



# MATS UNIVERSITY

City Information Centre: MATS Tower Pandri Raipur Chhattisgarh 492002 INDIA

Tel: +91 771 899 5965/ Fax: +91 771 407 8997

Email: msit@matsuniversity.ac.in

| MASTER OF COMPUTER SCIENCE |  |                            |                             |                   |                |
|----------------------------|--|----------------------------|-----------------------------|-------------------|----------------|
| M.SC. (CS) I SEMESTER      |  |                            |                             |                   |                |
| Subject code               | Subject Name   | Credit<br>1 Cr= 10<br>hrs. | University<br>Exam<br>Marks | Internal<br>Marks | Total<br>Marks |
| <b>Core</b>                |  |                            |                             |                   |                |
| MSIT/M.Sc.(CS)/101         | Computer Architectures and Organization                          | 6                          | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/102         | Digital Electronics  | 6                          | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/103         | Object Oriented Principles and C++                               | 6                          | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/104         | Operating System Architectures and Concepts                      | 6                          | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/105         | Numerical Analysis and implementation using programming language | 6                          | 70                          | 30                | 100            |
| <b>Core Bracket</b>        |  |                            |                             |                   |                |
| MSIT/M.Sc.(CS)/106         | Communicative English - I  | 3                          | 35                          | 15                | 50             |
| <b>Lab</b>                 |  |                            |                             |                   |                |
| MSIT/M.Sc.(CS)/107         | Practical based on 101 and 102                                   | 3                          | 35                          | 15                | 50             |
| MSIT/M.Sc.(CS)/108         | Practical based on 103   | 3                          | 35                          | 15                | 50             |
| MSIT/M.Sc.(CS)/109         | Practical based on 105   | 3                          | 35                          | 15                | 50             |
| <b>Total</b>               |  | <b>42</b>                  | <b>490</b>                  | <b>210</b>        | <b>700</b>     |

| MASTER OF COMPUTER SCIENCE |  |                            |                          |                   |                |
|----------------------------|--|----------------------------|--------------------------|-------------------|----------------|
| M.SC. (CS) II SEMESTER     |  |                            |                          |                   |                |
| Subject code               | Subject Name                             | Credit<br>1 Cr= 10<br>hrs. | University Exam<br>Marks | Internal<br>Marks | Total<br>Marks |
| <b>Core</b>                |  |                            |                          |                   |                |
| MSIT/M.Sc.(CS)/201         | RDBMS                                    | 6                          | 70                       | 30                | 100            |
| MSIT/M.Sc.(CS)/202         | Algorithms and Data Structure using C++  | 6                          | 70                       | 30                | 100            |
| MSIT/M.Sc.(CS)/203         | Web Scripting and Mutlimedia Technology  | 6                          | 70                       | 30                | 100            |
| MSIT/M.Sc.(CS)/204         | Data Communication and Computer Networks | 6                          | 70                       | 30                | 100            |
| MSIT/M.Sc.(CS)/205         | Compiler Designing                       | 6                          | 70                       | 30                | 100            |
| <b>Core Bracket</b>        |  |                            |                          |                   |                |
| MSIT/M.Sc.(CS)/206         | System Analysis and Design               | 3                          | 35                       | 15                | 50             |
| <b>Lab</b>                 |  |                            |                          |                   |                |
| MSIT/M.Sc.(CS)/207         | Practical based on 201                   | 3                          | 35                       | 15                | 50             |
| MSIT/M.Sc.(CS)/208         | Practical based on 202                   | 3                          | 35                       | 15                | 50             |
| MSIT/M.Sc.(CS)/209         | Practical based on 203                   | 3                          | 35                       | 15                | 50             |
| <b>Total</b>               |  | <b>42</b>                  | <b>490</b>               | <b>210</b>        | <b>700</b>     |



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| M.SC. (CS) III SEMESTER    |   |                         |                             |                   |                |
| Subject code               | Subject Name  | Credit<br>1 Cr= 10 hrs. | University<br>Exam<br>Marks | Internal<br>Marks | Total<br>Marks |
| <b>Core</b>                |   |                         |                             |                   |                |
| MSIT/M.Sc.(CS)/301         | Core Java   | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/302         | Windows Based Programming, Platform and COM, DCOM             | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/303         | Computer Graphics   | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/304         | Image Processing  | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/305         | Software Engineering  | 6                       | 70                          | 30                | 100            |
| <b>Core Bracket</b>        |   |                         |                             |                   |                |
| MSIT/M.Sc.(CS)/306         | Computer Based Information Systems(MIS, DSS & Expert Systems) | 3                       | 35                          | 15                | 50             |
| <b>Lab</b>                 |   |                         |                             |                   |                |
| MSIT/M.Sc.(CS)/307         | Practical based on 301  | 3                       | 35                          | 15                | 50             |
| MSIT/M.Sc.(CS)/308         | Practical based on 302  | 3                       | 35                          | 15                | 50             |
| MSIT/M.Sc.(CS)/309         | Practical based on 304  | 3                       | 35                          | 15                | 50             |
| <b>Total</b>               |   | <b>42</b>               | <b>490</b>                  | <b>210</b>        | <b>700</b>     |

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|----------------------------|---|-------------------------|-----------------------------|-------------------|----------------|
| M.SC. (CS) IV SEMESTER     |   |                         |                             |                   |                |
| Subject code               | Subject Name                                | Credit<br>1 Cr= 10 hrs. | University<br>Exam<br>Marks | Internal<br>Marks | Total<br>Marks |
| <b>Core</b>                |   |                         |                             |                   |                |
| MSIT/M.Sc.(CS)/401         | Advanced Java (J2EE)                        | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/402         | Advanced Programming in C#.NET              | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/403         | Distributed and Parallel Computing          | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/404         | Artificial Intelligence and Neural Networks | 6                       | 70                          | 30                | 100            |
| MSIT/M.Sc.(CS)/405         | Data Mining and Warehousing                 | 6                       | 70                          | 30                | 100            |
| <b>Major Project</b>       |   |                         |                             |                   |                |
| MSIT/M.Sc.(CS)/406         | Major Project                               | 18                      | 210                         | 90                | 300            |
| <b>Lab</b>                 |   |                         |                             |                   |                |
| MSIT/M.Sc.(CS)/407         | Practical based on 401                      | 3                       | 35                          | 15                | 50             |
| MSIT/M.Sc.(CS)/408         | Practical based on 402                      | 3                       | 35                          | 15                | 50             |
| <b>Total</b>               |   | <b>54</b>               | <b>630</b>                  | <b>270</b>        | <b>900</b>     |