



(Approved by UGC & Govt.)

PRIMEASIA UNIVERSITY

a mission with a vision

Star Tower, 12 Kemal Ataturk Avenue, Banani C/A, Dhaka-1213, Bangladesh, Phone : 9822133, 9821498-501, Mobile : 01777676548, 01857333440, 01621462175, Fax: +880-2-9820868, E-mail : info@primeasia.edu.bd, Website : http://www.primeasia.edu.bd

Department of Microbiology Bachelor of Science (Hons.) in Microbiology

List of Courses

Semester 1

CODE	COURSE TITLE	PREREQ.	CREDITS
ENG 101	Basic English	NI	3
STAT 101	Introduction to Statistics	NI	3
CHEM 101	Inorganic Chemistry	NI	2
MBIO 101	General Microbiology-I	NI	3
CHEM 102	Inorganic Chemistry Practical	NI	1
MBIO 104	Microbiology Practical-I	NI	1
TOTAL CREDITS :			13

Semester 3

CODE	COURSE TITLE	PREREQ.	CREDITS
CSC 101	Introduction to Computers	NI	3
MBIO 105	Microbial Chemistry	NI	3
BC 101	Basic Biochemistry-I	NI	3
MBIO 106	Microbiology Practical-II	NI	1
MBIO 107	Viva Voce	NI	1
TOTAL CREDITS :			11

Semester 5

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 204	Environmental Microbiology	NI	3
MBIO 205	Microbial Metabolism-II	MBIO 201	3
MBIO 206	Human Physiology	NI	3
MBIO 207	Microbiology Practical-IV	NI	1
TOTAL CREDITS :			10

Semester 7

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 301	Medical Microbiology-II	MBIO 210	3
MBIO 302	Basic Microbial Genetics	NI	3
MBIO 303	Virology-I	NI	3
MBIO 304	Soil Microbiology	NI	3
MBIO 305	Microbiology Practical-VI	NI	1
TOTAL CREDITS :			13

Semester 9

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 311	Microbiology of Frozen Food & Fish	NI	3
MBIO 312	Virology-II	MBIO 303	3
MBIO 313	Industrial Microbiology	NI	3
MBIO 314	Pharmaceutical Microbiology	NI	3
MBIO 315	Microbiology Practical-VII	NI	1
MBIO 316	Viva Voce	NI	1
TOTAL CREDITS :			14

Semester 11

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 406	Analytical Microbiology	NI	3
MBIO 407	Microbial Biotechnology	NI	3
MBIO 408	Quality Control of Food, Fish & Beverages	NI	3
MBIO 409	Microbiology Laboratory-X	NI	1
TOTAL CREDITS :			10

Semester 2

CODE	COURSE TITLE	PREREQ.	CREDITS
CHEM 103	Organic Chemistry	CHEM 101	2
ENG 102	Introduction to Composition	ENG 101	3
MBIO 102	General Microbiology-II	MBIO 101	3
MBIO 103	Basic techniques in Microbiology	NI	3
CHEM 104	Organic Chemistry Practical	CHEM 102	1
TOTAL CREDITS :			12

Semester 4

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 201	Microbial Ecology	NI	3
MBIO 202	Microbial Metabolism-I	NI	3
BC 201	Basic Biochemistry-II	BC 101	3
MBIO 306	Immunology I	NI	3
MBIO 203	Microbiology Practical-III	NI	1
TOTAL CREDITS :			13

Semester 6

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 208	Food Microbiology-I	NI	3
MBIO 209	Mycology	NI	3
MBIO 210	Medical Microbiology-I	NI	3
MGT 213	Principle of Management	NI	3
MBIO 211	Microbiology Practical-V	NI	1
MBIO 212	Viva Voce	NI	1
TOTAL CREDITS :			14

Semester 8

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 411	Immunology-II	MBIO 306	3
MBIO 307	Agriculture Microbiology	NI	3
MBIO 308	Enzymology	NI	3
MBIO 309	Microbial Molecular Genetics	NI	3
MBIO 310	Microbiology Practical-VII	NI	1
TOTAL CREDITS :			13

Semester 10

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 401	Clinical & Diagnostic Microbiology	NI	3
MBIO 402	Food Microbiology-II	MBIO 208	3
MBIO 403	Fermentation technology	NI	3
MBIO 404	Genetic Engineering	NI	3
MBIO 405	Microbiology Practical-IX	NI	1
TOTAL CREDITS :			13

Semester 12

CODE	COURSE TITLE	PREREQ.	CREDITS
MBIO 410	Environmental Pollution & Bioremediation	NI	3
MBIO 412	Microbiology Project	NI	8
MBIO 413	Viva-Voce	NI	2
TOTAL CREDITS :			13

Total Semester : 12 | Total Credits : 149



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Department of Microbiology Master of Science in Microbiology.

List of Courses

Semester 1

CODE	COURSE TITLE	PREREQ.	CREDITS
MPG 501	Environmental Biotechnology	Nil	3
MPG 503	Immunopathology & Vaccine Development	Nil	3
MPG 515	Advanced Pharmaceutical Microbiology	Nil	3
MPG 516	Advanced Clinical and Diagnostic Microbiology	Nil	3
MPG 518	Seminar – I	Nil	1
MPG 519	Viva Voce	Nil	1
TOTAL CREDITS :			14

Semester 2

CODE	COURSE TITLE	PREREQ.	CREDITS
MPG 502	Molecular Genetics	Nil	3
MPG 504	Bioprocess Technology	Nil	3
MPG 507	Bacterial Pathogenesis & Molecular Epidemiology	Nil	3
MPG 508	Microbiological Safety of Processed Food and Beverages	Nil	3
MPG 521	Seminar – II	Nil	1
MPG 522	Viva Voce	Nil	1
TOTAL CREDITS :			14

Semester 3

CODE	COURSE TITLE	PREREQ.	CREDITS
MPG 513	Thesis	Nil	6
MPG 523	Seminar – III	Nil	1
MPG 525	Viva voce	Nil	1
TOTAL CREDITS :			08

Total Semester : 03 | Total Credits : 36