STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI
COURSE PLAN June - November 2024

Department : BIOTECHNOLOGY
Name/s of the Faculty : DR. ARUNA SHARMILI S
Course Title : IMMUNOTECHNOLOGY
Course Code : 23BY/PC/IM34
Shift : II

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	describe and discuss the study of immunology	K1, K2
CO2	apply immune-specific cells, structures, and concepts in the field of immunology	K3
CO3	categorize features unique to the immune system	K4
CO4	critically evaluate and estimate the effectiveness of the immune system	K5
CO5	begin to integrate concepts from immunity into real-world applications	K6

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	**Concepts of Immune System** 1.1 Introduction, Concepts of Innate and Adaptive Immunity 1.2 Humoral and Cell-Mediated Immunity	 K1-K3 K1-K4	 4 1	 1-2 1-3	**Participatory Learning Methods:** Power Point Presentation	MCQ
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	**Concepts of Immune System** 1.2 Humoral and Cell-Mediated Immunity 1.3 Cells of the Immune System 1.4 Tissues and Organs of the Immune System	 K1-K4 K1-K5 K1-K6	 1 2 2	 1-3 1- 4 1-5	**Participatory Learning Methods:** Power Point Presentation	MCQ
July 5 – 12, 2024 (Day Order 1 - 6)	1 2	**Concepts of Immune System** Tissues and Organs of the Immune System **Immune cells and Molecules** 2.1 B Cell: Development, Activation, Differentiation, Memory Generation	K1-K6 K1-K4	2 3	1-5 1-3	**Participatory Learning Methods:** Power Point Presentation and videos	Group discussion

July 15 – 23, 2024 (Day Order 1 - 6)	2	**Immune cells and Molecules** 2.2 T Cell: Development, Activation, Helper Subset Differentiation, T Cell Memory 2.3 Antigens, Epitopes, Haptens, Adjuvants, Pattern Recognition Receptors	 K1-K4 K2-K5	 3 2	 1-3 1-4	**Participatory Learning Methods:** Power Point Presentation and videos	Group discussion
July 24 – 31, 2024 (Day Order 1 - 6)	2	**Immune cells and Molecules** 2.3 Antigens, Epitopes, Haptens, Adjuvants, Pattern Recognition Receptors 2.4 Immunoglobulin	 K2-K5 K2-K6	 2 3	 1-4 1-5	**Participatory Learning Methods:** Power Point Presentation	Quiz Seminar Presentation
Aug 1 – 5, 2024 (Day Order 1 - 3)	2	**Immune cells and Molecules** 2.4 Multigene Organization of Immunoglobulin Genes, Basis of Antibody Diversity	 K2-K6	 2	 1-5	**Participatory Learning Methods:** Power Point Presentation	Short Test
Aug 6 – 10, 2024	**C.A. Test - I**						

Aug 12 – 14, 2024 (Day Order 4-6)	2 3	**Immune cells and Molecules** 2.4 Multigene Organization of Immunoglobulin Genes, Basis of Antibody Diversity **Immune Responses** 3.1 Cytokines: Properties, Types, Receptors	 K1-K4 K1-K4	 1 2	 1-3 1-3	**Participatory Learning Methods:** Power Point Presentation	MCQ
Aug 16 – 23, 2024 (Day Order 1-6)	3	**Immune Responses** 3.2 Major Histocompatibility Complex - General Organization, Structure, Antigen Processing and Presenting Pathways 3.3 Complement System-Components- Activation Pathways	 K2-K4 K3-K6	 3 2	 1-3 2-5	**Participatory Learning Methods:** Power Point Presentation	Short test
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3 4	**Immune Responses** 3.3 Complement System-Functions 3.4 Hypersensitivity Reactions - Type I, II, III, IV	 K3-K6 K3-K6	 1 4	 2-5 2-5	**Participatory Learning Methods:** Power Point Presentation	Short test

