**WEEKLY LESSON PLAN**

**B. Sc. Biotech 6 SEMESTER**

**Paper XIII. Microbial Biotechnology, SESSION 2023-24 EVEN**

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| **S.No** | **Week** | **Topic** |
| 1 | 1/1/24-8/1/24 | Microbial Products: a brief discussion about  production of certain industrial products such as  – Alcohol |
| 2 | 9/1/24-15/1/24 | , Microbial Products: a brief discussion about  production of certain industrial products such as  Alcoholic beverage (Beer) |
| 3 | 16/1/24-22/1/24 | Organic acids ( citric acid), Antibiotics (penicillin) |
| 4 | 23/1/24-29/1/24 | Amino acids like glutamic acid etc |
| 5 | 30/1/24-5/2/24 | Vitamin (B12), enzymes production (protease) |
| 6 | 6/2/24-12/2/24 | Enzymes production (alpha-amylase )Brief account of Steroid Biotransformation |
| 7 | 13/2/24-19/2/24 | Steroid Biotransformation Roles and Microbial Foods. Single Cell Proteins. |
| 8 | 20/2/24-27/2/24 | Sewage waste water treatment technique and  Plants. |
| 9 | 28/2/24-4/3/24 | Biodegradation of xenobiotic compounds.  Microbial polysaccharides and polyesters |
| 10 | 5/3/24-11/3/24 | Production of xanthan gum and  Polyhydroxyalkanoides (PHA). Bioconversions. |
| 11 | 12/3/24-18/3/24 | Bio mining and bioleaching. and unit test |
| 12 | 19/1/24-22/3/24 | Biogas production. Microbial technology in  agriculture- Bio insecticides, bio herbicides |
| 13 | 23/3/24-31/3/24 | Holi vacations |
| 14 | 1/4/24-8/4/24 | Biocontrol agents for disease control, advantages  Over chemical methods. Bio fertilizers |
| 15 | 9/4/24-15/4/24 | Genetically engineered microbes: concept and  technique; |
| 16 | 16/4/24-22/4/24 | Use of GEM in Agriculture, Industry and Medicine. |
| 17 | 23/4/24-30/4/24 | FOR REVISION |

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