

**Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous)
Ganeshkhind, Pune 411016
www.moderncollegegk.org
(Faculty of Science & Technology)**

**T.Y. B. Sc. Microbiology
Structure of the B. Sc. course Choice Based Credit System 2024-25**

Semester III

Theory/Practical	Course code	Course Title	Credits
Discipline specific core theory	24-MB-351	Medical Microbiology	3
	24-MB-352	Basic and conceptual Immunology	3
	24-MB-353	Enzymology	3
	24-MB-354	Genetics	3
	24-MB-355	Industrial Microbiology	3
	24-MB-356	Agricultural Microbiology	3
Discipline specific core Practical	24-MB-357	Practical course-I based on: 24-MB 351 Medical Microbiology and 24-MB 352 Basic and conceptual Immunology	3
	24-MB-358	Practical course-II based on MB 358 MB 352 Immunology I and 24-MB 353 Enzymology and 24MB-353 Genetics	3
	24-MB-359	Practical course-III based on: 24-MB -355 Industrial Microbiology and 24MB-356Agricultural Microbiology	3
Skill based Elective course	24-MB-3510	Marine Microbiology	3
Skill based Elective course	24-MB-3511	Dairy Microbiology	3

Semester IV

Theory/Practical	Course code	Course Title	Credits
Discipline specific core theory	24-MB-361	Microbial diseases and chemotherapy	3
	24-MB-362	Advanced immunology and immunological techniques	3
	24-MB-363	Metabolism	3
	24-MB-364	Molecular Biology	3
	24-MB-365	Bioprocess Technology	3
	24-MB-366	Food Microbiology	3
Discipline specific core Practical	24-MB-367	Practical course-I. Based on: Specific MB 361 Medical Microbiology II 24-MB - 361 Microbial diseases and chemotherapy Elective and Course MB 362 Immunology II 24-MB -362 Advanced immunology and immunological techniques	3
	24-MB-368	Practical course-II. Based on: 24- MB- 363 Metabolism and MB 364 Molecular Biology 24-MB- 364 Molecular Biology	3
	24-MB-369	Practical course III. Based on: 24-MB- 365 Bioprocess Technology and 24-MB- 366 Food Microbiology	3
Skill based Elective course	24-MB-3610	Waste management	3
Skill based Elective course	24-MB-3611	Nano biotechnology	3