

# Swarnim Startup & Innovation University

## SWARRNIM SCIENCE COLLEGE

### Master of Science (M.Sc.) Biotechnology

#### Masters teaching syllabus & examination pattern

#### Semester 1

| Sr. No. | Subject Code | Subject Name                             | Credit | Teaching scheme per week |     |           |       | Examination |         |     |          |     |         |         |    | Total | REMARKS                                                                                     |
|---------|--------------|------------------------------------------|--------|--------------------------|-----|-----------|-------|-------------|---------|-----|----------|-----|---------|---------|----|-------|---------------------------------------------------------------------------------------------|
|         |              |                                          |        | Th                       | Tut | Practical | Total | Internal    |         |     | External |     |         | PASSING |    |       |                                                                                             |
|         |              |                                          |        |                          |     |           |       | Th          | PASSING | Pr  | PASSING  | Th  | PASSING |         | Pr |       |                                                                                             |
| 1       | 56030101     | Molecular Biology                        | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -  | 150   | PASSING MARKS IS 60 FROM 150 & 40 FROM 100. BUT STUDENTS HAS TO BE PRESENT N EACH COMPONENT |
| 2       | 56030102     | Bioinstrumentation                       | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -  | 150   |                                                                                             |
| 3       | 56030103     | Cell Biology                             | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -  | 150   |                                                                                             |
| 4       | 56030104     | Phytoresource Utilization & Conservation | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -  | 150   |                                                                                             |
| 6       | 23000007     | INTRODUCTION TO ENTREPRENEUSHIP          | 2.5    | 2                        | 1   | -         | 3     | -           | -       | 50  | 20       | -   | -       | 50      | 20 | 100   |                                                                                             |
|         |              | Total                                    | 26.5   | 18                       | 1   | 8         | 27    | 200         |         | 250 |          | 200 |         |         |    | 700   |                                                                                             |

#### Semester 2

| Sr. No. | Subject Code | Subject Name                                 | Credit | Teaching scheme per week |     |           |       | Examination |         |     |          |     |         |         | Total | REMARKS |                                                                                             |
|---------|--------------|----------------------------------------------|--------|--------------------------|-----|-----------|-------|-------------|---------|-----|----------|-----|---------|---------|-------|---------|---------------------------------------------------------------------------------------------|
|         |              |                                              |        | Th                       | Tut | Practical | Total | Internal    |         |     | External |     |         | PASSING |       |         |                                                                                             |
|         |              |                                              |        |                          |     |           |       | Th          | PASSING | Pr  | PASSING  | Th  | PASSING |         |       |         | Pr                                                                                          |
| 1       | 56030201     | Bioprocess & Biochemical Engineering         | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -     | 150     | PASSING MARKS IS 60 FROM 150 & 40 FROM 100. BUT STUDENTS HAS TO BE PRESENT N EACH COMPONENT |
| 2       | 56030202     | Microbial Genetics                           | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -     | 150     |                                                                                             |
| 3       | 56030203     | Fundamentals of Immunology                   | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -     | 150     |                                                                                             |
| 4       | 56030204     | Microtechniques                              | 6      | 4                        | -   | 2         | 6     | 50          | 20      | 50  | 20       | 50  | 20      | -       | -     | 150     |                                                                                             |
| 6       | 23000013     | Preparing Wider Horizon for Entrepreneurship | 2.5    | 2                        | 1   | -         | 3     | -           | -       | 50  | 20       | -   | -       | 50      | 20    | 100     |                                                                                             |
|         |              | Total                                        | 26.5   | 18                       | 1   | 8         | 27    | 200         |         | 250 |          | 200 |         |         |       | 700     |                                                                                             |



