

**MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY  
BHOPAL – 462003  
REVISED SCHEME FOR BATCH ADMITTED IN 2019**

**Department of Computer Science and Engineering**

**B. Tech. (Computer Science and Engineering)**

**SEVENTH SEMESTER**

| Course Code            | Course Name                    | Scheme of Studies Periods per week |          |          | Credits   |
|------------------------|--------------------------------|------------------------------------|----------|----------|-----------|
|                        |                                | L                                  | T        | P        |           |
| CSE 411                | TCP/IP & Web Technology        | 3                                  | -        | -        | 3         |
| CSE 416                | Network Security               | 3                                  | -        | -        | 3         |
|                        | Department Elective-5(A)       | 3                                  | -        | -        | 3         |
|                        | Department Elective-6(A)       | 3                                  | -        | -        | 3         |
|                        | Department Elective-7(A)       | 3                                  | -        | -        | 3         |
|                        | Open Elective-3(C)             | 3                                  | -        | -        | 3         |
| CSE 412                | TCP/IP & Web Technology Lab    | -                                  | -        | 2        | 1         |
| CSE 413                | Major Project Phase 1          | -                                  | 3        | 2        | 4         |
| CSE 414                | Internship/Industrial Training |                                    |          | 2        | 1         |
| <b>Total Hours =27</b> |                                | <b>18</b>                          | <b>3</b> | <b>6</b> | <b>24</b> |

**EIGHTH SEMESTER**

| Course Code            | Course Name                           | Scheme of Studies Periods per week |          |           | Credits   |
|------------------------|---------------------------------------|------------------------------------|----------|-----------|-----------|
|                        |                                       | L                                  | T        | P         |           |
|                        | Department Elective-8(A)              | 3                                  | -        | -         | 3         |
|                        | Department Elective-9(A)              | 3                                  | -        | -         | 3         |
|                        | Open Elective-4 (C)                   | 3                                  | -        | -         | 3         |
| CSE 421 /<br>CSE 422   | Major Project Phase 2 /<br>Internship | -                                  | -        | 12        | 6         |
| CSE 423                | General Proficiency                   | -                                  | -        | -         | 1         |
| <b>Total Hours =21</b> |                                       | <b>9</b>                           | <b>-</b> | <b>12</b> | <b>16</b> |

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**LIST OF ELECTIVES**

| <b>List of Department Electives - A</b> |                                             |
|-----------------------------------------|---------------------------------------------|
| 1.                                      | CSE 431 Software Testing                    |
| 2.                                      | CSE 432 Cloud Computing                     |
| 3.                                      | CSE 433 Distributed Computing               |
| 4.                                      | CSE 434 Pattern Recognition                 |
| 5.                                      | CSE 435 Computer Vision                     |
| 6.                                      | CSE 436 Randomized Algorithms               |
| 7.                                      | CSE 437 Natural Language Processing         |
| 8.                                      | CSE 438 Mobile Computing                    |
| 9.                                      | CSE 439 Quantum Computing                   |
| 10.                                     | CSE 441 Sensor Networks                     |
| 11.                                     | CSE 442 Web Search & Mining                 |
| 12.                                     | CSE 443 Big Data Technologies               |
| 13.                                     | CSE 444 Soft Computing                      |
| 14.                                     | CSE 445 Internet of Things                  |
| <b>List of Open Electives - C</b>       |                                             |
| 1.                                      | CSE 451 Graph Theory                        |
| 2.                                      | CSE 452 Optimization Techniques             |
| 3.                                      | CSE 453 Cyber Crime and Information Warfare |
| 4.                                      | CSE 454 Wireless Networks                   |
| 5.                                      | CSE 455 Neural Networks                     |
| 6.                                      | CSE 456 Ethical Hacking                     |
| 7.                                      | CSE 457 Biometrics                          |
| 8.                                      | CSE 458 Machine Learning                    |
| 9.                                      | CSE 459 Integer Programming                 |
| 10.                                     | CSE 460 Support Vector Machine              |