

# Swami Vivekanand University, Sagar (M.P.)

As per model syllabus of U.G.C. New Delhi, drafted by  
Central Board of Studies and Approved by Higher  
Education and the Governor of M.P.



विज्ञान संकाय

**Faculty of & Computer Science**  
**Syllabus & Prescribed Books**  
**Subjest-M.Sc.IT**

**M.Sc. IT Semester Examination**  
**2016-17**  
**I, II, III & IV Semester**

कुलसचिव

स्वामी विवेकानंद विश्वविद्यालय, सिरोंजा, सागर (म.प्र.)



## M.Sc. (IT) Scheme of Examination

### I<sup>ST</sup> SEMESTER

- |                         |                                |                               |       |
|-------------------------|--------------------------------|-------------------------------|-------|
| 1. Course Code          | : MSCIT                        | 5. Total Practical            | : 2   |
| 2. Course Name          | : M.Sc. Information Technology | 6. Total Practical Marks      | : 100 |
| 3. Total Theory Subject | : 5                            | 7. Total Marks                | : 350 |
| 4. Total Theory Marks   | : 250                          | 8. Minimum Passing Percentage | : 36  |

| Sub. Code         | Subject Name                            | Theory |     |     |      |      |     |      |             |      | Practical |      | Total |      |
|-------------------|---|--------|-----|-----|------|------|-----|------|-------------|------|-----------|------|-------|------|
|                   |   | Paper  |     |     |      |      | CCE |      | Total Marks |      |           |      |       |      |
|                   |   | 1st    | 2nd | 3rd | Max. | Min. | Max | Min. | Max.        | Min. | Max.      | Min. | Max.  | Min. |
| <b>Compulsory</b> |   |        |     |     |      |      |     |      |             |      |           |      |       |      |
| MSCIT 101         | Computer and Communication Fundamentals | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |
| MSCIT 102         | Programming and Problem Solving Using C | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 103         | Operating Systems                       | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 104         | Discrete Structures                     | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |
| MSCIT 105         | Communication Skills                    | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |



## M.Sc. (IT) Scheme of Examination

### II<sup>ND</sup> SEMESTER

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|-------------------------|--------------------------------|-------------------------------|-------|
| 1. Course Code          | : MSCIT                        | 5. Total Practical            | : 2   |
| 2. Course Name          | : M.Sc. Information Technology | 6. Total Practical Marks      | : 100 |
| 3. Total Theory Subject | : 5                            | 7. Total Marks                | : 350 |
| 4. Total Theory Marks   | : 250                          | 8. Minimum Passing Percentage | : 36  |

| Sub. Code         | Subject Name                           | Theory |     |     |      |      |     |      |             |      | Practical |      | Total |      |
|-------------------|--|--------|-----|-----|------|------|-----|------|-------------|------|-----------|------|-------|------|
|                   |  | Paper  |     |     |      |      | CCE |      | Total Marks |      | Max.      | Min. | Max.  | Min. |
|                   |  | 1st    | 2nd | 3rd | Max. | Min. | Max | Min. | Max.        | Min. |           |      |       |      |
| <b>Compulsory</b> |  |        |     |     |      |      |     |      |             |      |           |      |       |      |
| MSCIT 201         | Data Structures using C++              | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |
| MSCIT 202         | Database Management System             | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 203         | Software Engineering                   | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 204         | Computer Architecture and Organization | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |
| MSCIT 205         | Organization and Management Concepts   | 42     | 0   | 0   | 42   | 15   | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |



## M.Sc. (IT) Scheme of Examination

### III<sup>RD</sup> SEMESTER

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|-------------------------|--------------------------------|-------------------------------|-------|
| 1. Course Code          | : MSCIT                        | 5. Total Practical            | : 3   |
| 2. Course Name          | : M.Sc. Information Technology | 6. Total Practical Marks      | : 150 |
| 3. Total Theory Subject | : 5                            | 7. Total Marks                | : 400 |
| 4. Total Theory Marks   | : 250                          | 8. Minimum Passing Percentage | : 36  |

| Sub. Code         | Subject Name                              | Theory |     |     |      |     |     |      |             |      |      | Practical |      | Total |  |
|-------------------|---|--------|-----|-----|------|-----|-----|------|-------------|------|------|-----------|------|-------|--|
|                   |   | Paper  |     |     |      |     | CCE |      | Total Marks |      | Max. | Min.      | Max. | Min.  |  |
|                   |   | 1st    | 2nd | 3rd | Max. | Min | Max | Min. | Max         | Min. |      |           |      |       |  |
| <b>Compulsory</b> |   |        |     |     |      |     |     |      |             |      |      |           |      |       |  |
| MSCIT 301         | Object Oriented Programming using JAVA    | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 50   | 18        | 100  | 36    |  |
| MSCIT 302         | Database Application and Tools            | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 50   | 18        | 100  | 36    |  |
| MSCIT 303         | Computer Networks                         | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 50   | 18        | 100  | 36    |  |
| MSCIT 304         | Human Computer Interaction and Web Design | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 0    | 0         | 50   | 18    |  |
| MSCIT 305         | Accounting and Financial Systems          | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 0    | 0         | 50   | 18    |  |



## M.Sc. (IT) Scheme of Examination

### IV<sup>TH</sup> SEMESTER

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|-------------------------|--------------------------------|-------------------------------|-------|
| 1. Course Code          | : MSCIT                        | 5. Total Practical            | : 4   |
| 2. Course Name          | : M.Sc. Information Technology | 6. Total Practical Marks      | : 200 |
| 3. Total Theory Subject | : 4                            | 7. Total Marks                | : 400 |
| 4. Total Theory Marks   | : 200                          | 8. Minimum Passing Percentage | : 36  |

| Sub. Code         | Subject Name                               | Theory |     |     |      |     |     |      |             |      | Practical |      | Total |      |
|-------------------|--|--------|-----|-----|------|-----|-----|------|-------------|------|-----------|------|-------|------|
|                   |  | Paper  |     |     |      |     | CCE |      | Total Marks |      | Max.      | Min. | Max.  | Min. |
|                   |  | 1st    | 2nd | 3rd | Max. | Min | Max | Min. | Max         | Min. |           |      |       |      |
| <b>Compulsory</b> |  |        |     |     |      |     |     |      |             |      |           |      |       |      |
| MSCIT 401         | Linux/Unix Administration                  | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 402         | Data Mining & Warehousing                  | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 403         | Internet & Web Technology                  | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 50        | 18   | 100   | 36   |
| MSCIT 404         | Mobile Communication and Computing Systems | 42     | 0   | 0   | 42   | 15  | 8   | 3    | 50          | 18   | 0         | 0    | 50    | 18   |
| MSCIT 405         | Major Project                              | 0      | 0   | 0   | 0    | 0   | 0   | 0    | 0           | 0    | 50        | 18   | 50    | 18   |