

Karnataka State Open University, Mukthagangotri, Mysore-06.
M.SC. IN MICROBIOLOGY FIRST SEMESTER, 2019-20 (January Cycle)
Time Table for Online Classes to be held from 13-4-2020 to 18-4-2020

Date/Time	10.30 AM to 12.30 PM	3.30 PM to 5.30 PM
13-04-2020 Monday	The discovery of microorganisms and the question of spontaneous generation; experiments conducted to prove / disprove it	Early contributors to the discipline of microbiology (I): Leeuwenhoek, Joseph Lister, Paul Ehrlich, Edward Jenner, Luis Pasteur, Robert Koch, Beijerinck, Winogradsky, Twort, Herelle, H.C.Gram.
	Zoom class Meeting ID: 200 367 648 Password: 026623	Zoom class Meeting ID: 300 173 880 Password: 016806
14-04-2020 Tuesday	Later contributors to the discipline of microbiology (I) Alexander Fleming, A. Selman Waksman, Salvador E.Luria, Joshua Lederberg, David A. Hopwood,	The impact of advent of the microscope on biology as a whole. The cell theory, Contributions of Robert Hook, Robert Brown, Mathias Schleiden, Theodar Schwann, Rudolf Virchow
	Zoom class Meeting ID: 625 277 252 Password: 025582	Zoom class Meeting ID: 896 447 936 Password: 011673
15-04-2020 Wednesday	Identification and Classification of Microorganisms. Linnaeus's system of nomenclature in biology. E.H. Haekel's(1866) Protista;. R.H.Whittakar's (1969) five kingdom system.	The contributions of D.H. Bergey and his international scientist-associates; Bergey's Manual of Determinative Bacteriology - 8 volumes based on bacterial taxonomy (classification) (1923-74).
	Zoom class Meeting ID: 486 348 945 Password: 001910	Zoom class Meeting ID: 677 352 229 Password: 019905
16-04-2020 Thursday	Morphology and ultra-structure of Bacteria (Prokaryotes): Size, shape and arrangement of bacterial cells, Structure and function of bacterial cell wall, capsule, cell membrane, flagella and pili. Bacterial nuclear martial and, ribosomes,	Bacterial growth and physiology: Nutritional types of bacteria; Autotrophs and heterotrophs, Chemotrophs, chemo-organotrophs, chemo-lithotrophs, Phototrophs, photo-organotrophs photo-lithotrophs.
	Zoom class Meeting ID: 404 623 470 Password: 022127	Zoom class Meeting ID: 956 487 588 Password: 000875
17-04-2020 Friday	Influence of oxygen: aerobic, anaerobic and micro-aerophilic growth of bacteria. Design of culture media for autotrophic and heterotrophic bacteria and cultivation conditions. Bacterial growth curve, generation time, growth kinetics.	Synchronous growth; batch and continuous culture of bacteria. Measurement of bacterial growth (biomass, turbidity, dry weight and protein content). Physical factors, Chemical factors and Biological factors affecting bacterial growth.
	Zoom class Meeting ID: 249 403 369 Password: 024793	Zoom class Meeting ID: 766 099 249 Password: 022180
18-04-2020 Saturday	Microscopy: Specimen preparation and basic principles, simple and Gram's, staining, Micrometry. Biological stains and their importance in microbiology:	Methods of media preparation: types of culture media. Pure culture techniques. Cultivation of microorganisms and growth measurement. Maintenance and Preservation of Microorganisms.
	Zoom class Meeting ID: 136 442 334 Password: 017206	Zoom class Meeting ID: 290 801 914 Password: 000004

All classes will be handled by Dr. Niranjana Raj S., Chairman, Department of Studies in Microbiology, KSOU.
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