



[Estd. 1945]

BHS Higher Education Society

# VIJAYA COLLEGE

Affiliated to Bengaluru City University

Accredited with B<sup>++</sup> Grade by the NAAC

Conferred "College with Potential for Excellence" by the UGC

RV Road, Basavanagudi

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## ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

<b>ACADEMIC YEAR/SEMESTER</b>	<b>2024-25</b>	<b>I Semester</b>
<b>DEPARTMENT</b>	<b>MICROBIOLOGY</b>	
<b>SUBJECT/PAPER</b>	<b>MBT 101: Basic Microbiology</b>	

### MONTH -1 (September)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
<b>1</b>	1	Orientation & Department activities (PPT)	KM
	2	Bridge course	MS
	3	Bridge course	KM
	4	Bridge course	MS
<b>2</b>	1	Bridge course	KM
	2	Bridge course (test)	MS/KM
	3	Microbes and origin of life.	MS
	4	Contributions of Indian Scientists to the field of Microbiology	MS
<b>3</b>	1	Historical development of Microbiology	KM
	2	Scope of microbiology as a modern and allied Health science.	MS
	3	Theory of Spontaneous generation and Biogenesis	KM
	4	Branches of Microbiology	MS
<b>4</b>	1	Antony Von Leeuwenhoek, Edward Jenner, Lazaro Spallanzani	KM
	2	Principles of Microscopy - resolving power, numerical aperture, focal length and magnification	MS
	3	Louis Pasteur, Joseph Lister, Robert Koch	KM
	4	Principles of photomicrography	MS



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<b>TEST 1</b>	
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<b>MONTH -2 (October)</b>			
<b>WEEK</b>	<b>DAY</b>	<b>PORTIONS PLANNED FOR 1 HOUR</b>	<b>FACULTY</b>
<b>1</b>	1	Alexander Flemming, Beijerinck, Winogradsky and Iwanovsky.	MS
	2	Simple and Compound Microscope	KM
	3	Nature of dyes	MS
	4	Dark field microscope	KM
<b>2</b>	1	Physical and chemical theories of staining	MS
	2	Fluorescence Microscope	KM
	3	Simple staining - negative staining	MS
	4	Electron Microscopy -TEM and SEM	KM
<b>3</b>	1	Differential staining - Grams and Acid fast staining	MS
	2	Comparison of the three domains of organisms: Bacteria, Archaea, and Eucarya	KM
	3	Structural staining - Cell wall, Endospore	MS
	4	A brief account of Archaea	KM
<b>4</b>	1	Structural staining - Flagella and Capsular staining	MS
	2	Size, shape, and arrangement of bacterial cells	KM



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<b>MONTH -2 (October)</b>			
<b>WEEK</b>	<b>DAY</b>	<b>PORTIONS PLANNED FOR 1 HOUR</b>	<b>FACULTY</b>
	3	Sterilization Techniques – Definition of terms	MS
	4	Bacterial cell wall, cell membrane, cytoplasm	KM
<b>TEST 2</b>			

<b>MONTH -3 (November)</b>			
<b>WEEK</b>	<b>DAY</b>	<b>PORTIONS PLANNED FOR 1 HOUR</b>	<b>FACULTY</b>
<b>1</b>	1	Evaluation of antimicrobial chemical agents -Tube dilution and agar plate techniques	MS
	2	Nucleoid, flagella, pili, fimbriae	KM
	3	Physical methods of control - Boiling, Pasteurization, Fractional sterilization -Tyndallization	MS
	4	Slime layer, capsule, spores and cysts	KM
<b>2</b>	1	Moist heat sterilization under pressure - Autoclave	MS
	2	Brief account of major characteristics used in bacterial classification	KM
	3	Dry heat sterilization - Incineration and hot air oven	MS



