

(Lesson Plan)
MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Odd Semester V)
Session–(2019-20)

Name of the Teacher: Dr. Sandeep Kaur
Department: Department of Food Science
Class: B.Sc. MFT (III)
Subject: Environmental Microbiology (BMF-5001)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	25.07.2019	05.08.2019	Introduction to Soil Microbiology (Soil composition, Rhizosphere, soil enrichment techniques, soil enzymes)	Lecture, Online Sources
2.	06.08.2019	30.08.2019	<ul style="list-style-type: none"> • Biological interactions (positive, negative and neutral); special emphasis on VAM, lichens, Nitrogen fixation • Isolation of Soil microbes and their characterization 	Lecture method, slides, Animation videos
3.	01.09.2019	15.09.2019	Introduction to Bio-fertilizers, Bio-pesticides (Different classes and types), advantages of using them over chemical fertilizers	Lecture method, Online videos, slides
4.	15.09.2019	28.09.2019	Bio-geochemical cycles (C, N, S and P) , role of microbes in cycling of nutrients	Lecture, Cycles ,Online Videos
5.	28.09.2019	30.09.2019	Introduction to terms : Bio-sorption, Bio-remediation, Bio-degradation, Bio-deterioration.	Lecture, PPT
6.	01.10.2019	05.10.2019	Microbial deterioration of Wood, Textiles, Paper	Lecture, PPT
7.	06.10.2019	15.10.2019	Biogas production pathway, Methane gas production and methanogenesis and their advantages.	Lecture, Online Videos PPT
8.	16.10.2019	22.10.2019	Hydrogen gas production and its applications. Bio-degradation of toxic chemicals and xenobiotics	Lecture, Online Videos PPT
9.	23.10.2019	31.10.2019	Solid waste management (types of solid waste and different methods)	Lecture, Online Videos PPT
10.	01.11.2019	15.11.2019	BOD, COD, sewage water treatment steps (primary, secondary, tertiary)	Lecture, PPT, Online Videos
11.	16.11.2019	20.11.2019	Role of biofilms and indicator microbes for potability	Lecture, PPT
12.	20.11.2019	30.11.2019	Class tests and Discussions	Discussion

*Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.
 Other Methods adopted by the teacher – Please write the specific teaching method

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Monthly Teaching Plans (Odd Semester V)
Session–(2019-20)

Name of the Teacher: Dr. Gurpreet Kaur

Department: Department of Food Science

Class: B.Sc. MFT (III)

Subject: Food Analysis and Quality Control (BMF 5002)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	25.07.2019	05.08.2019	Introduction to Food Quality Control, Sampling techniques and preparation of food samples	Lecture,
2.	06.08.2019	17.08.2019	Proximate analysis of Food-Moisture, Carbohydrates, Proteins, Fats	Lecture
3.	18.08.2019	31.08.2019	Proximate analysis of Food-. Crude Fiber, Ash content, Minerals, Vitamins. Physico-chemical properties – (TS,TSS,Acidity,solubility, sedimentation)	Lecture
4.	01.09.2019	23.09.2019	Sensory assessment of food quality – Appearance of food,. Flavor of food, Texture of food – Subjective & Objective Analysis	Lecture method, online videos
5.	24.09.2019	30.09.2019	Sensory Tests – Difference, Rating & Sensitivity tests, Types of panels, Testing area & schedule.	Lecture, PPT
6.	01.10.2019	10.10.2019	Adulterants and Preservatives	Lecture, PPT
7.	11.10.2019	20.10.2019	Food quality management – TQM, Good manufacturing practices, seven principles of HACCP & codex, Quality control methods of raw materials, manufacturing process & finished products	Lecture, PPT
8.	21.10.2019	31.10.2019	Food Safety – Role of agencies & legal aspects, National & International food laws, Nutritional labeling requirements of foods	Lecture, PPT
9.	01.11.2019	15.11.2019	Quality control of Milk & milk products, Oils & Fats, Cereal grains & flours, Fruits & vegetable products, Canned foods, Egg & egg products, Meat & Meat products	Lecture, PPT
10.	16.11.2019	20.11.2019	Class tests and Discussion	Lecture
11.	21.11.2019	30.11.2019	Revision and Discussion	Lecture

***Any of these** – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.
 Other Methods adopted by the teacher – Please write the specific teaching method