Sep 4 – 11, 2024 (Day Order 1-6)	4	**Immunopathology** 4.1 Autoimmunity, Transplantation Immunology 4.2 Tumor Immunology	 K1-K4 K2-K4	 4 1	 1-3 1-3	**Participatory Learning Methods:** Power Point Presentation	Seminar Presentation
Sep 12 - 20, 2024 (Day Order 1-6)	4	**Immunopathology** 4.2 Tumor Immunology 4.3 Immunodeficiency Diseases 4.4 Infectious Diseases and Vaccines	 K2-K4 K2-K5 K2-K6	 1 2 2	 1-3 1-4 1-5	**Participatory Learning Methods:** Power Point Presentation	Seminar Presentation
Sep 23 - 26, 2024 (Day Order 1-4)	4 5	**Immunopathology** 4.4 Infectious Diseases and Vaccines **Experimental systems and methods** 5.1 Antibody Generation: Polyclonal Antibodies	 K2-K6 K1-K4	 2 1	 1-5 1-3	**Participatory Learning Methods:** Power Point Presentation	Seminar Presentation III Component Assignment
Sep 27 – Oct 3, 2024	**C.A. Test - II**						

Oct 4 – 5, 2024 (Day 5 & 6)	5	**Experimental systems and methods** 5.1 Antibody Generation: Monoclonal Antibodies 5.2 Cross-Reactivity, Precipitation Reactions Agglutination Reactions, RIA, ELISA, Western Blotting	 K1-K4 K2-K6	 1 1	 1-3 1-5	**Experiential Learning Methods:** Experiments, Videos	MCQ
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	**Experimental systems and methods** 5.2 Cross-Reactivity, Precipitation Reactions Agglutination Reactions, RIA, ELISA, Western Blotting 5.3 Immunocytochemistry and Immunohistochemistry, Immunofluorescence	 K2-K6 K3-K6	 3 2	 1-5 2-5	**Experiential Learning Methods:** Experiments, Videos	MCQ
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	**Experimental systems and methods** 5.3 Flow Cytometry 5.4 Animal Experimental Systems	 K3-K6 K3-K6	 1 4	 2-5 2-5	**Experiential Learning Methods:** Experiments, Videos	MCQ
Oct 23 - 24, 2024 (Day Order 1 to 2)	**REVISION**						

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI
COURSE PLAN June - November 2024

Department **:** Biotechnology
Name/s of the Faculty **:** Dr. J. Anbumalarmathi and Dr. S. Jeyashree
Course Title **: BIOPROCESS AND FERMENTATION TECHNOLOGY**
Course Code **:** 23BY/PC/BF34
Shift **:** II

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall and relate the fundamentals of bioprocess and fermentation technology	K1, K2
CO2	show the methods in bioprocess and fermentation technology	K3
CO3	analyse the different steps in upstream and downstream process of fermentation technology	K4
CO4	evaluate the principles of fermentation technology to retrieve the bioproducts	K5
CO5	design the industrially important techniques for fermentation technology	K6

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	**Fundamentals of Bioprocess** Isolation, Screening **Bioreactors**	K1-K3	2	1-2	**Participatory Learning Methods:** PowerPoint presentation	Test (short answers)
	2	2.1 Basic Configuration and Ancillaries of Fermenter	K1-K4	3	1-3	**Experiential Learning Method:** Experiment	Quiz
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	**Fundamentals of Bioprocess** Maintenance of Industrially Important Microbes	K1-K3	1	1-2	**Participatory Learning Methods:** PowerPoint presentation	Test (short answers)
	1	1.2 Media Design and Inoculum Development	K1-K3	1	1-2	**Participatory Learning Methods:** PowerPoint presentation	Test (short answers)
	2	2.2 Types of Bioreactors I - Stirred tank, Air Lift bioreactor	K2-K6	3	1-5	**Experiential Learning Method:** Model building	Test (short answers)
July 5 – 12, 2024 (Day Order 1 - 6)	1	1.2 Media Design and Inoculum Development	K1-K3	2	1-2	**Experiential Learning Method:** Experiments	Test (Short answers)
	2	2.2 Photobioreactor 2.3 Types of Bioreactors II - Packed Bed bioreactor	K2-K6	3	1-5	**Experiential Learning Method:** Model building	Test (detailed answers)

