

PG.GOV'T COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH

Teaching Plan (1st Term)

Class: BSc Microbiology E Semester I Paper code: MIC 101 Fundamentals of Microbiology I & MIC 102 Microbial Physiology- Metabolism I

Subject: Microbiology

Session: 2015 -2016

S. No	Date From	Date Upto	Topics to be covered
Week 1 B.Sc	20 th july, 2015	25 th july, 2015	History, Development, Scope and Applications of microbiology.
Week 2	27 th july, 2015	1 st Aug, 2015	Introduction to rDNA technology.
Week 3	3 rd Aug, 2015	8 th Aug, 2015	Genetic cloning and gene cloning in microorganism.
Week 4	10 th Aug, 2015	15 th Aug, 2015	Restriction enzymes.
Week 5	17 th Aug, 2015	22 nd Aug, 2015	Vectors and Plasmids.
Week 6	24 th Aug, 2015	29 th Aug, 2014	Introduction to metabolism.
Week 7	31 st Aug, 2015	5 th Sept, 2015	Respiration and fermentation.
Week 8	7 th Sept, 2015	12 th Sept, 2015	-----House Examination-----
Week 9	14 th Sept, 2015	19 th Sept, 2015	Glycolysis. Pentose Phosphate Pathway.
Week 10	21 st Sept, 2015	3 rd Oct, 2015	The Entner Doudoroff pathway.

Week 11	5 th Oct., 2015	10 th Oct., 2015	Tricarboxylic acid cycle.
Week 12	12 th Oct., 2015	21 st Oct., 2015	Glyoxylate cycle.

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Teaching Plan (Ist Term)

Class: B.Sc. Microbiology E final year

Paper code: MIC -301 : pathogenic microbiology

MIC -302 : Food & Industrial Microbiology

Subject: Microbiology

Session: 2015 -2016

S. No	Date From	Date Upto	Topics to be covered
Week 1 B.Sc	20 th july, 2015	25 th july, 2015	Introduction to <i>Streptococcus, pneumococcus, Neisseria</i> their operative pathogenic mechanism, laboratory diagnosis, prevention and control of disease.
Week 2	27 th july, 2015	1 st Aug, 2015	Introduction to <i>Corynebacterium, Bacillus, Clostridium</i> their operative pathogenic mechanism, laboratory diagnosis, prevention and control of disease.
Week 3	3 rd Aug, 2015	8 th Aug, 2015	Introduction <i>enterobacteriaceae(proteus, shigella, salmonella), Vibrio</i> their operative pathogenic mechanism, laboratory diagnosis, prevention and control of disease.
Week 4	10 th Aug, 2015	15 th Aug, 2015	Introduction to <i>Yersinia, Hemophilus, & Mycobacterium</i> their operative pathogenic mechanism, laboratory diagnosis, prevention and control of disease.
Week 5	17 th Aug, 2015	22 nd Aug, 2015	Introduction to human mycotic infection ie. Cryptococcosis, Dermatophytosis, Blastomycosis
Week 6	24 th Aug, 2015	29 th Aug, 2014	Introduction to human mycotic infection ie. opportunistic mycosis Candidiasis & Aspergillosis.
Week 7	31 st Aug, 2015	5 th Sept, 2015	Food AS substrate for Microorganisms, Nutritive value of food stuffs, effect of hydrogen ion conc., moisture requirement on food., food borne disease botulism.
Week 8	7 th Sept, 2015	12 th Sept, 2015	-----House Examination-----
Week 9	14 th Sept, 2015	19 th Sept, 2015	Food borne disease staphylococcal intoxication, salmonellosis, shigellosis, qualitative and quantitative analysis of food components (protein, fats,)
Week 10	21 st Sept, 2015	3 rd Oct, 2015	qualitative and quantitative analysis of food components (lipids, carbohydrates,) Microbiological examination of food products include dairy products, food poisoning caused by bacteria and fungi.

Week 11	5 th Oct., 2015	10 th Oct., 2015	Contamination,preservation and spoilage in various foods ie. Cereals&cereal products ,vegetable&fruits ,flour,bread,pasta,macroni,sugars&sugar product
Week 12	12 th Oct., 2015	21 st Oct., 2015	Morphology,pathogenesis,life cycle,lab.diagnosis,prevention and contrl pf viral disease Rabies,polio,small pox herpes,measles

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Class: BSc Microbiology E Semester I Paper code: MIC 101 Fundamentals of Microbiology I & MIC 102 Microbial Physiology- Metabolism I

Subject: Microbiology

Session: 2015 -2016

S. No	Date From	Date Upto	Topics to be covered
Week 1 B.Sc	20 th july, 2015	25 th july, 2015	Methods of Microbiology.
Week 2	27 th july, 2015	1 st Aug, 2015	Isolation of Pure Cultures.
Week 3	3 rd Aug, 2015	8 th Aug, 2015	Practice of Sterilization.
Week 4	10 th Aug, 2015	15 th Aug, 2015	Conjugation.
Week 5	17 th Aug, 2015	22 nd Aug, 2015	Growth Curve and Transformation.
Week 6	24 th Aug, 2015	29 th Aug, 2014	Nature of Microbial World.
Week 7	31 st Aug, 2015	5 th Sept, 2015	Morphology and fine structure of Bacteria, Fungi, Actinomycetes and Algae.
Week 8	7 th Sept, 2015	12 th Sept, 2015	Transduction and Operon system.
Week 9	14 th Sept, 2015	19 th Sept, 2015	Organization of Cell Wall, Cell Membrane, Flagella and Capsules in Bacteria.
Week 10	21 st Sept, 2015	3 rd Oct, 2015	Microbial association with Vascular plants, Nitrogen Fixation.

Week 11	5 th Oct., 2015	10 th Oct., 2015	Microbial Nutrition and Culture Media.
Week 12	12 th Oct., 2015	21 st Oct., 2015	Enzymology and Biopesticides.

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Teaching Plan (1st Term)

Class: BSc Microbiology E Semester III
Microbiology

Paper code: MIC 201 Introduction to Medical

Subject: Microbiology

Session: 2015 -2016

S. No	Date From	Date Upto	Topics to be covered
Week 1 B.Sc	20 th july, 2015	25 th july, 2015	Nomenclature of Bacteria.
Week 2	27 th july, 2015	1 st Aug, 2015	Classification of Bacteria.
Week 3	3 rd Aug, 2015	8 th Aug, 2015	Criteria of Classification.
Week 4	10 th Aug, 2015	15 th Aug, 2015	Microbial Adherence.
Week 5	17 th Aug, 2015	22 nd Aug, 2015	Passive Penetration of Microbes in Body
Week 6	24 th Aug, 2015	29 th Aug, 2014	Active Penetration of Microbes in Body.
Week 7	31 st Aug, 2015	5 th Sept, 2015	Microbial Production of Enzymes in Body.
Week 8	7 th Sept, 2015	12 th Sept, 2015	Brief Introduction to terminology of Infectious Diseases.
Week 9	14 th Sept, 2015	19 th Sept, 2015	Virulence and Mode of Transmission.
Week 10	21 st Sept, 2015	3 rd Oct, 2015	Frequency of Disease.

Week 11	5 th Oct., 2015	10 th Oct., 2015	Recognition of Infectious Disease.
Week 12	12 th Oct., 2015	21 st Oct., 2015	Disease cycle.