

ACADEMIC PLAN FOR THE DEPARTMENT OF MICROBIOLOGY

SESSION:2018-19 (ACADEMIC YEAR)

Year	PAPER	UNIT	TEACHER		No. of class hours allotted per week (as per class routine)		Total no. of class hours required in the session (Approx.)		Duration (in month)	Remark (if any)
			Theory	Practical/Tutorial	Theory	Practical/Tutorial	Theory	Practical/Tutorial		
PART-II 2nd Year (UG)	Paper III Group A (Theory): Cellular and Molecular Biology	Unit I: 1. DNA Replication	Mr. Subhankar Barua	-----	1	-----	70	-----	8	
		Unit I: 2. Transcription in prokaryotes	Dr. Gargi Saha Kesh		1					
		Unit I: 3. Mechanism of translation in prokaryotes	Dr. Arun Roy		1					
		Unit II: 1. Eukaryotic cell biology	Dr. Saswati Gayen		2					
	Paper III Group B (Theory): Metabolism and Bioenergetics	Unit I: 1. Enzymes	Dr. Arpita Das	-----	2	-----	70	-----		
		Unit I: 2. Amino acid metabolism	Dr. Sampa Debnath		3					
		Unit II 1. Carbohydrate metabolism								
		Unit II:2. Purine and Pyrimidine metabolism								
	Unit II: 3. Lipid metabolism									
	Paper IV Group A (Theory): Environmental and Food Microbiology	Unit I: 1. Air Microbiology	Miss Sahana Ghosh	-----	1	-----	80	-----	8	
		Unit I: 2. Water Microbiology	Dr. Prasenjit Das		1					
		Unit I: 3. Food Microbiology	Dr. Shilajit Barua		1					
		Unit I: 4. Preservation of food								
		Unit I: 5. Microbiologically Fermented food								
		Unit II: 1. Soil Microbiology	Dr. Saswati Gayen		2					
	Unit II: 2. Biogeochemical cycles									
	Paper IV Group B (Practical)	Unit I: 1. Enumeration of microbes	-----	Dr. Prasenjit Das	-----	4	-----	60		
		Unit I: 2. Growth curve								
Unit I: 3. Assay of antibiotics										
Unit I: 4. MIC										
Unit II: 1. Water microbiology										
Unit II: 2. Milk microbiology										
Unit II: 3. Phenol coefficient										