

Color Code Description:		
Global	National / Local	Regional / National

Sr. No.	GA No.	Graduate Attributes	PO No.	Programme Outcomes
1	GA1	Scholarship: research, inquiry and lifelong learning	PO1	Knowledge & communication skills: Gain knowledge on subjects and topics in biotechnology domain & express thoughts in an effective manner using different modes of communication.
2	GA1	Scholarship: research, inquiry and lifelong learning	PO2	Critical thinking: Apply the knowledge of biotechnology to analyse and evaluate current gaps
3	GA1	Scholarship: research, inquiry and lifelong learning	PO3	Innovation: Discover new concepts to bridge gaps in our understanding of the biotechnology field. Invent new methods and techniques. Provide biotechnological solutions to the challenges faced at local and global levels.
4	GA2	Global citizenship: ethical, social and professional understanding	PO4	Human values: Understand and appreciate human diversity. Develop professional ethics for working in the biotechnology industry. Learn to work in teams and groups.
5	GA3	Eco-literate: sensitivity towards a sustainable environment	PO5	Environment and sustainability: Sense the impact of human development on environment. Develop biotechnological solutions to mitigate environmental deterioration. Identify means for sustainable development.
6	GA4	Employability: equipped with skills, attributes, leadership and entrepreneurial qualities that society needs; being capable of making a contribution to society through earning a living	PO6	Employability: Gain skills that will fetch jobs in the biotechnology industry. Gain entrepreneurial skills to create jobs.

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	PO1	PO2	PO3	PO4	PO5	PO6
1	SEM III	0403420302 - PR	TH4109	Practicals in Bioanalytical Techniques	CO1	Students should be able to understand and practice the principles of bioanalytical techniques.	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M
1					CO2	Students should be able to display proficiency in handling sophisticated analytical instruments in academic setup	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M
1					CO3	To learn the analysis of compounds related to health (e.g. drugs, metabolites).	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M
1					CO4	Students should be able to learn interpretation of chromatograms and spectra	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H
2	SEM III	0403420304 - PP	TH4118	Virology	CO1	Value the ethical issues associated with applications of stem cell therapy.	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Strong-H
2					CO2	Sense ethics related issues in research on infectious agents like viruses.	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
2					CO3	Gain knowledge on virus-host cell interaction and their effects at the cellular and molecular level	Strong-H	Moderate-M	Strong-H	Moderate-M	Weak-L	Moderate-M

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2					CO4	Learn various strategies implemented to control and prevent viral infections	Strong-H	Moderate-M	Strong-H	Moderate-M	Weak-L	Moderate-M
2					CO5	Value the ethical issues associated with applications of stem cell therapy.	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
3	SEM III	0403420303 - PP	TH4112	Practicals in Immunology and Virology	CO1	Students should be able to learn the techniques used for the identification and quantification of antibodies and antigens.	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Strong-H
3					CO2	Students should be able to experience in virus propagation, harvesting and identification using tissue culture and chicken eggs.	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Strong-H
3					CO3	To develop inquisitiveness and creativity through discussions on applications of immunological techniques in diagnostics and research worldwide.	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Strong-H
3					CO4	To sensitize the importance of precautionary measures in experiments with virus and ethics related to animal and human experiments.	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L
3					CO5	Understand the importance of virus-related research for dealing with the viral infections.	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Weak-L
4	SEM III	0403420301 - PP	TH4100	Bioprocess Engineering	CO1	Students will have understanding of Bioprocess design and operations.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H
4					CO2	Students will be able to analyze the economics of bioprocess, applications and also current national and international scenario. S	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Strong-H
4					CO3	Student will able to work in the area of bioenergy such as biofuel, biopower and bioproducts	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Strong-H
4					CO4	Student will able to implement the ideas to design the new bioprocess.	Moderate-M	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H
4					CO5	Student will able to solve the problems faced during operation of bioprocess.	Moderate-M	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H
4					CO6	Students will have more training and job options	Moderate-M	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H
5	SEM III	0403420306 - PP	TH4106	Introduction to Laboratory Animal Science	CO1	To sensitize the ethical use of laboratory animals and alternatives to animal models.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H
5					CO2	TO learn the management practices of laboratory animals.	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L
5					CO3	Students should be able to learn handling of commonly used laboratory animals.	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M
5					CO4	Students should be able to learn methods of detection of bacterial and viral infections in laboratory rodent and other animal colonies.	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H