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<b>MONTH -3 (November)</b>			
<b>WEEK</b>	<b>DAY</b>	<b>PORTIONS PLANNED FOR 1 HOUR</b>	<b>FACULTY</b>
	4	Classification, Morphology, Cultivation, Reproduction, and significance of: Rickettsia	KM
<b>3</b>	1	Filtration & radiation	MS
	2	Classification, Morphology, Cultivation, Reproduction, and significance of: Chlamydia	KM
	3	Chemical methods of sterilization	MS
	4	Classification, Morphology, Cultivation, Reproduction, and significance of: Mycoplasma & Actinomycetes	KM
<b>4</b>	1	Revision	MS
	2	Class Test I	KM
	3	Class Test II	MS
	4	Discussion of University Question papers	KM



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ACADEMIC YEAR/SEMESTER		2024-25	III Semester
DEPARTMENT		MICROBIOLOGY	
SUBJECT/PAPER		MBL 103 – Microbial Diversity	
<b>MONTH -1 (September)</b>			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Syllabus Discussion	KM
	2	Basic concepts, Definition and levels of biodiversity	MS
	3	General characteristics, classification, Economic importance, Distribution and factors regulating distribution of Archaea	KM
	4	Biosystematics – classification	MS
2	1	Archaeal type study – Methanogens, <i>Thermus aquaticus</i>	KM
	2	General characteristics, classification, Economic importance, Distribution and factors regulating distribution of Bacteria	MS
	3	Numerical classification & Chemotaxonomy	KM
	4	Bergey's manual	MS
3	1	Bacterial type study – <i>E. coli</i> , <i>Bacillus</i> , <i>Staphylococcus</i>	KM
	2	Study & measures of Microbial diversity	MS
	3	Conservation & Economic Value of Microbial Diversity	KM
	4	General characteristics, classification, Economic importance, Distribution and factors regulating distribution of Cyanobacteria	MS
4	1	General characters, classification & economic importance of fungi.	KM
	2	Cyanobacteria type study – <i>Nostoc</i> , <i>Microcystis</i> , <i>Spirulina</i>	MS
	3	Salient features and reproduction - <i>Rhizopus</i>	KM



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	4	Actinomycetes	MS
<b>TEST 1</b>			

<b>MONTH -2 (October)</b>			
<b>WEEK</b>	<b>DAY</b>	<b>PORTIONS PLANNED FOR 1 HOUR</b>	<b>FACULTY</b>
<b>1</b>	1	Salient features and reproduction - Saccharomyces	KM
	2	Actinomycetes type study – <i>Streptomyces</i> , <i>Nocardia</i> , <i>Frankia</i>	MS
	3	Salient features and reproduction – Aspergillus, Fusarium	KM
	4	General characteristics, classification, Economic importance, Distribution and factors regulating distribution of Rickettsiae – <i>Rickettsia rickettsi</i>	MS
<b>2</b>	1	Salient features and reproduction - <i>Agaricus</i>	KM
	2	General characteristics, classification, Economic importance, Distribution and factors regulating distribution of Chlamydiae – <i>Chlamydia trachomatis</i>	MS
	3	General characters, classification & economic importance of algae	KM
	4	General characteristics, classification, Economic importance, Distribution and factors regulating distribution of Spirochetes – <i>Treponema pallidum</i>	MS
<b>3</b>	1	Lichens	KM
	2	General properties and structure of viruses	MS
	3	Algal type study – <i>Chlorella</i> , <i>Cosmarium</i>	KM
	4	Isolation, purification, assay of viruses	MS
<b>4</b>	1	Algal type study – Diatoms, <i>Gracilaria</i>	KM
	2	Viral taxonomy, Capsid symmetry	MS



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MONTH -2 (October)			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	3	General characters, classification & economic importance of protozoa	KM
	4	Animal viruses – HIV, Corona	MS
TEST 2			

MONTH -3 (November)			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Type study of protozoa – <i>Amoeba</i> , <i>Euglena</i> , <i>Paramoecium</i>	KM
	2	Animal viruses – Ortho & Paramyxoviruses	MS
	3	Type study of protozoa – <i>Trichomonas</i> , <i>Trypanosoma</i>	KM
	4	Animal viruses - Oncogenic viruses	MS
2	1	Plant viruses – TMV, ring spot virus	KM
	2	Microbial viruses – T4, T7	MS
	3	Viroids & Prions	KM
	4	Microbial viruses – Lambda	MS
3	1	Microbial viruses –Cyanophages	KM
	2	Microbial viruses –Mycophages	MS
	3	Revision	KM



