

EDUCATIONAL MULTIMEDIA RESEARCH CENTRE : MYSORE

Project: NME_ICT (Phase I / II): PHASE -II

Subject : B.A/B.Sc., VOCATIONAL STUDIES

Programme name-B.A./B.Com/B.Sc (Ist /IInd /IIIrd yr): B.Sc., (I

Course name/Paper : COURSE- INDUSTRIAL MICROBIOLOGY

Subject Coordinator/ Course Coordinator :

Sl.no	E-content Module Title	Hard disk/flash drive. No.	Corresponding video programme title	P.D. no.	Subject expert	Producer	Year of production
1	Concepts and scope of industrial microbiology		Concepts and scope of industrial microbiology		Mahadev		
2	Modern era of industrial Fermentation Technology		Modern era of industrial fermentation Technology		Mahadev		
3	Industrial Production Penicillin		Industrial Production Penicillin		Hemanth		
4	Industrial Production of food additives		Industrial Production of food additives		Hemanth		
5	Types and operations of Bioreactors		Types and operations of Bioreactors		Mahadev		
6	Biological Fuel Generation Part - 2		Biological Fuel Generation Part 2		Hemanth		
7	Industrial production of Proteases		Industrial production of Proteases		Hemanth		
8	Commercial uses of amino acids		Commercial uses of amino acids		Hemanth		
9	Strains for Amino acids production		Strains for Amino acids production		Hemanth		
10	Enzyme Technology		Enzyme Technology		Hemanth		
11	Sterilization of Culture Media and Gases		Sterilization of Culture Media and Gases		Hemanth		
12	Fermentation Media		Fermentation Media		Krupalini		
13	Fermentation Technology		Fermentation Technology				
14	Solid substrate Fermentation		Solid substrate Fermentation				
15	Biological Fuel Generation Part - 1		Biological Fuel Generation Part 1				
16	Bioreactors: Design and Operation Part - 1		Bioreactors: Design and Operation 1				
17	Bioreactors: Design and Operation Part - 2		Bioreactors: Design and Operation 2				
18	Technology for Microbial Cell Maintenance		Technology for Microbial Cell Maintenance				
19	Downstream Processing Part - 1		Downstream Processing 1				
20	Downstream Processing Part - 2		Downstream Processing 2				

21	Cultivation of Spirulina		Cultivation of Spirulina				
22	Wine preparation		Wine preparation				
23	Industrial production of ethyl alcohol		Industrial production of ethanol				
24	Industrial production of Lactic acid		Industrial production of Lactic acid				
25	Product recovery of L Glutamic acid and L Lysine		Product recovery of L Glutamic acid and L Lysine				
26	Industrial production of Citric acid		Industrial production of Citric acid				
27	Spirulina		Spirulina				
28	Commercial production of vitamin B12 and Riboflavin		Commercial production of vitamin B12 and Riboflavin				
29	Deterioration of materials by microbers		Deterioration of materials by microbers				
30	Industrial production of Bacterial Amylase		Industrial production of Bacterial Amylase				
31	Physico chemical standards used in bioreactors		Physico chemical standards used in Bioreactors				
32	Screening and isolation of Industrially important microbes		Screening and isolation of Industrially important microbes				
33	Starch improvement by mutation of genes transfer process		Starch improvement by mutation of genes transfer process				
34	Intellectual property rights		Intellectual property rights				
35	Industrial production of Fungal amylase		Industrial production of Fungal amylase				

1st year)

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