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6	SEM III	0403420307 - PP	TH4117	Stem Cell Biology	CO1	List the properties that define a stem cell	Strong-H	Moderate-M	Strong-H	Weak-L	Strong-H	Moderate-M
6					CO2	Discuss different types of stem cells based upon their origin and pluripotency	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Moderate-M
6					CO3	Use knowledge of the intrinsic and extrinsic factors that are critical for stem cell regulation	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
6					CO4	Examine the potential clinical uses of stem cells and the possible challenges that need to be overcome.	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M
6					CO5	Value the ethical issues associated with applications of stem cell therapy	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
7	SEM III	0403420305 - PP	T1656	Intellectual Property Rights	CO1	Students should be able to define and discuss key Intellectual Property Rights concepts.	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L
7					CO2	Students should be able to discuss distinct contribution of intellectual property law to the protection of human creativity, innovation, and efforts	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Weak-L
7					CO3	Students should be able to identify and differentiate basic types of intellectual property defined by law.	Moderate-M	Moderate-M	Strong-H	Strong-H	Weak-L	Weak-L
7					CO4	Students should be able to discuss Patent Act, Copyright, Trademark, and, Design Act in the learning and research process.	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L
8	SEM III	0403420309 - PP	TH4096	Advanced Genomics and Proteomics	CO1	List the techniques and their applications in genomic and proteomic analysis	Strong-H	Strong-H	Moderate-M	Weak-L	Strong-H	Moderate-M
8					CO2	Explain the principle of genomic and proteomic techniques and compare them for applications, advantages, and limitations	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M
8					CO3	Analyze the results of genomic and proteomic data	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L
8					CO4	Evaluate the experimental design in omics analysis	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M
9	SEM III	0403420310 - PP	TH4102	Environmental Biotechnology	CO1	Explain the role of microorganisms and plants to mitigate environmental pollution	Strong-H	Strong-H	Moderate-M	Weak-L	Strong-H	Moderate-M
9					CO2	Apply the concepts of environmental biotechnology for bioremediation.	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M
9					CO3	Examine the latest developments, research and industrial scope of environmental biotechnology	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L
9					CO4	Identify various concepts in environmental management and threat assessment.	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M
10	SEM III	0403420311 - PP	T4820	Project (Part I)	CO1	The student should be able to outline project proposal.	Moderate-M	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L
10					CO2	The student should be able to analyze the research findings in the relevant area of the project.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
10					CO3	The student should be able to construct the hypothesis for the research problem identified.	Strong-H	Moderate-M	Weak-L	Strong-H	Strong-H	Moderate-M

10					C04	The student should be able to plan the experiments to support the hypothesis.	Strong-H	Weak-L	Moderate-M	Moderate-M	Strong-H	Strong-H
10					C05	The student should be able to interpret the results.	Strong-H	Weak-L	Strong-H	Strong-H	Moderate-M	Moderate-M
11	SEM IV	403420402 - PP	T4820	Project (Part II)	C01	The student should be able to outline project proposal.	Moderate-M	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L
11					C02	The student should be able to analyze the research findings in the relevant area of the project.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
11					C03	The student should be able to construct the hypothesis for the research problem identified.	Strong-H	Moderate-M	Weak-L	Strong-H	Strong-H	Moderate-M
11					C04	The student should be able to plan the experiments to support the hypothesis.	Strong-H	Weak-L	Moderate-M	Moderate-M	Strong-H	Strong-H
					C05	The student should be able to interpret the results.	Strong-H	Weak-L	Strong-H	Strong-H	Moderate-M	Moderate-M
12	SEM IV	403420401 - PP	T4820	Project	C01	The student should be able to outline project proposal.	Moderate-M	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L
12					C02	The student should be able to analyze the research findings in the relevant area of the project.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
					C03	The student should be able to construct the hypothesis for the research problem identified.	Strong-H	Moderate-M	Weak-L	Strong-H	Strong-H	Moderate-M
					C04	The student should be able to plan the experiments to support the hypothesis.	Strong-H	Weak-L	Moderate-M	Moderate-M	Strong-H	Strong-H
					C05	The student should be able to interpret the results.	Strong-H	Weak-L	Strong-H	Strong-H	Moderate-M	Moderate-M

