# *Chhattisgarh Swami Vivekanand Technical University, Bhilai*

## Scheme of Teaching and Examination

## M.Tech. (Computer Science & Engineering)

## I Semester

| S.N. | Board of Study | Subject Code | Subject Name | Periods per week | | | Scheme of Exam Theory/Practical | | | Total Marks | Credit L+(T+P)/2 |
|------|----------------|--------------|--------------|---|---|---|-----|----|----|-------|--------|
| | | | | L | T | P | ESE | CT | TA | | |
| 1 | Computer Sc.& Engg. | 522111 (22) | Advanced Operating System | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 2 | Computer Sc.& Engg. | 522112 (22) | Java Programmng and Applications | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 3 | Computer Sc.& Engg. | 522113 (22) | Advanced Computer Architecture | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 4 | Computer Sc.& Engg. | 522114 (22) | Advanced Computer Networks | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 5 | Refer Table – I | | Elective –I | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 6 | Computer Sc.& Engg. | 522121 (22) | Advanced Operating System Lab | - | - | 3 | 75 | | 75 | 150 | 2 |
| 7 | Computer Sc.& Engg. | 522122 (22) | Java Programming and Applications Lab | - | - | 3 | 75 | | 75 | 150 | 2 |
| | TOTAL | | | 15 | 5 | 6 | 650 | 100 | 250 | 1000 | 24 |

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

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

| Table – I | | | |
|-----------|---|---|---|
| Elective – I | | | |
| S.No. | Board of Study | Code | Subject |
| 1 | Computer Science Engineering | 522131 (22) | Advanced Digital Communication |
| 2 | Computer Science Engineering | 522132 (22) | Numerical Computing |
| 3 | Computer Science Engineering | 522133 (22) | System Simulation |
| 4 | Computer Science Engineering | 522134 (22) | Analysis and Design of Algorithms |
| 5 | Computer Science Engineering | 522135 (22) | Digital Signal Processing |

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

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

PRINCIPAL
Rungta College of Engg. & Tech.
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**Scheme of Teaching and Examination**

## M.Tech. (Computer Science & Engineering)

## II Semester

| S.N. | Board of Study | Subject Code | Subject Name | Periods per week | | | Scheme of Exam | | | Total Marks | Credit L+(T+P)/2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Theory/Practical | | | | |
| | | | | L | T | P | ESE | CT | TA | | |
| 1 | Computer Sc. & Engg. | 522211 (22) | A. I. and Applications | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 2 | Computer Sc. & Engg. | 522212 (22) | Advanced Database Management System | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 3 | Computer Sc. & Engg. | 522213 (22) | Software Engineering Techniques | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 4 | Computer Sc. & Engg. | 522214 (22) | Computer Graphics & Multimedia | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 5 | Refer Table – II | | Elective –II | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 6 | Computer Sc. & Engg. | 522221 (22) | Advanced Database Management System Lab | -- | - | 3 | 75 | | 75 | 150 | 2 |
| 7 | Computer Sc. & Engg. | 522222 (22) | Computer Graphics & Multimedia Lab | - | - | 3 | 75 | | 75 | 150 | 2 |
| | **TOTAL** | | | 15 | 5 | 6 | 650 | 100 | 250 | 1000 | 24 |

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

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

| Table – II | | | |
|---|---|---|---|
| Elective –II | | | |
| S.No. | Board of Study | Code | Subject |
| 1 | Computer Science Engineering | 522231 (22) | Neural Networks |
| 2 | Computer Science Engineering | 522232 (22) | Cryptography & Network Security |
| 3 | Computer Science Engineering | 522233 (22) | Distributed Computing |
| 4 | Computer Science Engineering | 522234 (22) | Cellular mobile Communication (Prerequisite Advanced Digital Communication) |
| 5 | Computer Science Engineering | 522235 (22) | Digital Image Processing (Prerequisite Digital Signal Processing) |

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**Scheme of Teaching and Examination**

**M. Tech (Computer Science & Engineering)**
**III Semester**

| S.N. | Board of Study | Subject Code | Subject Name | Periods per week | | | Scheme of Exam Theory/Practical | | | Total Marks | Credit L+(T+P)/2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | L | T | P | ESE | CT | TA | | |
| 1 | Computer Sc. Engg | 522311 (22) | Data Warehousing & Data Mining | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 2 | Refer Table –III | | Elective–III | 3 | 1 | - | 100 | 20 | 20 | 140 | 4 |
| 3 | Computer Sc. Engg | 522321 (22) | Preliminary work on Dissertation | - | - | 28 | 100 | - | 100 | 200 | 14 |
| 4 | Computer Sc. Engg | 522322 (22) | Seminar based on Dissertation | - | - | 3 | - | - | 20 | 20 | 2 |
| Total | | | | 6 | 2 | 31 | 300 | 40 | 160 | 500 | 24 |

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

| Table – III | | | |
|---|---|---|---|
| Elective –III | | | |
| S.No. | Board of Study | Code | Subject |
| 1 | Computer Science Engineering | 522331 (22) | Embedded Systems |
| 2 | Computer Science Engineering | 522332 (22) | Object Oriented Software Engineering |
| 3 | Computer Science Engineering | 522333 (22) | Enterprise Resource Planning |
| 4 | Computer Science Engineering | 522334 (22) | Mobile Computing |
| 5 | Computer Science Engineering | 522335 (22) | Multimedia and Wireless Technology |

**Note (1) –** 1/4th of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

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## Scheme of teaching and examination

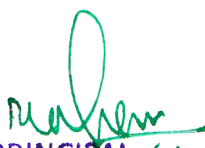## M. Tech.  (Computer Science & Engineering)

## Fourth Semester.

| S.N. | Board of Study | Subject Code | Subject Name | Periods per week | | | Scheme of Exam | | | Total Marks | Credit L+(T+P)/2 |
|------|----------------|--------------|--------------|---|---|---|---|---|---|---|---|
| | | | | L | T | P | Theory/Practical | | | | |
| | | | | | | | ESE | CT | TA | | |
| 1 | Computer Sc. & Engg. | 522421 (22) | Major Project+ Seminar | 6 | | 34 | 300 | | 200 | 500 | 23 |
| Total | | | | 6 | - | 34 | 300 | | 200 | 500 | 23 |

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

Scheme of marks Allotment

| Semester | Total Marks | Grand Total |
|----------|-------------|-------------|
| I | 1000 | |
| II | 1000 | 3000 |
| III | 500 | |
| IV | 500 | |

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