

Sr. No	Subject Code	Subject Name	Subject category	Course Outcome
B.Sc(Hons)Microbiology 1st Year				
1	MICRO1C01	Introduction to microbiology and microbial diversity	Core course	To introduce the students to the basics of microbiology and learn about various structural details of different types of microbes.
2	MICRO1C02	Bacteriology	Core course	To make students aware about morphology, physiology, ecology and genetics of bacteria.
3	MICRO1C03	Biochemistry	GE-2	
4	MICRO1C04	Virology	SEC	To make students familiar to the structural and metabolic aspects of virus and its control
5	BIOTECH1GE01	Mycology and phycology	GE	To inform the students about different aspects of fungi and algae and their applications in different fields.
6.	BIOTECH1GE02	Cell biology	GE	By understanding how cells work students get a detailed knowledge of the various mechanisms on which living beings work
B.Sc. (Hons) microbiology 2nd year				
1	MICRO2C05	Microbial physiology and metabolism	Core	To make students aware about microbial cell structure, microbial growth and microbial metabolism
2	MICRO2C06	Environmental microbiology	Core	To make students familiar with role of microbes in environment and how they can help in preserving the environment.
3	MICRO2C07	Recombinant DNA Technology	Core	The subject provides the students with an understanding of the manipulation of genes in order to produce modified organisms with better properties.
4	MICRO2C08	Industrial Microbiology	Core	Gives knowledge of use of microorganisms in production of various products.
5	MICRO2C09	Microbes in Sustainable Agriculture and Development	DSE	To make students aware about the use of microorganisms in sustainable agriculture
6	MICRO2C010	Mol. Diagnostics	Core	To make students aware about the

				different molecular techniques and methods used in their diagnosis and identification.
7	BIOTECH2GE3	Molecular Biology	GE	To make students familiar about structure, function of macromolecules viz. DNA, RNA, Proteins and their biosynthesis as well as regulation.
8	BIOTECH2GE4	Immunology	GE	The subject provides a detailed knowledge of our immune system and how it works to fight against various diseases.
9	MICR2SE01	Microbial Quality Control in Food and Pharmaceutical Industries	SEC	To make students aware about the different types of media and other cultural and molecular techniques used in the detection and control of common contaminants in food and other industries.
10	MICROSEC03	Biofertilizers and biopesticides	SEC	To make students aware about the use of microorganisms in sustainable agriculture
6th Semester				
1	MICRO6C13	Med. microbiology	Core course	To familiarize the students with different types of bacteria, fungi, viruses and protozoans of medical importance.
2	MICRO6C14	Industrial microbiology	Core Course	To make students aware about the use of microorganisms in industrial processes
3	MICRO6DSE09	Instrumentation and biotechniques	DSE	It gives the students detailed information about the working and instrumentation of various instruments used in microbiology and biotechnology.
4	MICRO6DSE10	Forensic science	DSE	To make students aware about criminal law and civil law by utilizing biotechnological tools and techniques.

Department of Microbiology
B.Sc. (Hons) Microbiology
Course Outcomes

- To introduce the students to the basics of microbiology and learn about various structural details of different types of microbes.
- To make students aware about morphology, physiology, ecology and genetics of bacteria and various organisms.
- To enhance the practical skills of the students in various microbiological and biotechnological experimentation.
- To impart knowledge regarding use of microorganisms in the production of various value added products useful for mankind.
- To make students familiar with role of microbes in environment and how these tiny beings can help in maintaining the environment.
- The subject provides the students with an understanding of the manipulation of genes in order to produce genetically modified organisms with better properties.