



Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

Scheme for B. Tech. First Semester (Artificial Intelligence)

| S.No. | Board of Studies (BOS) | Courses (Subject) | Subject Code | Course Category | Period per Week | | | Scheme of Examination | | | Total Marks | Credits | Assessment/assignment hours per week | Teaching Hours/sem |
|--------------------------------------|------------------------------|------------------------------------------------------|--------------|-----------------|-----------------|----------|-----------|-----------------------|------------|------------|-------------|------------|--------------------------------------|--------------------|
| | | | | | L | T | P | Theory/Lab | | | | | | |
| | | | | | | | | ESE | CT | TA | | | | |
| 1. | Applied Mathematics | Engineering Mathematics-1 | 3000A02AT014 | BFC-BSC | 3 | 1 | | 100 | 20 | 20 | 140 | 4 | 1 | 60 |
| 2. | Applied Physics | Engineering Physics (Circuit) | 3000A03AT015 | BFC-BSC | 3 | - | - | 100 | 20 | 20 | 140 | 3 | 1 | 45 |
| 3. | Electrical Engineering | Basic Electrical Engineering | 3000A04AT024 | BFC-ESC | 3 | - | - | 100 | 20 | 20 | 140 | 3 | 1 | 45 |
| 4. | Computer Science Engineering | Python for Problem Solving & Logic Building | 3022A01CT022 | SBS-PCC | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 | 1 | 60 |
| 5. | Humanities | Professional Communication Skills | 3000A05DT046 | AEC-HSM C | 2 | | - | 50 | 10 | 10 | 70 | 2 | 1 | 30 |
| 6. | Humanities | Foundation course on Ancient Indian Knowledge System | 3000A06ET046 | IKS | 2 | - | - | 50 | 10 | 10 | 70 | 2 | 1 | 30 |
| 7. | Computer Science Engineering | Fundamentals of Computer & IT Lab | 3000A02CL022 | SBS-ESC | - | - | 4 | 40 | - | 20 | 60 | 2 | 1 | 60 |
| 8. | Computer Science Engineering | Python for Problem Solving & Logic Building (Lab) | 3022A01CL022 | SBS-PCC | - | - | 2 | 40 | - | 20 | 60 | 1 | - | 30 |
| 9. | Applied Physics | Engineering Physics Lab (Circuit) | 3000A03AL015 | BFC-BSC | - | - | 2 | 40 | - | 20 | 60 | 1 | - | 30 |
| 10. | Electrical Engineering | Basic Electrical Engineering Lab | 3000A04AL024 | BFC-ESC | - | - | 2 | 40 | - | 20 | 60 | 1 | - | 30 |
| 11. | Humanities | Sports & Yoga | 3000A06FL046 | VAC-MNC AU | - | - | 2 | - | - | 30 | 30 | - | - | 30 |
| 12. | Humanities | Social Service/Community Services | 3000A07FL046 | VAC-MNC AU | - | - | 2 | - | - | 30 | 30 | - | - | 30 |
| 13. | | Library | | | | 1 | | | | | | | | 15 |
| Total | | | | | 16 | 3 | 14 | 660 | 100 | 240 | 1000 | 23 | 105 | 495 |
| Total Learning Hours/Semester | | | | | | | | | | | | 600 | | |

L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment

Note: Abbreviations of Course category

BFC- Basics Foundation Course

SBS- Skilled Based Subject (Branch Specific)

IKS- Indian Knowledge System

AEC- Ability Enhancement Course

VAC- Value Added Course

BSC- Basic Science Courses

ESC- Engineering Science Courses

PCC- Professional Core Courses

HSMC- Humanities, Social Sciences & Management Courses

MNC AU-Mandatory Non Credit Courses – Audit Course



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|--------------------------------------|------------------------------|---------------------------------------------------|--------------|-----------------|-----------------|----------|-----------|-----------------------|------------|------------|-------------|------------|--------------------------------------|----------------|
| | | | | | L | T | P | Theory/Lab | | | | | | |
| | | | | | | | | ESE | CT | TA | | | | |
| 1. | Applied Mathematics | Engineering Mathematics-II | 3000B02AT014 | BFC-BSC | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 | 2 | 60 |
| 2. | CSE | Computer Networking & Security Surveillance | 3022B01CT022 | SBS-PCC | 3 | - | - | 100 | 20 | 20 | 140 | 3 | 2 | 45 |
| 3. | Applied Chemistry | Environmental Chemistry | 3000B03AT011 | BFC-BSC | 3 | - | - | 100 | 20 | 20 | 140 | 3 | 1 | 45 |
| 4. | Computer Science Engineering | Concepts of Programming Language | 3000B04DT022 | AEC-ESC | 3 | - | - | 100 | 20 | 20 | 140 | 3 | 1 | 45 |
| 5. | Humanities | Indian Culture and Constitution | 3000B05ET046 | IKS | 2 | - | - | 50 | 10 | 10 | 70 | 2 | 1 | 30 |
| 6. | Management | Cyber Law and Ethics | 3000B06FL076 | VAC | 1 | - | - | 50 | 10 | 10 | 70 | 1 | 1 | 15 |
| 7. | Computer Science Engineering | Concepts of Programming Language (Lab) | 3000B02DL022 | AEC-ESC | - | - | 2 | 40 | - | 20 | 60 | 1 | 1 | 30 |
| 8. | Mechanical Engineering | Engineering Graphics (Lab) | 3000B03AL037 | BFC-BSC | - | - | 4 | 40 | - | 20 | 60 | 2 | 2 | 60 |
| 9. | Applied Chemistry | Environmental Chemistry (Lab) | 3000B04AL011 | BFC-BSC | - | - | 2 | 40 | - | 20 | 60 | 1 | - | 30 |
| 10. | CSE | Computer Networking & Security Surveillance (Lab) | 3022B01CL022 | SBS-PCC | - | - | 2 | 40 | - | 20 | 60 | 1 | - | 30 |
| 11. | Humanities | Value Education | 3000B05FL046 | VAC-MNCAU | 1 | - | - | - | - | 30 | 30 | - | - | 15 |
| 12. | Civil Engineering | Civil Engg-Societal and Global Impact | 3000B07FL020 | VAC-MNCAU | 1 | - | - | - | - | 30 | 30 | - | - | 15 |
| 13. | | Library | | | | 1 | | | | | | | | 15 |
| Total | | | | | 17 | 2 | 10 | 660 | 100 | 240 | 1000 | 21 | 165 | 435 |
| Total Learning Hours/semester | | | | | | | | | | | | 600 | | |

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