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<b>MONTH -3 (November)</b>			
<b>WEEK</b>	<b>DAY</b>	<b>PORTIONS PLANNED FOR 1 HOUR</b>	<b>FACULTY</b>
	4	Revision	MS
<b>4</b>	1	Question Bank distribution	KM
	2	Discussion of University question papers	MS
	3	Class Test I	KM
	4	Class Test II	MS



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ACADEMIC YEAR/SEMESTER		2024-25	V Semester
DEPARTMENT		MICROBIOLOGY	
SUBJECT/PAPER		MBL 105-I MOLECULAR BIOLOGY	
<b>MONTH -1 (September)</b>			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Central dogma of molecular biology,	MS
	2	Introduction to transcription	KM
	3	Structure and types of DNA	MS
	4	Transcription bubble, Stages of transcription	KM
2	1	Structure and types of DNA	MS
	2	Bacterial RNA polymerase - structure	KM
	3	Structure and types of RNA	MS
	4	Bacterial RNA polymerase - mechanism	KM
3	1	Structure and types of RNA	MS
	2	Recognition of promoters and DNA melting	KM
	3	Gene, Genetic code	MS
	4	Transcription Initiation	KM
4	1	DNA Replication: Bacterial Cell cycle	MS
	2	Transcription Elongation & Termination	KM
	3	Types of DNA replication- Rolling. Circle and theta model	MS
	4	Abortive transcription, Transcription inhibitors	KM



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## TEST 1

### MONTH -2 (October)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Modes of DNA replication- Conservative, Semi-Conservative and dispersive.	MS
	2	Eukaryotic Transcription	KM
	3	Steps in Initiation of replication, Enzymes in DNA replication,	MS
	4	RNA polymerases in Eukaryotes- Types and Mechanism of RNA polymerase	KM
2	1	Replicon, OriC. Replication fork, replisome, Okazaki fragments, Termination of replication.	MS
	2	Promoters, Transcription factors, basal apparatus,	KM
	3	RNA splicing and Processing: mRNA capping, polyadenylation,	MS
	4	Enhancers & silencers	KM
3	1	Pre-mRNA splicing, snRNPs, spliceosome, types of splicing	MS
	2	Transcription Initiation, elongation, termination in eukaryotes	KM
	3	RNA maturation, Catalytic RNAs - auto splicing, ribozymes, RNA editing	MS
	4	Translation - structure tRNA, rRNA and ribosome	KM
4	1	Regulation of gene expression in eukaryotes co-activators and repressors, enhancers and insulators	MS
	2	Charging of tRNA, differences between initiator tRNA and elongator tRNA.	KM



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### MONTH -2 (October)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	3	DNase I, histone	MS
	4	Steps in translation- Initiation, elongation, and termination	KM
<b>TEST 2</b>			

### MONTH -3 (November)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
<b>1</b>	1	Regulation through modification of gene structure- DNA methylation.	MS
	2	Role of initiation factors in bacterial translation	KM
	3	Regulation through transcriptional activators	MS
	4	Formation of initiation complex, polypeptide, peptide bond formation, peptidyl transferase activity, translocation, termination	KM
<b>2</b>	1	Co-activators and repressors,	MS
	2	Differences between prokaryotic and eukaryotic translation. Regulation of translation. Post translational modifications of proteins	KM
	3	Enhancers and insulators	MS
	4	Protein maturation and secretion. Protein translocation and inhibitors.	KM



