



### SCHEME OF TEACHING AND EXAMINATION

#### B Tech (Sixth Semester – Electronics and Telecommunication Engineering)

| Sl. No.      | Board of Studies                         | Courses (Subject)                      | Course Code  | Period per Week |          |           | Theory/Lab |            |            | Total Marks | Credits   |
|--------------|--|--|--------------|-----------------|----------|-----------|------------|------------|------------|-------------|-----------|
|              |  |  |              | L               | T        | P         | ESE        | CT         | TA         |             |           |
| 1.           | Electronics & Telecom.                   | VLSI Design                            | C028611(028) | 3               | 1        | -         | 100        | 20         | 30         | 150         | 4         |
| 2.           | Electronics & Telecom.                   | Antenna & Wave Propagation             | C028612(028) | 3               | 1        | -         | 100        | 20         | 30         | 150         | 4         |
| 3.           | Electronics & Telecom.                   | Digital Signal Processing              | C028613(028) | 3               | 1        | -         | 100        | 20         | 30         | 150         | 4         |
| 4.           | Professional Elective-II (Refer Table I) |  |              | 2               | 1        | -         | 100        | 20         | 30         | 150         | 3         |
| 5.           | Open Elective – I (Refer Table II)       |  |              | 2               | 0        | -         | 100        | 20         | 30         | 150         | 2         |
| 6.           | Electronics & Telecom.                   | VLSI Design lab                        | C028621(028) | -               | -        | 2         | 40         | -          | 20         | 60          | 1         |
| 7.           | Electronics & Telecom.                   | Digital Signal Processing lab          | C028622(028) | -               | -        | 2         | 40         | -          | 20         | 60          | 1         |
| 8.           | Electronics & Telecom.                   | Machine Learning Lab                   | C028623(028) | -               | -        | 2         | 40         | -          | 20         | 60          | 1         |
| 9.           | Electronics & Telecom.                   | Soft Computing lab                     | C028624(028) | -               | -        | 2         | 40         | -          | 20         | 60          | 1         |
| 10.          | Humanities                               | Technical Communication and Soft Skill | C000601(046) | -               | -        | 2         | -          | -          | 10         | 10          | -         |
| <b>Total</b> |  |  |              | <b>13</b>       | <b>4</b> | <b>10</b> | <b>660</b> | <b>100</b> | <b>240</b> | <b>1000</b> | <b>21</b> |

L – Lecturer  
P – Practical,

T – Tutorial, TA – Teacher’s Assessment  
ESE – End Semester Exam,

CT – Class Test

**Table I (Professional Elective II)**

| S.N. | Board of Studies       | Subject                           | Course Code  |
|------|------------------------|-----------------------------------|--------------|
| 1.   | Electronics & Telecom. | Information Theory and coding     | C028631(028) |
| 2.   | Electronics & Telecom. | Microelectronics Technology       | C028632(028) |
| 3.   | Electronics & Telecom. | ARM System Architecture           | C028633(028) |
| 4.   | Electronics & Telecom. | Image Processing & remote sensing | C028634(028) |
| 5.   | Electronics & Telecom. | Wireless Sensor Networks          | C028635(028) |

