# STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME

**SCHOOL NAME**    - ROYAL SCHOOL OF LIFE SCIENCES (RSLSC)

**DEPARTMENT NAME**    - BOTANY

**PROGRAMME NAME**    - M.Sc. Botany

| 1st SEMESTER | | | | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **LEVEL** | **CREDIT** | **L-T-P** |
| BOT144C101 | Microbes and Microbial Technology | 400 | 3 | 3-0-0 |
| BOT144C102 | Plant Systematics | 400 | 3 | 3-0-0 |
| BOT144C103 | Plant Developmental Biology | 400 | 3 | 3-0-0 |
| BOT144C104 | Genetics, Cytogenetics & Plant Breeding | 400 | 3 | 3-0-0 |
| BOT144C115 | Microbiology & Plant Systematics Practical | 400 | 3 | 0-0-6 |
| BOT144C116 | Developmental Biology, Genetics & Plant Breeding Practical | 400 | 3 | 0-0-6 |
| BOT144S121 | Mushroom Cultivation: Principles and Commercial Applications | 400 | 2 | 1-0-2 |
| MOOCS | *MOOCs/online course will be identified by the dept from the list of courses available on MOOC online platform/SWAYAM Platform | 400 | 4 | |
| **TOTAL CREDIT FOR 1st SEMESTER** | | | **24** | |
| 2nd SEMESTER | | | | |
| **COURSE CODE** | **COURSE TITLE** | **LEVEL** | **CREDIT** | **L-T-P** |
| BOT144C201 | Applied Mycology & Crop Protection | 500 | 4 | 4-0-0 |
| BOT144C202 | Plant Physiology | 500 | 4 | 4-0-0 |
| BOT144C203 | Plant Ecology & Ecosystem Analysis | 500 | 4 | 4-0-0 |
| BOT144C214 | Applied Mycology, Plant Physiology, Ecology Practical | 500 | 4 | 0-0-8 |
| BOT144D201 | Herbal Medicinal Practices in India | 500 | 2 | 2-0-0 |
| BOT144S221 | Nursery Cultivation & Floriculture | 500 | 2 | 1-0-2 |

| MOOCS | *MOOCs/online course will be identified by the dept from the list of courses available on MOOC online platform/SWAYAM Platform | 400 | 4 | |
|--------|--------|--------|--------|--------|

**TOTAL CREDIT FOR 2ⁿᵈ SEMESTER** — **24**

**TOTAL CREDIT FOR 1ˢᵗ YEAR = 40**

**3ʳᵈ SEMESTER**

| COURSE CODE | COURSE TITLE | LEVEL | CREDIT | L-T-P |
|--------|--------|--------|--------|--------|
| BOT144C301 | Plant Biochemistry & Molecular Biology | 500 | 4 | 4-0-0 |
| BOT144C302 | Plant Biotechnology | 500 | 4 | 4-0-0 |
| BOT144C313 | Biochemistry, Molecular Biology & Biotechnology Practical | 500 | 4 | 0-0-8 |
| BOT144C321 | Project Dissertation I | 500 | 8 | 0-0-16 |

**TOTAL CREDIT FOR 3ʳᵈ SEMESTER** — 20

**OR 3ʳᵈ SEMESTER**

**(For students with 3ʳᵈ and 4ᵗʰ Semester Research)**

| BOT144R321 | Dissertation I | 500 | 20 | 0-0-40 |
|--------|--------|--------|--------|--------|

**4ᵗʰ SEMESTER**

| COURSE CODE | COURSE TITLE | LEVEL | CREDIT | L-T-P |
|--------|--------|--------|--------|--------|

*(for 'Coursework only' in lieu of Research)*

| BOT144C401 | Biostatistics & Bioinformatics | 500 | 4 | 4-0-0 |
|--------|--------|--------|--------|--------|
| BOT144C402 | Environment Pollution and Climate Change Mitigation | 500 | 4 | 4-0-0 |
| BOT144C421 | Project Dissertation II | 500 | 12 | 0-0-24 |

**OR 4ᵗʰ SEMESTER**

**(For students with 3ʳᵈ and 4ᵗʰ Semester Research)**

| BOT144R421 | Dissertation II | 500 | 20 | 0-0-40 |
|--------|--------|--------|--------|--------|

**TOTAL CREDIT FOR 2ⁿᵈ YEAR =** — **40**