

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

M. Sc. Biotechnology

(Five Years Integrated Course)

Teaching and Evaluation Scheme for Semester-I (Credits: 28)

Paper	Teaching Schedule Hours/Week	University Exam Theory/Practical		Internal Exam Theory/Practical	Total Theory/Practical
		Duration (Hours)	Marks		
Foundation Course	2	3	70	30	100
Elective Course	2	3	70	30	100
Core 1					
Course 1: Introduction to Biotechnology	3	2	50	20	70
Course 2: Fundamentals of Microbiology	3	2	50	20	70
Practical Core 1: Microbiology	4	1 x 4	40	20	60
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Core 2					
Course 1: Fundamentals of Animal Sciences	3	2	50	20	70
Course 2: Fundamentals of Plant Sciences	3	2	50	20	70
Practical Core 2: Botany & Zoology	4	1 x 4	40	20	60
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Core 3					
Course 1: Principles of Physics	3	2	50	20	70
Course 2: Principles of Chemistry	3	2	50	20	70
Practical Core 3: Chemistry & Physics	4	1 x 4	40	20	60
TOTAL	34		560	240	800

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Teaching and Evaluation Scheme for Semester-II (Credits: 28)

Paper	Teaching Schedule Hours/Week	University Exam Theory/Practical		Internal Exam Theory/Practical	Total Theory/Practical
		Duration (Hours)	Marks		
Foundation Course	2	3	70	30	100
Elective Course	2	3	70	30	100
Core 1					
Course 1: Cell Biology	3	2	50	20	70
Course 2: Biochemistry	3	2	50	20	70
Practical Core 1: Cell Biology & Biochemistry	4	1 x 4	40	20	60
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Core 2					
Course 1: Applied Botany	3	2	50	20	70
Course 2: Applied Zoology	3	2	50	20	70
Practical Core 2: Applied Botany & Zoology	4	1 x 4	40	20	60
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Core 3					
Course 1: Microbial Nutrition & Growth	3	2	50	20	70
Course 2: Fundamentals of Genetics	3	2	50	20	70
Practical Core 3: Microbiology & Genetics	4	2 x 4	40	20	60
TOTAL	34		560	240	800

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Teaching and Evaluation Scheme for Semester-III (Credits: 22)

Paper	Teaching Schedule Hours/Week	University Exam Theory/Practical		Internal Exam Theory/Practical	Total Theory/Practical
		Duration (Hours)	Marks		
Foundation Course	2	3	70	30	100
Elective Course	2	3	70	30	100
Core 1					
Course 1: Instrumentation & Techniques-I	2	2	50	20	70
Course 2: Applied Microbiology	2	2	50	20	70
Course 3: Fundamentals of Immunology	2	2	50	20	70
Practical Core 1: Microbiology, Immunology & Instrumentation	6	2 x 4	60	30	90
Core 2					
Course 1: Plant Physiology-I	2	2	50	20	70
Course 2: Animal Physiology-I	2	2	50	20	70
Course 3: Microbial Physiology-I	2	2	50	20	70
Practical Core 2: Plant, Animal and Microbial Physiology Part-I	6	2 x 4	60	30	90
TOTAL	28		560	240	800

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Teaching and Evaluation Scheme for Semester-IV (Credits: 22)

Paper	Teaching Schedule Hours/Week	University Exam Theory/Practical		Internal Exam Theory/Practical	Total Theory/Practical
		Duration (Hours)	Marks		
Foundation Course	2	3	70	30	100
Elective Course	2	3	70	30	100
Core 1					
Course 1: Instrumentation & Techniques-II	2	2	50	20	70
Course 2: Enzymes & Coenzymes	2	2	50	20	70
Course 3: Introduction to Molecular Biology	2	2	50	20	70
Practical Core 1: Enzymes, Molecular Biology & Instrumentation	6	2 x 4	60	30	90
Core 2					
Course 1: Plant Physiology-II	2	2	50	20	70
Course 2: Animal Physiology-II	2	2	50	20	70
Course 3: Microbial Physiology-II	2	2	50	20	70
Practical Core 2: Plant, Animal and Microbial Physiology Part-II	6	2 x 4	60	30	90
TOTAL	28		560	240	800

