

Progressive Education Society's  
Modern College of Arts, Science and Commerce, Ganeshkhind, Pune 411 016  
(AUTONOMOUS)

**T. Y. B. Sc. (Biotechnology)**

**Academic Year 2024-25**

**Syllabus Structure**

## Semester V

### Theory

Subject Code	Name of Subject	Credits	No.of Lectures	Marks Distribution
25 BBT-501	Industrial Microbiology	2	30	50 (35 External +15 Internal)
25 BBT-502	Recombinant DNA Technology	2	30	50 (35 External +15 Internal)
25 BBT-503	Plant Tissue Culture	2	30	50 (35 External +15 Internal)
25 BBT-504	Animal Tissue Culture	2	30	50 (35 External +15 Internal)
25 BBT-505	Applied Biotechnology I	2	30	50 (35 External +15 Internal)
25 BBT-506	Biodiversity and Systematics	2	30	50 (35 External +15 Internal)
25 BBT-507	Review Writing / Case Study	2	30	50 (35 External +15 Internal)
25 BBT-508	Project Formulation and Presentation	2	30	50 (35 External +15 Internal)

### Practical

Subject Code	Name of Subject	Credits	No.of Practical	Marks Distribution
25 BBT-509	Practical in Industrial Microbiology	2	15	50 (35 External +15 Internal)
25 BBT-510	Practical in Plant and Animal Tissue Culture	2	15	50 (35 External +15 Internal)
25 BBT-511	Practical in Recombinant DNA Technology and Biodiversity	2	15	50 (35 External +15 Internal)
<b>Total Credits (Theory + Practical)</b>		<b>22</b>		

## Semester VI

### Theory

Subject Code	Name of Subject	Credits	No.of Lectures	Marks Distribution
25 BBT-601	Enzyme and Enzyme Technology	2	30	50 (35 External +15 Internal)
25 BBT-602	Agriculture Biotechnology	2	30	50 (35 External +15 Internal)
25 BBT-603	Applied Biotechnology II	2	30	50 (35 External +15 Internal)
25 BBT-604	Food and Pharmaceutical Biotechnology	2	30	50 (35 External +15 Internal)
25 BBT-605	Bioinformatics	2	30	50 (35 External +15 Internal)
25 BBT-606	Research Methodology	2	30	50 (35 External +15 Internal)
25 BBT-607	SEC III & IV - Project	2	30	50 (35 External +15 Internal)
25 BBT-608		2	30	50 (35 External +15 Internal)

### Practical

Subject Code	Name of Subject	Credits	No.of Practical	Marks Distribution
25 BBT-609	Practical in Enzyme Technology	2	15	50 (35 External +15 Internal)
25 BBT-610	Practical in Agriculture Biotechnology and Bioinformatics	2	15	50 (35 External +15 Internal)
25 BBT-611	Practical in Food and Pharmaceutical Biotechnology	2	15	50 (35 External +15 Internal)
<b>Total Credits (Theory + Practical)</b>		<b>22</b>		

