Metallurgical Engineering | 338766(38) | **Practical Training Evaluation and Library | - | - | 1 | - | - | 40 | 40 | 1 |
| Total | | | | 20 | 5 | 15 | 620 | 100 | 280 | 1000 | 34 |

L - Lecture T - Tutorial P - Practical, ESE = End Semester Exam CT Class Test TA - Teacher's Assessment

**to be completed after VI sem and before the commencement of VII sem

Table - II

| S.No. | Board of Study | Subject Code | Subject |
|-------|---------------------------|--------------|--|
| 1 | Metallurgical Engineering | 338741 (38) | Alternative Routs of Iron and Steel Making |
| 2 | Metallurgical Engineering | 338742 (38) | Design and application for Engineering Materials |
| 3 | Metallurgical Engineering | 338743(38) | Ferro Alloy Technology |

Note: (1) - 1/4th of total strength of students subject to minimum of twenty students is required to offer in elective in the

Note: (2) - Choice of elective code once made for an examination can not be changed in future examinations.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of Teaching & Examination

B.E. VIII Semester Metallurgical Engineering

| S. No | Board of Study | Subject Code | Subject | Periods per Week | | | Scheme of Exam | | | Total Marks | Credit L+ (T+P)/2 |
|-------|---------------------------|--------------|---|------------------|---|----|------------------|-----|-----|-------------|-------------------|
| | | | | L | T | P | Theory/practical | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Metallurgical Engineering | 338831(38) | Materials Characterization | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 2 | Metallurgical Engineering | 338832(38) | Secondary Steel Making Technology | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 3 | Metallurgical Engineering | 338833(38) | Experimental Techniques in Metallurgy | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 4 | Refer Table – III | | Professional Elective – III | 4 | 1 | - | 80 | 20 | 20 | 120 | 5 |
| 5 | Refer Table – IV | | Open Elective – IV | 4 | - | - | 80 | 20 | 20 | 120 | 4 |
| 5 | Metallurgical Engineering | 338861(38) | Materials Characterization Lab | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 6 | Metallurgical Engineering | 338862(38) | Advance Steel Making Hands on Training | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 7 | Metallurgical Engineering | 338863(38) | Experimental Techniques in Metallurgy Lab | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 8 | Metallurgical Engineering | 338864(38) | Major Project | - | - | 7 | 100 | - | 80 | 180 | 4 |
| 9 | Metallurgical Engineering | 338865(38) | Report Writing and Seminar | - | - | 2 | - | - | 40 | 40 | 1 |
| | | | Library | - | - | 1 | - | - | - | - | - |
| Total | | | | 20 | 4 | 16 | 620 | 100 | 280 | 1000 | 32 |

L - Lecture T - Tutorial P - Practical, ESE = End Semester Exam CT Class Test TA - Teacher's Assessment

| Table -3 | | | |
|-----------------------------|---------------------------|--------------|-------------------------|
| Professional Elective - III | | | |
| S.No. | Board of Study | Subject Code | Subject |
| 1 | Metallurgical Engineering | 338841(38) | Powder Metallurgy |
| 2 | Metallurgical Engineering | 338842(38) | Light Metals and Alloys |

Note: (1) - 1/4th of total strength of student's subject to minimum of twenty students is required to offer in elective in the college in a particular academic session.

Note: (2) - Choice of elective code once made for an examination cannot be changed in future examinations.

