



Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech Honours (Data Science) (First Semester)

| S.N | Board of Studies | Courses (Subject) | Course Code | Period per Week | | | Theory/Lab | | | Total Marks | Credits |
|--------------|-----------------------------------|--|--------------|-----------------|----------|----------|------------|------------|------------|-------------|-----------|
| | | | | L | T | P | ESE | CT | TA | | |
| | | | | | | | | | | | |
| 1. | Electronics and Telecommunication | Foundations of Electronics Engineering | A000171(028) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 2. | Basic Science | Engineering Mathematics-I | A000172(014) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 3. | Computer Science Engineering | Learning Programming Concept with C | A000173(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 4. | Basic Science | Fundamentals of Computational Biology | A000174(028) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 5. | Civil Engineering | Environmental Science | A000175(020) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 6. | Humanities | Professional Ethics and Life Skills | A000176(046) | 2 | - | - | 50 | 20 | 20 | 90 | 2 |
| 7. | Humanities | Language & Writing Skills | A000177(046) | 2 | - | - | 50 | 20 | 20 | 90 | 2 |
| 8. | Electronics and Telecommunication | Foundations of Electronics Engineering Lab | A000191(028) | - | - | 2 | 40 | | 20 | 60 | 1 |
| 9. | Computer Science Engineering | Learning Programming Concept with C Lab | A000192(022) | | | 2 | 40 | | 20 | 60 | 1 |
| Total | | | | 14 | 5 | 4 | 680 | 140 | 180 | 1000 | 21 |

L – Lecturer ,T – Tutorial, P – Practical , CT –ClassTest ESE – End Semester Exam TA – Teacher’s Assessment



Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech Honours (Data Science) (Second Semester)

| S.N | Board of Studies | Courses (Subject) | Course Code | Period per Week | | | Theory/Lab | | | Total Marks | Credits |
|--------------|-----------------------------------|---------------------------------|----------------|-----------------------|----------|----------|------------|------------|------------|----------------|-----------|
| | | | | L | T | P | ESE | CT | TA | | |
| | | | | | | | | | | | |
| 1. | Basic Science | Engineering Mathematics-II | A000271(014) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 2. | Computer Science Engineering | Data Structure Using C | A000272(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 3. | Computer Science Engineering | Object Oriented Programming | A000273(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 4. | Electronics and Telecommunication | Digital Logic & Design | A000274(028) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 5. | Computer Science Engineering | Python for Data Science | A000275(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 6 | Humanities | Entrepreneurship | A000276(046) | 2 | - | - | 40 | - | 20 | 60 | 2 |
| 7 | Computer Science Engineering | Data Structure Using C Lab | A000291(022) | - | - | 2 | 40 | - | 20 | 60 | 1 |
| 8. | Computer Science Engineering | Object Oriented Programming Lab | A000292(022) | | - | 2 | 40 | - | 20 | 60 | 1 |
| 9 | Computer Science Engineering | Python for Data Science Lab | A000293(022) | | - | 2 | 40 | - | 20 | 60 | 1 |
| 10 | Electronics and Telecommunication | Digital Logic & Design Lab | A000294(028) | | | 2 | 40 | | 20 | 60 | 1 |
| Total | | | | 12 | 5 | 8 | 700 | 100 | 200 | 1000 | 21 |

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Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech Honours (Data Science) (Third Semester)

| S.N | Board of Studies | Courses (Subject) | Course Code | Period per Week | | | Theory/Lab | | | Total Marks | Credits |
|--------------|---------------------------|---|----------------|-----------------------|---------------------------|-------------------------------|--------------|------------|------------|----------------|-----------|
| | | | | L | T | P | ESE | CT | TA | | |
| | | | | 1. | Computer Science Engg. | Probability and Statistics | B000371(022) | 2 | 1 | | |
| 2. | Computer Science Engg. | Analysis & Design of Algorithm | B000372(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 3. | Computer Science Engg. | Computer Organization and Architecture | B000373(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 4. | Computer Science Engg. | Discrete Structure | B000374(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 5. | Computer Science Engg. | Database Management System | B000375(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 6. | Computer Science Engg. | Analysis & Design of Algorithm Lab | B000391(022) | | - | 2 | 40 | - | 20 | 60 | 1 |
| 7. | Computer Science Engg. | Database Management System lab | B000392(022) | | | 2 | 40 | | 20 | 60 | 1 |
| 8. | Computer Science Engg. | Independent Project | B000393(022) | | | 8 | 120 | - | 40 | 160 | 4 |
| 9. | Non Credit Course | Personality Development | B000394(022) | | | 2 | - | - | 20 | 20 | - |
| Total | | | | 10 | 5 | 14 | 700 | 100 | 200 | 1000 | 21 |

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Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech Honours (Data Science) (Fourth Semester)

| S.N | Board of Studies | Courses (Subject) | Course Code | Period per Week | | | Theory/Lab | | | Total Marks | Credits |
|--------------|---------------------------|--|----------------|-----------------------|----------|----------|------------|------------|------------|----------------|-----------|
| | | | | L | T | P | ESE | CT | TA | | |
| | | | | | | | | | | | |
| 1. | Computer Science Engg. | Computer Network | B000471(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 2. | Computer Science Engg. | Artificial Intelligence: Principles and Applications | B000472(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 3. | Computer Science Engg. | Operating system | B000473(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 4. | Computer Science Engg. | Theory of computation | B000474(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 5. | Computer Science Engg. | R for Data Science | B000475(022) | 2 | 1 | - | 100 | 20 | 20 | 140 | 3 |
| 6 | Computer Science Engg. | Data Visualization | B000476(022) | 2 | 1 | - | 80 | 20 | 20 | 120 | 3 |
| 7 | Computer Science Engg. | Computer Network Lab | B000491(022) | | - | 2 | 40 | - | 20 | 60 | 1 |
| 8. | Computer Science Engg. | Data Visualization lab | B000492(022) | | | 2 | 40 | | 20 | 60 | 1 |
| 9 | Computer Science Engg. | R for Data Science lab | B000492(022) | | | 2 | 40 | | 20 | 60 | 1 |
| Total | | | | 12 | 6 | 6 | 700 | 120 | 180 | 1000 | 21 |

L – Lecturer ,T – Tutorial, P – Practical , CT –Class Test ESE – End Semester Exam TA – Teacher’s Assessment