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13	SEM I	0403420101 - PP	TH4099	Biochemistry	CO1	To study and understand structures and functions of biomolecules	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M
13					CO2	To be able to relate and understand the integrated nature of metabolism	Strong-H	Strong-H	Strong-H	Weak-L	Moderate-M	Moderate-M
13					CO3	To understand underlying principles of regulation of metabolism	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Moderate-M
14	SEM I	0403420102 - PR	TH4110	Practicals in Biochemistry	CO1	Demonstrate expertise in bacterial isolation and classification.	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Strong-H
14					CO2	Students should be able to plan, perform and interpret microbiology experiments.	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M
14					CO3	Students should be able to analyse the factors affecting bacterial growth.	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M
14					CO4	Students should be able to evaluate antimicrobial resistance through MIC.	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H
15	SEM I	0403420103 - PP	TH4098	Advance Molecular Biology	CO1	Explain processes involved in the flow of genetic information.	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Moderate-M
15					CO2	Interpret the results obtained from molecular biology experiments	Moderate-M	Moderate-M	Strong-H	Strong-H	Weak-L	Weak-L
15					CO3	Compare and contrast molecular pathways in eukaryotes and prokaryotes.	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Moderate-M
15					CO4	Evaluate the results of the molecular biology experiments.	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H
16	SEM I	0403420104 - PP	TH4107	Microbiology	CO1	Student should be able to explain the factors affecting microbial growth, microbial interactions, antimicrobial interactions and outbreak investigations.	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
16					CO2	Student should be able to communicate applied microbiology related studies and data effectively to audiences in written and oral formats.	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Moderate-M
16					CO3	Student should be able to critically evaluate relevant scientific literature in applied microbiology and demonstrate comprehension of the nature, scope and technical issues through written and oral tasks.	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
17	SEM I	0403420105 - PR	TH4114	Practicals in Molecular Biology	CO1	The student should be able to perform core genetics and molecular biology laboratory techniques.	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Strong-H
17					CO2	Student should be able to collect, organize, analyze, evaluate and interpret data using appropriate quantitative methods, and communicate information in a variety of written and oral formats.	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H
17					CO3	Student should be able to explain and interpret the results obtained using various Molecular Biology techniques.	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H
17					CO4	Student should be able to work and learn effectively both independently and collaboratively.	Strong-H	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M

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18	SEM I	0403420106 - PP	TH4116	Research Methodology and Biostatics	CO1	To understand and formulate a research problem	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
18					CO2	To analyze the different scientific research designs and methods	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
18					CO3	To familiarize about the set up a research study	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L
18					CO4	To relate Biostatistics methods required in Scientific Research	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
18					CO5	To understand and appreciate research and publication Ethics	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Weak-L
19	SEM I	0403420107 - PP	TH4103	Genetic Analysis	CO1	Explain the laws of genetics, population genetics, and methods used in structural and functional genomics	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M
19					CO2	Identify the type of inheritance, estimate allele/genotype/phenotype frequency and calculate linkage distance	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M
19					CO3	Estimate the probability of inheritance. Analyze the DNA fingerprinting data. Analyze if the population is in a state of equilibrium.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Moderate-M
19					CO4	Evaluate the results, conclusion, hypotheses based on the genetic analysis	Moderate-M	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L
20	SEM II	0403420201 - PR	TH4113	Practicals in Microbiology	CO1	Students will be able to demonstrate expertise in bacterial isolation and classification.	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M
20					CO2	Students will be able to plan, perform and interpret microbiology experiments.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H
20					CO3	Student will be able to analyse the factors affecting bacterial growth.	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L
20					CO4	Students will be able to evaluate antimicrobial resistance through MIC.	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H
21	SEM II	0403420202 - PP	TH4097	Advanced Immunology	CO1	To discuss the characteristic features and functions of organs, cells and molecules of the immune system.	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M
21					CO2	To interpret how the immune system acquires the ability to recognize/differentiate between self and non-self and what factors lead to malfunction as seen in immune disorders.	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L
21					CO3	To analyze the molecular mechanisms of the immunological responses.	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M
21					CO4	To evaluate the cellular and molecular factors leading to abnormal immune responses	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M
22	SEM II	0403420203 - PP	TH4101	Cell Biology	CO1	Students will be able to list characteristics of eukaryotic cells.	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M