**Note: (1)** 1/4<sup>th</sup> of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

**(2)** Choice of elective course once made for an examination cannot be changed in future examinations.



# Chhattisgarh Swami Vivekanand Technical University (CSV TU, NEWAI (C.G.))

## B Tech (Sixth Semester)

### List of Open Elective – I (Table III ) (For 6<sup>th</sup> Semester)

| S.N. | Board of Studies                | Subject  | Course Code  |
|------|---------------------------------|--|--------------|
| 1    | Agriculture Engg.               | Food Packaging Technology                              | C000601(094) |
| 2    | Agriculture Engg                | Energy Management & Audit                              | C000602(094) |
| 3    | Agriculture Engg                | Energy Conservation & Management                       | C000603(094) |
| 4    | Agriculture Engg                | Disaster Management                                    | C000604(094) |
| 5    | Agriculture Engg                | Ecology and Sustainable Development                    | C000605(094) |
| 6    | Agriculture Engg                | Non Conventional Energy Sources                        | C000606(094) |
| 7    | Mechanical Engineering          | Safety Engineering                                     | C000607(037) |
| 8    | Mechanical Engineering          | Value Engineering                                      | C000608(037) |
| 9    | Mechanical Engineering          | Managing Innovation & Entrepreneurship                 | C000609(037) |
| 10   | Mechanical Engineering          | Environment Pollution & Control                        | C000610(037) |
| 11   | Management                      | Enterprise Resource Planning ((Except CSE & IT Branch) | C000611(076) |
| 12   | Computer Science Engg.          | Artificial Intelligence                                | C000612(022) |
| 13   | Computer Science Engg           | Quantum Computing                                      | C000613(022) |
| 14   | Computer Science Engg           | Cyber Security   | C000614(022) |
| 15   | Civil Engg                      | Construction engineering and management                | C000615(020) |
| 16   | Civil Engg                      | Metro system and engineering                           | C000616(020) |
| 17   | Civil Engg                      | Infrastructure Planning and Management                 | C000617(020) |
| 18   | Computer Science Engg           | Parallel Processing & Computing                        | C000618(022) |
| 19   | Computer Science Engg           | Cryptography & Network Security                        | C000619(022) |
| 20   | Computer Science Engg           | Cloud Computing  | C000620(022) |
| 21   | Computer Science Engg           | Computer Networks                                      | C000621(022) |
| 22   | Computer Science Engg           | Internet of Things                                     | C000622(022) |
| 23   | Computer Science Engg           | Data Structures and Algorithms                         | C000623(022) |
| 24   | Computer Science Engg           | Big Data Analytics                                     | C000624(022) |
| 25   | Electrical and Electronics Engg | Electrical Estimation and Costing                      | C000625(025) |
| 26   | Electrical and Electronics Engg | Energy Auditing and Management                         | C000626(025) |
| 27   | Management                      | Finance Management                                     | C000627(076) |
| 28   | Mechanical Engineering          | Safety Engineering                                     | C000628(037) |
| 29   | Electronics & Telecom.          | AI and Machine learning                                | C000629(028) |
| 30   | Electronics & Telecom.          | Operating Systems                                      | C000630(028) |
| 31   | Electronics & Telecom.          | Internet & Web Technology                              | C000631(028) |
| 32   | Electronics & Telecom.          | Database Management Systems (DBMS)                     | C000632(028) |
| 33   | Electronics & Telecom.          | Device Modelling                                       | C000633(028) |
| 34   | Electronics & Telecom.          | Introduction to MEMS                                   | C000634(028) |
| 35   | Mechanical Engineering          | Principles of Management                               | C000635(037) |
| 36   | Mechanical Engineering          | Advanced I.C. Engines                                  | C000636(037) |

|    |                             |   |                     |
|----|-----------------------------|---|---------------------|
| 37 | Mechanical Engineering      | Mechanical Vibrations & Condition Monitoring  | <b>C000637(037)</b> |
| 38 | Mechatronics                | Entrepreneurship Developments                 | <b>C000638(067)</b> |
| 39 | Plastic Engineering         | Heat Transfer Operation                       | <b>C000639(095)</b> |
| 40 | Plastic Engineering         | Process Economics and Management              | <b>C000640(095)</b> |
| 41 | Plastic Engineering         | Adhesive and Surface Coating                  | <b>C000641(095)</b> |
| 42 | Information Technology      | E-Commerce                                    | <b>C000642(033)</b> |
| 43 | Information Technology      | Industrial Economics and Management           | <b>C000643(033)</b> |
| 44 | Information Technology      | Project Planning & Management                 | <b>C000644(033)</b> |
| 45 | Information Technology      | Bio-Informatics                               | <b>C000645(033)</b> |
| 46 | Information Technology      | Management Information System                 | <b>C000646(033)</b> |
| 47 | <b>Chemical Engineering</b> | <b>Plant Utility &amp; Safety Engineering</b> | <b>C000647(019)</b> |
| 48 | <b>Chemical Engineering</b> | <b>Environment Pollution &amp; Control</b>    | <b>C000648(019)</b> |

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