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| Sr. No. | Semester 3   |                                   |      | Credit | Teaching scheme per week |           |       |          | Examination |     |          |     |    |    | Total | REMARKS |                                                                                             |
|---------|--------------|-----------------------------------|------|--------|--------------------------|-----------|-------|----------|-------------|-----|----------|-----|----|----|-------|---------|---------------------------------------------------------------------------------------------|
|         | Subject Code | Subject Name                      | Th   |        | Tut                      | Practical | Total | Internal |             |     | External |     |    |    |       |         |                                                                                             |
|         |              |                                   |      |        |                          |           |       | Th       |             | Pr  |          | Th  |    | Pr |       |         |                                                                                             |
|         |              |                                   |      |        |                          |           |       |          |             |     |          |     |    |    |       |         |                                                                                             |
| 1       | 56010301     | Microbial Biotechnology           | 8    | 4      | -                        | 2         | 6     | 50       | 20          | 50  | 20       | 50  | 20 | -  | -     | 150     | PASSING MARKS IS 60 FROM 150 & 40 FROM 100. BUT STUDENTS HAS TO BE PRESENT N EACH COMPONENT |
| 2       | 56010302     | Enzymology                        | 8    | 4      | -                        | 2         | 6     | 50       | 20          | 50  | 20       | 50  | 20 | -  | -     | 150     |                                                                                             |
| 3       | 56010303     | Immunology                        | 8    | 4      | -                        | 2         | 6     | 50       | 20          | 50  | 20       | 50  | 20 | -  | -     | 150     |                                                                                             |
| 4       | 56010304     | Minor Project/Industrial training | 10   | -      | -                        | 2         | 2     | -        | -           | 200 | 100      | -   | -  | -  | -     | 200     |                                                                                             |
| 5       | 23000014     | ENTREPRENEURIAL MOTIVATION        | 2.5  | 2      | 1                        | -         | 2     | -        | -           | 50  | 20       | -   | -  | 50 | 20    | 100     |                                                                                             |
|         |              | Total                             | 36.5 | 14     |                          | 8         | 20    | 150      |             | 250 |          | 150 |    |    |       | 750     |                                                                                             |

| Sr. No. | Semester 4   |                                        |        | Teaching scheme per week |     |           |       | Examination |    |     |          |         |    |         | Total | REMARKS |                                                                                   |
|---------|--------------|----------------------------------------|--------|--------------------------|-----|-----------|-------|-------------|----|-----|----------|---------|----|---------|-------|---------|-----------------------------------------------------------------------------------|
|         | Subject Code | Subject Name                           | Credit |                          |     |           |       | Internal    |    |     | External |         |    |         |       |         |                                                                                   |
|         |              |                                        |        | Th                       | Tut | Practical | Total |             |    |     | Th       | PASSING | Pr | PASSING |       |         | Th                                                                                |
|         |              |                                        |        |                          |     |           |       |             |    |     |          |         |    |         |       |         |                                                                                   |
| 1       | 56010401     | Plant Biotechnology                    | 8      | 4                        | -   | 2         | 6     | 50          | 20 | 50  | 20       | 50      | 20 | -       | -     | 150     | PASSING MARKS IS 60 FROM 150 & 40 FROM 100. BUT STUDENTS HAS TO BE PRESENT N EACH |
| 2       | 56010402     | Environmental Biotechnology            | 8      | 4                        | -   | 2         | 6     | 50          | 20 | 50  | 20       | 50      | 20 | -       | -     | 150     |                                                                                   |
| 3       | 56030403     | Dissertation                           | 12     | -                        | -   | 3         | 3     | -           | -  | 300 | 150      | -       | -  | -       | -     | 300     |                                                                                   |
| 4       | 23000017     | PROJECT FEASIBILITY & MARKETING SKILLS | 2.5    | 2                        | 1   | -         | -     | -           | -  | 50  | 20       | -       | -  | 50      | 20    | 100     |                                                                                   |
|         |              | Total                                  | 30.5   | 10                       |     | 7         | 15    | 100         |    | 250 |          | 100     |    | 60      |       | 700     |                                                                                   |

  
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