July 15 – 23, 2024 (Day Order 1 - 6)	1	1.3 Sterilization Methods - Batch Sterilization, Continuous Sterilization	K2-K6	2	1-5	**Experiential Learning Method:** Experiments	Quiz
	2	2.3 Fluidized Bed Bioreactor 2.4 Enzyme Immobilization Methods	K2-K6 K3-K6	3	1-5 2-5	**Experiential Learning Method:** Model building	Quiz
July 24 – 31, 2024 (Day Order 1 - 6)	1	1.4 Sterilization Methods - Filter Sterilization	K2-K6	1	1-5	**Experiential Learning Method:** Experiments	Test (short answers)
		1.5 Types of Fermentation - Solid State, Submerged, Batch,	K3-K6	1	2-5	**Participatory Learning Method:** Presentation	Test (short answers)
	2	2.4 Immobilization of Microbial Enzymes - Principles and Applications	K3-K6	3	2-5	**Participatory Learning Method:** Group discussion	Test (short answers)
Aug 1 – 5, 2024 (Day Order 1 - 3)	1	1.5 Types of Fermentation - Batch, Continuous and Fed Batch	K3-K6	1	2-5	**Participatory Learning Method:** Presentation	Discussion
	4	**Mass Transfer** 4.1 Mass Transfer - Diffusion Theory	K1-K4	1	1-3	**Participatory Learning Method:** Presentation	Quiz

Aug 6 – 10, 2024	**C.A. Test - I**						
Aug 12 – 14, 2024 (Day Order 4-6)	3 4	**Downstream Processing** Extraction of Enzymes 4.1 Film Theory	K1-K4 K1-K4	1 2	1-3 1-3	**Participatory Learning Method:** Presentation Lecture: Powerpoint presentation	Quiz Group discussion
Aug 16 – 23, 2024 (Day Order 1-6)	3 4	**Downstream Processing** Removal of Insolubles - Filtration, Centrifugation, Sedimentation, Flocculation 4.2 Types of Mass Transfer I - Liquid-Solid	K1-K4 K2-K6	2 3	1-3 1-5	**Participatory Learning Method:** Presentation Lecture: Powerpoint presentation	Group discussion Quiz
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3 4	3.2 Cell Disruption – Physical and Chemical Methods 4.2 Types of Mass Transfer I - Liquid-Liquid 4.3 Types of Mass Transfer II - Gas-Liquid	K2-K4 K2-K6	2 3	1-3 1-5	**Participatory Learning Method:** Presentation Lecture: Powerpoint presentation	Test (short answers) Test (short answers)
Sep 4 – 11, 2024 (Day Order 1-6)	3 4	3.2 Cell Disruption – Physical and Chemical Methods 4.3 Types of Mass Transfer II - Gas-Liquid 4.4 Microbial Growth Kinetics - Batch	K2-K4 K2-K6 K4-K6	2 3	1-3 1-5 3-5	**Participatory Learning Method:** Presentation **Problem Solving Method:** Case study	Test (short answers) Test (short answers)

