



School of Science
Department of Biological Sciences
NEP 2020 - Course Structure

Programme Name: Bachelor of Science (Microbiology) (Honos./Honos. with Research)

Batch: AY 23-24 onwards

Semester – I

| Sr. No. | Core | Course Code | Course Name | Teaching Scheme (Hrs./Week) | | | | Examination Scheme | | | | Total Marks |
|---|-------|-------------|---------------------------------|-----------------------------|----------|-----------|-----------|--------------------------|------------|--------------------------|------------|-------------|
| | | | | L | T | P | C | Formative Assessment CIA | | Summative Assessment ESE | | |
| | | | | | | | | Course | Lab | Course | Lab | |
| MAJOR(MANDATORY + ELECTIVES) | | | | | | | | | | | | |
| 1 | Major | NYMI101 | Microbial Diversity | 3 | - | - | 3 | 50 | -- | 100 | -- | 100 |
| 2 | Major | NYMI102 | Principles of Microbiology | 3 | - | - | 3 | 50 | -- | 100 | -- | 100 |
| MINOR: NA | | | | | | | | | | | | |
| NA | | | | | | | | | | | | |
| Open Electives(OE)* | | | | | | | | | | | | |
| 3 | | | Open Elective I | 4 | -- | -- | 4 | 50 | -- | 100 | -- | 100 |
| Vocational and Skill Enhancement (VSEC) | | | | | | | | | | | | |
| 4 | VSC | NYMI111 | Bioinstrumentation - I | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| 5 | SEC | NSSS01 | Biofertilisers | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| Ability/Value Education Courses/ Indian Knowledge System(AEC/VEC/IKS)* | | | | | | | | | | | | |
| 6 | AEC | | Ability Enhancement Courses - I | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| 7 | VEC | | Value Education Courses- I | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| 8 | IKS | | Indian Knowledge System - I | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| OJT/FP/CEP/CC/RP | | | | | | | | | | | | |
| 9 | CC | NYMI112 | Yoga and Meditation | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| Total | | | | 10 | 0 | 24 | 22 | 150 | 300 | 300 | 300 | 900 |

| CIA - Continuous Internal Assessment ESE - End Semester Theory Exam. L - Theory Lecture, T - Tutorial, P - Practical | OJT - On Job Training FP - Field Project CEP - Community Engagement Project CC - Curricular Course RP - Research Project * - Refer University Notification | CIA | Weightage | Description |
|--|---|--|-----------|-----------------|
| | | CIA 1 | 10% | Home Assignment |
| CIA 2 | 20% | Mid-Term Exam (MTE) | | |
| CIA 3 | 10% | Activity/Project and research based learning along with seminar presentation | | |
| CIA 4 | 10% | Behavioural Attitude + General Discipline Theory + Practical attendance | | |
| CIA TOTAL | | 50% | | |
| Written Examination - End Semester Exam (ESE) | | 50% | | |
| TOTAL | | 100% | | |

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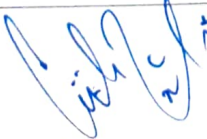
Semester – II

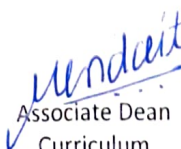
For the Batch: AY 23-24 onwards

| Sr. No. | Core | Course Code | Course Name | Teaching Scheme (Hrs./Week) | | | | Examination Scheme | | | | Total Marks |
|---|-------|-------------|----------------------------------|-----------------------------|----------|-----------|-----------|----------------------|------------|----------------------|------------|-------------|
| | | | | L | T | P | C | Formative Assessment | | Summative Assessment | | |
| | | | | | | | | CIA | | ESE | | |
| Course | Lab | Course | Lab | | | | | | | | | |
| MAJOR(MANDATORY + ELECTIVES) | | | | | | | | | | | | |
| 1 | Major | NYMI201 | Techniques in Microbiology | 3 | - | - | 3 | 50 | -- | 100 | -- | 100 |
| 2 | Major | NYMI202 | Fundamental of Biochemistry | 3 | - | - | 3 | 50 | -- | 100 | -- | 100 |
| MINOR: | | | | | | | | | | | | |
| 3 | Minor | NYMI203 | Minor - I | 2 | | | 2 | 50 | -- | 100 | -- | 100 |
| Open Electives(OE)* | | | | | | | | | | | | |
| 4 | | | Open Elective II | 4 | | | 4 | 50 | -- | 100 | -- | 100 |
| Vocational and Skill Enhancement (VSEC) | | | | | | | | | | | | |
| 5 | SEC | NYMI211 | Bioinstrumentation - II | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| 6 | VSC | NSSS02 | Wine Technology | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| Ability/Value Education Courses/ Indian Knowledge System(AEC/VEC/IKS)* | | | | | | | | | | | | |
| 7 | AEC | | Ability Enhancement Courses - II | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| 8 | VEC | | Value Education Courses- II | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| OJT/FP/CEP/CC/RP | | | | | | | | | | | | |
| 9 | CC | NYMI212 | SUN Clubs | -- | -- | 4 | 2 | -- | 50 | -- | 50 | 100 |
| TOTAL | | | | 12 | - | 20 | 22 | 200 | 250 | 400 | 250 | 900 |

| CIA | Weightage | Description |
|---|-------------|--|
| CIA 1 | 10% | Home Assignment |
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| CIA TOTAL | 50% | |
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| TOTAL | 100% | |


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| MINOR | | | |
|--------|----------|--------------|-------------------------------------|
| Sr. No | Semester | Course Code | Name of the course (Choose any One) |
| 1 | II - VI | NYMIM01 - 10 | Biotechnology(I - V) |
| 2 | | NYMIM11 -20 | Chemistry(I - V) |
| 3 | | NYMIM21 -30 | Forensic Sciences(I - V) |
| 4 | | NYMIM31-40 | Mathematics(I - V) |
| 5 | | NYMIM41-50 | Physics(I - V) |

Exit Option: Award of UG certificate in Major with 44 credits and additional 4 credits of Internship or Continue with Major and Minor.


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