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22					CO2	Students will be able to explain the organisation, mechanism(s) of cellular communication and regulation of cell division in eukaryotic cells.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Moderate-M
22					CO3	Students will be able to demonstrate the functional characteristics of a eukaryotic cell.	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L
22					CO4	Students will be able to compare the cellular and molecular differences between a functionally normal and deregulated cell.	Strong-H	Moderate-M	Weak-L	Strong-H	Weak-L	Moderate-M
23	SEM II	0403420204 - PP	TH4104	Genetic Engineering	CO1	To enlist various tools and techniques in recombinant DNA technology	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Moderate-M
23					CO2	To explain how recombinant DNA technology can be used for certain applications.	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
23					CO3	To compare various methods of genome editing and transgenesis	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
23					CO4	To illustrate the most successful examples of the use of recombinant DNA technology for the benefit of mankind	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L
24	SEM II	0403420205 - PR	TH4108	Practicals in Animal Tissue Culture	CO1	To sensitize the ethical use of laboratory animals and alternatives to animal models.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H
24					CO2	To learn the management practices of laboratory animals.	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L
24					CO3	Students should be able to learn handling of commonly used laboratory animals.	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M
24					CO4	Students should be able to learn methods of detection of bacterial and viral infections in laboratory rodent and other animal colonies.	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H
25	SEM II	0403420206 - PR	TH4115	Practicals in Recombinant DNA Technology	CO1	Student should be able to perform core recombinant DNA technology laboratory techniques with main focus on molecular cloning.	Strong-H	Weak-L	Moderate-M	Strong-H	Strong-H	Strong-H
25					CO2	Student should be able to collect, organize, analyze, evaluate and interpret data using appropriate quantitative methods, and communicate information on laboratory aspect of recombinant DNA technology in a variety of written and oral formats.	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H
25					CO3	Student should be able to explain and interpret results obtained using various recombinant DNA technology techniques.	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Moderate-M
25					CO4	Student should be able to work and learn laboratory aspect of recombinant DNA technology effectively both independently and collaboratively.	Strong-H	Strong-H	Strong-H	Weak-L	Moderate-M	Strong-H
26	SEM II	0403420207 - PR	TH4111	Practicals in Bioinformatics	CO1	The student should be able to explain the principles of DNA and protein sequencing techniques and techniques of quantitative estimation of gene / protein expression.	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H

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26					CO2	The student should be able to apply various tools in bioinformatics for analysis of biological data.	Strong-H	Strong-H	Strong-H	Weak-L	Moderate-M	Strong-H
26					CO3	The student should be able to analyze sequences of biomolecules using existing tools and compare the contrast the techniques for their advantages and limitations.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H
26					CO4	The student should be able to evaluate the results obtained and the hypothesis drawn from the analysis of biological data using bioinformatics tools.	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H
27	SEM II	0403420208 - PP	TH4105	Genomics, Proteomics and Bioinformatics	CO1	The student should be able to explain the principles of DNA and protein sequencing techniques and techniques of quantitative estimation of gene / protein expression.	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
27					CO2	The student should be able to apply various tools in bioinformatics for analysis of biological data.	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
27					CO3	The student should be able to analyze sequences of biomolecules and compare the contrast the techniques for their advantages and limitations.	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Strong-H
27					CO4	The student should be able to evaluate the results obtained and the hypothesis drawn from the analysis of biological data using bioinformatics tools.	Strong-H	Moderate-M	Strong-H	Moderate-M	Weak-L	Moderate-M
28	SEM II	0403420209 - PP	T4005	Integrated Disaster Management*	CO1	To enable student understand various types of disasters, its preparedness and management.	Weak-L	Weak-L	Moderate-M	Moderate-M	Moderate-M	Strong-H
28					CO2	To instill knowledge on reducing disasters and capacity building through community participation.	Strong-H	Moderate-M	Weak-L	Strong-H	Strong-H	Moderate-M
28					CO3	To train students to perform First aid and CPR in an emergency	Moderate-M	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H