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## MONTH -3 (November)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
3	1	Regulatory mechanisms in bacteria- Positive and negative regulation	MS
	2	Operon concept, polycistronic mRNA. lac operon, trp operon	KM
	3	Catabolic repression and attenuation	MS
	4	Regulation of lytic & lysogenic life cycle in bacteriophage ( $\lambda$ phage). Control of lytic cycle by regulatory proteins	KM
4	1	Revision	MS
	2	Distribution of question bank	KM
	3	Discussion of university papers	MS
	4	Class Test	KM

<b>ACADEMIC YEAR/SEMESTER</b>	<b>2024-25</b>	<b>V Semester</b>	
<b>DEPARTMENT</b>	<b>MICROBIOLOGY</b>		
<b>SUBJECT/PAPER</b>	<b>MBL 105-II FOOD MICROBIOLOGY</b>		
<b>MONTH -1 (September)</b>			
WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Introduction to Dairy Microbiology, History of white revolution	MS



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	2	Introduction, Food as a substrate for microorganisms	KM
	3	Properties of milk	MS
	4	Intrinsic and extrinsic parameters affecting the growth of microbes	KM
<b>2</b>	1	Nutritional value of milk.	MS
	2	Types of microorganisms in food- Moulds, yeasts and bacteria.	KM
	3	Types of milk- dried, liquid, condensed.	MS
	4	Food borne infections and intoxications - Staphylococcal food poisoning, Botulism	KM
<b>3</b>	1	Normal and contaminant microflora in milk, pathogenic microbes in milk.	MS
	2	Salmonellosis, Brucellosis, Listeriosis	KM
	3	Starter culture and its types	MS
	4	General account of Mycotoxins and Phycotoxins.	KM
<b>4</b>	1	Sources of contamination of milk	MS
	2	Fermented vegetable- sauerkraut, pickles	KM
	3	Microbiological analysis of milk- Rapid platform tests	MS
	4	Fermented Meat- sausage. Fermented Beverages- kombucha. Sourdough	KM
<b>TEST 1</b>			

## MONTH -2 (October)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
<b>1</b>	1	Microbiological analysis of milk- Rapid platform tests	MS
	2	Principles of food spoilage, Sources of food contamination,	KM
	3	Microbiological analysis of milk- Rapid platform tests	MS



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## MONTH -2 (October)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
	4	Types of food spoilage	KM
<b>2</b>	1	Preservation of milk- Pasteurization.	MS
	2	Spoilage of Meat, Poultry, Fish and Sea foods	KM
	3	Preservation of milk- Dehydration, sterilization	MS
	4	Spoilage of cereals, fruits and vegetables	KM
<b>3</b>	1	Packing of milk and dairy products.	MS
	2	Spoilage of canned food	KM
	3	Fermentation in milk: Lactic acid, gassy fermentation, souring, ropiness	MS
	4	Principles of food Preservation.	KM
<b>4</b>	1	Cheese- Types and production (Cheddar),	MS
	2	Methods of preservation- Physical (temperature,)	KM
	3	Tofu, Yoghurt, Acidophilus milk	MS
	4	Methods of preservation- Physical (Drying, irradiation)	KM
<b>TEST 2</b>			



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## MONTH -3 (November)

WEEK	DAY	PORTIONS PLANNED FOR 1 HOUR	FACULTY
1	1	Prebiotics, Probiotics.	MS
	2	Methods of preservation - chemical (Class I)	KM
	3	Quality testing of food- Rapid microbiological methods. Examination of fecal contamination	MS
	4	Methods of preservation – chemical (Class II)	KM
2	1	Food sanitation and control - Good Hygiene practices, GLP, GMP	MS
	2	Bio preservation, Food additives	KM
	3	HACCP and Food control agencies and their regulation.	MS
	4	Canning	KM
3	1	Bacterial indicator organisms in food contamination	MS
	2	Food Packaging- Types of packaging materials, properties and benefits.	KM
	3	Food Safety –risk and hazards	MS
	4	Food SafetyLaws and Regulations- BIS, FSSAI, Codex Alimentarius.	KM
4	1	Revsion	MS
	2	Distribution of question bank	KM
	3	Discussion of university papers	MS
	4	Class Test	KM