

S.V.R.K. GOVT. DEGREE COLLEGE (M), NIDADAVOLE

ANNUAL CURRICULAR PLAN – LECTURER-WISE 2020-21

Department : BOTANY

Class : I B.Sc. (CBZ)

Year : I

Paper : 1

Semester: 1

Name of the Lecturer : Dr. P.S.S.SRAVANTHI.

S. No.	Month & Week	Hours available	Syllabus topic	Additional input / value addition	Curricular Activity				Co-curricular Activity				Remarks
					Activity	Hours allotted	Whether conducted	If not, alternate	Activity	Hours allotted	Whether conducted	If not, alternate date	
1	2	3	4	5	6	7	8	9	10	11	13	13	13
1	October 4 th Week	4 2	Origin of life and Viruses: Origin of life, concept of primary Abiogenesis; Miller and Urey experiment. Five kingdom classification of R.H. Whittaker Discovery of microorganisms, Pasteur experiments, germ theory of diseases		Teaching Practical	4 2			-				
2	November 1 st week	4 2	Shape and symmetry of viruses; structure of TMV and Gemini virus; multiplication of TMV; A brief account of Prions and Viroids. A general account on symptoms of plant diseases caused by Viruses.		Teaching Practical	4 2							
3	November 2 nd week	4 2	Transmission of plant viruses and their control. Significance of viruses in vaccine production, bio-pesticides and as cloning vectors.		Teaching Practical	3 2			Assignment	1			
4	November 3 rd week	4 2	Special groups of Bacteria and Eubacteria: Brief account of Archaeobacteria, Actinomycetes and Cyanobacteria. Cell structure and nutrition of Eubacteria.		Teaching Practical	3 2			Assignment	1			
5	November 4 th week	4 2	Reproduction- Asexual (Binary fission and endospores) and bacterial recombination (Conjugation, Transformation, Transduction).		Teaching Practical	3 2			Quiz	1			

6	December 1 st week	4 2	Economic importance of Bacteria with reference to their role in Agriculture and industry (fermentation and medicine). A general account on symptoms of plant diseases caused by Bacteria; Citrus canker.		Teaching Practical	3 2			Assignment	1			
7	December 2 nd week	4 2	Fungi & Lichens: General characteristics of fungi and Ainsworth classification (upto classes). Structure, reproduction and life history of <i>Rhizopus</i> (Zygomycota)		Teaching Practical	3 2			Group discussion	1			
8	December 3 rd week	4 2	Structure, reproduction and life history of <i>Puccinia</i> (Basidiomycota). Economic uses of fungi in food industry, pharmacy and agriculture. A general account on symptoms of plant diseases caused by Fungi;		Teaching Practical	3 2			Assignment	1			
9	December 4 th week	4 2	I MID EXAMINATIONS										
10	January 1 st week	4 2	Blast of Rice. Lichens- structure and reproduction; ecological and economic importance. Algae: General characteristics of Algae (pigments, flagella and reserve food material); Fritsch classification (upto classes).		Teaching Practical	3 2			Assignment	1			
11	January 3 rd week	4 2	Thallus organization and life cycles in Algae. Occurrence, structure, reproduction and life cycle of <i>Spirogyra</i> (Chlorophyceae), <i>Polysiphonia</i> (Rhodophyceae). Economic importance of Algae.		Teaching Practical	3 2			Assignment	1			
12	January 4 th week	4 2	Bryophytes : General characteristics of Bryophytes; classification upto classes. Occurrence, morphology, anatomy, reproduction (developmental details are not needed) and life cycle of <i>Marchantia</i> (Hepaticopsida)		Teaching Practical	3 2			Student seminar	1			
13	February 1 st week	4 2	II MID EXAMINATIONS										
14	February 2 nd week	4 2	Occurrence, morphology, anatomy, reproduction (developmental details are not needed) and life cycle of <i>Funaria</i> (Bryopsida). General account on evolution of sporophytes in Bryophyta.		Teaching Practical	3 2			Assignment	1			
15	February 3 rd week	4 2	Revision		Teaching Practical	4 2							

Signature of the Lecturer

Signature of the Lecturer in charge

Signature of the Principal