Table - IV

| Open Elective –IV | | | |
|-------------------|-----------------------------------|------------|--|
| S.No. | Board of Studies | Code | Name of Subject |
| 1 | Management | 300851(76) | Enterprise Resource Planning (Except CSE & IT Branch) |
| 2 | Information Technology | 300852(33) | E-Commerce & strategic IT (Except CSE & IT Branch) |
| 3 | Management | 300853(76) | Technology Management |
| 4 | Information Technology | 300854(33) | Decision Support & Executive Information system |
| 5 | Computer Science & Engg. | 300855(22) | Software Technology |
| 6 | Management | 300856(76) | Knowledge Entrepreneurship |
| 7 | Management | 300857(76) | Finance Management |
| 8 | Management | 300858(76) | Project Planning, Management & Evaluation |
| 9 | Mechanical Engg. | 300859(37) | Safety Engineering |
| 10 | Computer Science & Engg. | 300801(22) | Bio Informatics |
| 11 | Mechanical Engg. | 300802(37) | Energy Conservation & Management |
| 12 | Nanotechnology | 300803(47) | Nanotechnology |
| 13 | Management | 300804(76) | Intellectual Property Rights |
| 14 | Mechanical Engg. | 300805(37) | Value Engineering |
| 15 | Civil Engg. | 300806(20) | Disaster Management |
| 16 | Civil Engg. | 300807(20) | Construction Management |
| 17 | Civil Engg. | 300808(20) | Ecology and Sustainable Development |
| 18 | Chem. Engg. | 300809(19) | Non Conventional Energy Sources |
| 19 | Electrical Engg. | 300810(24) | Energy Auditing & Management (Except Electrical Engg. Branch) |
| 20 | Mechanical Engg. | 300811(37) | Managing Innovation & Entrepreneurship |
| 21 | Information Technology | 300812(33) | Biometrics |
| 22 | Information Technology | 300813(33) | Information Theory & Coding |
| 23 | Computer Science & Engg. | 300814(22) | Supply Chain Management |
| 24 | Computer Science & Engg. | 300815(22) | Internet & Web Technology |
| 25 | Electrical Engg. | 300816(24) | Electrical Estimation and Costing |
| 26 | Electrical & Electronics Engg. | 300817(25) | Non Conventional Energy Sources |
| 27 | Computer Science & Engg. | 300818(22) | Big Data and Hadoop |

Note (1) 1/4th of total strength of students is required to offer an elective in the college in a particular academic session.

(2) - Choice of elective course once made for an examination cannot be changed

Table - IV

| Open Elective –IV | | | |
|-------------------|--------------------------------|------------|--|
| S.No. | Board of Studies | Code | Name of Subject |
| 1 | Management | 300851(76) | Enterprise Resource Planning (Except CSE & IT Branch) |
| 2 | Information Technology | 300852(33) | E-Commerce & strategic IT (Except CSE & IT Branch) |
| 3 | Management | 300853(76) | Technology Management |
| 4 | Information Technology | 300854(33) | Decision Support & Executive Information system |
| 5 | Computer Science & Engg. | 300855(22) | Software Technology |
| 6 | Management | 300856(76) | Knowledge Entrepreneurship |
| 7 | Management | 300857(76) | Finance Management |
| 8 | Management | 300858(76) | Project Planning, Management & Evaluation |
| 9 | Mechanical Engg. | 300859(37) | Safety Engineering |
| 10 | Computer Science & Engg. | 300801(22) | Bio Informatics |
| 11 | Mechanical Engg. | 300802(37) | Energy Conservation & Management |
| 12 | Nanotechnology | 300803(47) | Nanotechnology |
| 13 | Management | 300804(76) | Intellectual Property Rights |
| 14 | Mechanical Engg. | 300805(37) | Value Engineering |
| 15 | Civil Engg. | 300806(20) | Disaster Management |
| 16 | Civil Engg. | 300807(20) | Construction Management |
| 17 | Civil Engg. | 300808(20) | Ecology and Sustainable Development |
| 18 | Chem. Engg. | 300809(19) | Non Conventional Energy Sources |
| 19 | Electrical Engg. | 300810(24) | Energy Auditing & Management (Except Electrical Engg. Branch) |
| 20 | Mechanical Engg. | 300811(37) | Managing Innovation & Entrepreneurship |
| 21 | Information Technology | 300812(33) | Biometrics |
| 22 | Information Technology | 300813(33) | Information Theory & Coding |
| 23 | Computer Science & Engg. | 300814(22) | Supply Chain Management |
| 24 | Computer Science & Engg. | 300815(22) | Internet & Web Technology |
| 25 | Electrical Engg. | 300816(24) | Electrical Estimation and Costing |
| 26 | Electrical & Electronics Engg. | 300817(25) | Non Conventional Energy Sources |
| 27 | Computer Science & Engg. | 300818(22) | Big Data and Hadoop |

Note (1) 1/4th of total strength of students is required to offer an elective in the college in a particular academic session.

(2) - Choice of elective course once made for an examination cannot be changed