

**J.J. College of Arts and Science (Autonomous)**  
**Department of Microbiology**

**Proposed Course Structure based on TANSCH and UGC - LOCF**  
**(Choice Based Credit System)**

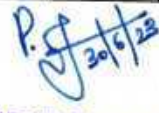
**(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)**

**B.Sc. Microbiology - Semester I**

| Sl.No.     | Course Category | Course Code      | Course                                                             | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|------------|-----------------|------------------|--------------------------------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|            |                 |                  |                                                                    |                 |                          | CIA   | ESE | Total |
| Semester I |                 |                  |                                                                    |                 |                          |       |     |       |
| 1          | Part - I        | U1R3TL1/HL1/FL1  | Language - I (Tamil/Hindi/French)                                  | 3               | 6                        | 25    | 75  | 100   |
| 2          | Part - II       | U1R3EL1          | Language - II (English)                                            | 3               | 6                        | 25    | 75  | 100   |
| 3          | Part - III      | U1R3MBCC1        | Fundamentals of Microbiology and Microbial Diversity               | 5               | 5                        | 25    | 75  | 100   |
| 4          |                 | U1R3MBCC2P       | Practical I - Fundamentals of Microbiology and Microbial Diversity | 5               | 5                        | 40    | 60  | 100   |
| 5          |                 | U1R3MBDSE1       | Basic and Clinical Biochemistry                                    | 3               | 4                        | 25    | 75  | 100   |
| 6          | Part - IV       | U1R3MBSEC1 (NME) | To be opted from other Department                                  | 2               | 2                        | 25    | 75  | 100   |
| 7          |                 | U1R3MBFC         | Foundation Course                                                  | 2               | 2                        | 25    | 75  | 100   |
| Total      |                 |                  |                                                                    | 23              | 30                       |       |     | 700   |

**M.Sc. Microbiology - Semester I**

| Sl.No.     | Course Code               | Course                                                    | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|------------|---------------------------|-----------------------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|            |                           |                                                           |                 |                          | CIA   | ESE | Total |
| Semester I |                           |                                                           |                 |                          |       |     |       |
| 1          | P1R3MBCC1                 | General Microbiology & Microbial Diversity                | 5               | 7                        | 25    | 75  | 100   |
| 2          | P1R3MBCC2                 | Immunology, Immunomics & Microbial Genetics               | 5               | 7                        | 25    | 75  | 100   |
| 3          | P1R3MBCC3P                | Practical - I Immunology, Immunomics & Microbial Genetics | 4               | 6                        | 40    | 60  | 100   |
| 4          | P1R3MBDSE 1:1 / 1:2 / 1:3 | Anyone from the List                                      | 3               | 5                        | 25    | 75  | 100   |
| 5          | P1R3MBDSE 2:1 / 2:2 / 2:3 | Anyone from the List                                      | 3               | 5                        | 25    | 75  | 100   |
| Total      |                           |                                                           | 20              | 30                       |       |     | 500   |

  
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# J.J. College of Arts and Science (Autonomous)

## Department of Microbiology

### Proposed Course Structure based on TANSCH and UGC - LOCF

#### (Choice Based Credit System)

(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)

### B.Sc. Microbiology - Semester II

| Sl. No.     | Course Category | Course Code            | Course                                      | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|-------------|-----------------|------------------------|---------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|             |                 |                        |                                             |                 |                          | CIA   | ESE | Total |
| Semester II |                 |                        |                                             |                 |                          |       |     |       |
| 1           | Part - I        | U2R3TL2/<br>HL2/FL2    | Language - I<br>(Tamil/Hindi/French)        | 3               | 6                        | 25    | 75  | 100   |
| 2           | Part - II       | U2R3EL2                | Language - II<br>(English)                  | 3               | 6                        | 25    | 75  | 100   |
| 3           | Part - III      | U2R3MBCC3              | Microbial Physiology<br>and Metabolism      | 5               | 5                        | 25    | 75  | 100   |
| 4           |                 | U2R3MBCC4P             | Practical II -<br>(Covering CC3)            | 5               | 5                        | 40    | 60  | 100   |
| 5           |                 | U2R3MBDSE<br>2:1 / 2:2 | Bioinstrumentation /<br>Herbal Technology   | 3               | 4                        | 25    | 75  | 100   |
| 6           | Part - IV       | U2R3MBSEC2<br>(NME2)   | To be opted from<br>other Department        | 2               | 2                        | 25    | 75  | 100   |
| 7           |                 | U2R3MBSEC<br>3:1 / 3:2 | Sericulture /<br>Veterinary<br>Microbiology | 2               | 2                        | 25    | 75  | 100   |
| Total       |                 |                        |                                             | 23              | 30                       |       |     | 700   |

### M.Sc. Microbiology - Semester II

| Sl. No.     | Course Code               | Course                                                                     | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|-------------|---------------------------|----------------------------------------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|             |                           |                                                                            |                 |                          | CIA   | ESE | Total |
| Semester II |                           |                                                                            |                 |                          |       |     |       |
| 1           | P2R3MBCC4                 | Medical Bacteriology and Mycology                                          | 5               | 6                        | 25    | 75  | 100   |
| 2           | P2R3MBCC5                 | Medical Virology and Parasitology                                          | 5               | 6                        | 25    | 75  | 100   |
| 3           | P2R3MBCC6P                | Practical II - (Covering CC4, CC5)                                         | 4               | 6                        | 40    | 60  | 100   |
| 4           | P2R3MBDSE 3:1 / 3:2 / 3:3 | Epidemiology / Clinical and Diagnostic Microbiology/ Bioremediation        | 3               | 4                        | 25    | 75  | 100   |
| 5           | P2R3MBDSE 4:1 / 4:2 / 4:3 | Bioinformatics / Nanobiotechnology / Clinical Research and Clinical Trails | 3               | 4                        | 25    | 75  | 100   |
| 6           | P2R3MBSEC 1:1 / 1:2       | Vermitechnology / Mushroom Technology                                      | 2               | 4                        | 25    | 75  | 100   |
| Total       |                           |                                                                            | 22              | 30                       |       |     | 600   |

Principal

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