



University of Engineering & Management, Jaipur  
**Syllabus to be implemented from the Academic Year 2014-15**  
**M.Tech(Computer Science & Engineering)**

**First Year First Semester**

| Sr. No: | Paper Code | Paper Name   | ClassHours |   |   | Credit        |
|---------|------------|--|------------|---|---|---------------|
|         |            |  | L          | T | P |               |
|         |            | <b>Theory</b>  |            |   |   | <b>Cr.Pt.</b> |
| 1       | MCSE101    | Advanced Engineering Mathematics   | 3          | 1 | 0 | 4             |
| 2       | MCSE102    | Advanced Operating System  | 4          | 0 | 0 | 4             |
| 3       | MCSE103    | Advanced Computer Architecture   | 4          | 0 | 0 | 4             |
| 4       | MCSE104    | Advanced Algorithms  | 4          | 0 | 0 | 4             |
| 5       | MCSE105    | Elective–I<br>A)Artificial Neural Networks<br>B)Agent Based Intelligent Systems<br>C)Advanced Soft Computing<br>D) Object Oriented Information System Design<br>E) Software Engineering& CASE tools<br>F) Computer Graphics & Multimedia | 4          | 0 | 0 | 4             |
|         |            | <b>Total</b>   | 19         | 1 | 0 | <b>20</b>     |
|         |            | <b>Practical</b>   |            |   |   |               |
| 6       | MCSE191    | Operating System Laboratory  | 0          | 0 | 3 | 2             |
| 7       | MCSE192    | A)Advanced Programming Lab   | 0          | 0 | 3 | 2             |
|         |            | <b>Total</b>   | 0          | 0 | 6 | <b>4</b>      |
|         |            | <b>Seminar</b>   |            |   |   |               |
| 8       | MCSE181    | Seminar– Based on Literature Survey  | 0          | 2 | 0 | <b>1</b>      |
|         |            | <b>Total</b>   | 19         | 3 | 6 | <b>25</b>     |



**University of Engineering & Management, Jaipur**  
**First Year Second Semester**

| Sr. No: | Paper Code | Paper Name  | ClassHours |   |   | Credit    |
|---------|------------|---|------------|---|---|-----------|
|         |            |   | L          | T | P |           |
|         |            | <b>Theory</b>   |            |   |   |           |
| 1       | MCSE201    | Advanced DBMS[Compulsory]   | 4          | 0 | 0 | 4         |
| 2       | MCSE202    | Advanced Computer Network & Security  | 4          | 0 | 0 | 4         |
| 3       | MCSE203    | Theory of Computation   | 4          | 0 | 0 | 4         |
| 4       | MCSE204    | Elective-II<br>A) Cluster, Grid & Cloud Computing<br>B) Mobile Computing<br>C) Advanced Web Technology<br>D) Soft Computing<br>E) Cryptography & Computer Security    | 4          | 0 | 0 | 4         |
| 5       | MCSE205    | Elective-III<br>A) Image Processing<br>B) Pattern Recognition<br>C) Real-time Embedded Systems & Programming<br>D) Complex Systems<br>E) Distributed System Principle | 4          | 0 | 0 | 4         |
|         |            | <b>Total</b>  | 20         | 0 | 0 | <b>20</b> |
|         |            | <b>Practical</b>  |            |   |   |           |
| 6       | MCSE291    | Computer Networking & DBMS Lab  | 0          | 0 | 3 | 2         |
|         |            | <b>Total</b>  | 0          | 0 | 3 | <b>2</b>  |
|         |            | <b>Seminar &amp; Viva</b>   |            |   |   |           |
| 7       | MCSE281    | Seminar– Term Paper Leading To Project  | 0          | 2 | 0 | 1         |
| 8       |            |   |            |   |   |           |
|         |            | <b>Total</b>  | 20         | 2 | 6 | <b>23</b> |

**Second Year Third Semester**

| Sr. No: | Paper Code | Paper Name   | ClassHours |   |    | Credit    |
|---------|------------|--|------------|---|----|-----------|
|         |            |  | L          | T | P  |           |
|         |            | <b>Theory</b>  |            |   |    |           |
| 1       | MCSE301    | Teaching & Research Methodologies  | 4          | 0 | 0  | 4         |
| 2       | MCSE302    | Elective-IV<br>A) Artificial Intelligence<br>B) Bioinformatics<br>C) Data Mining & Data Ware-Housing<br>D) Compiler Construction<br>E) VLSI Design | 4          | 0 | 0  | 4         |
|         |            | <b>Total</b>   | 8          | 0 | 0  | <b>8</b>  |
|         |            | <b>Project</b>   |            |   |    |           |
| 3       | MCSE381    | Project–Part I<br>(Dissertation I + Defence of Project-I)  | 0          | 0 | 18 | 12        |
|         |            | <b>Total</b>   | 8          | 0 | 18 | <b>20</b> |



**University of Engineering & Management, Jaipur**  
**Second Year Fourth Semester**

| Sr.<br>No<br>: | Paper Code | Paper Name  | ClassHours |   |    | Credit |
|----------------|------------|---|------------|---|----|--------|
|                |            | Project   | L          | T | P  |        |
| 1              | MCSE481    | Project-Part I<br>(Dissertation II + Defence of Project-II) | 0          | 0 | 24 | 20     |
|                |            |   |            |   |    | 20     |
| Total          |            |   | 0          | 0 | 24 | 20     |