Sep 12 - 20, 2024 (Day Order 1-6)	3 5	3.3 Separation Technique - Membrane Separation, Ultrafiltration **Bioproducts from Fermentation Technology** 5.1 Production, Harvest, Recovery and Uses - Enzymes, Vitamins	K3-K5 K1-K6	2 3	2-4 1-5	**Problem Solving Method:** Case study Lecture: Powerpoint presentation	Group Analysis **Third component:** Scrap book- Production, Harvest, Recovery and Uses - Enzymes, Vitamins
Sep 23 - 26, 2024 (Day Order 1-4)	3 5	3.3 Separation Technique - Solvent Extraction 5.2 Production, Harvest, Recovery and Uses - Aminoacids	K3-K5 K1-K6	1 2	2-4 1-5	**Problem Solving Method:** Case study Lecture: Powerpoint presentation	Group Analysis Quiz
Sep 27 – Oct 3, 2024	**C.A. Test – II**						
Oct 4 – 5, 2024 (Day 5 & 6)	3 5	3.3 Separation Technique - Solvent Extraction 5.2 Production, Harvest, Recovery and Uses - Organic Solvents	K3-K5 K1-K6	1 1	2-4 1-5	**Problem Solving Method:** Case study Lecture: Powerpoint presentation	Group Analysis Open book test

Oct 7 - 15, 2024 (Day Order 1 to 6)	3 5	3.4 Purification and Drying Techniques - Affinity and Gel Permeation Chromatography - Crystallization 5.3 Production, Harvest, Recovery and Uses - Baker's Yeast, Milk Products - Probiotics	K3-K6 K2-K6	2 3	2-5 1-5	**Experiential Learning Method**: Industry visit (Field trip) **Experiential Learning Method**: Industry visit (Field trip)	Test (Short answers) Quiz
Oct 16 - 22, 2024 (Day Order 1 to 6)	3 5	3.4 Purification and Drying Techniques - Drying - Spray Dryer and Freeze Dryer 5.4 Protein, Beverages - Wine	K3-K6 K2-K6	2 3	2-5 1-5	**Experiential Learning Method**: Industry visit (Field trip) **Experiential Learning Method**: Learning by doing	Test (Short answers) Test (short answers)
Oct 23 - 24, 2024 (Day Order 1 to 2)	**REVISION**						

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI
COURSE PLAN June - November 2024

Department : Biotechnology
Name of the Faculty : Dr.K. Veena Gayathri
Course Title : Environmental Biotechnology
Course Code : 23BY/PC/EB34
Shift : II

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	relate the fundamentals of the environment, ecological factors	K1, K2
CO2	illustrate global environmental issues and treatment methods	K3
CO3	identify the causes of industrial pollution and manage solid wastes	K4
CO4	compare diverse strategies involved in environmental management	K5
CO5	integrate different methods in the removal of the pollutants and address concerns about transformation in the environment	K6

Week	Unit No.	Content	Cognitive Level	Teaching Hours	Cos	Teaching Learning Methodology	Assessment Methods
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	**Principles of Ecology** 1.1 The Environment-Physical Environment-Biotic and Abiotic Interactions, Ecosystem-types	K1-K3	2	1-2	Presentation	Assignments
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	1.1 The Environment-Physical Environment-Biotic and Abiotic Interactions, Ecosystem-types	K1-K3	1	1-2	Presentation	Questionnaire
		1.2 Habitat and Niche, Resource Partitioning; Character Displacement	K1, K2, K6	3	1,2, 5	**Participatory Learning Method**: Survey on Environment	Tests
		1.3 Community Ecology-Nature of Communities; Community Structure and Attributes Population Ecology- Characteristics of a Population	K1, K3, K6	1	1, 2, 5	**Participatory Learning Method**: Presentation / Web search	Tests

July 5 – 12, 2024 (Day Order 1 - 6)	2	1.3 Community Ecology- Nature of Communities; Community Structure and Attributes Population Ecology- Characteristics of a Population	K1-K3, K6	1	1-3, 5	**Participatory Learning Method**: Presentation / Model building	Tests
		1.4 Concept of meta Population- Models of meta-population **Environmental Pollution and Management**	K1-K3, K6	2	1-5	**Participatory Learning Method**: Presentation/ Case Study	Group Discussion
		2.1 Water, Soil and Air Pollution Its Sources Effects & Control, Global Environmental Problems-management	K1-K6	2	1-5	**Participatory Learning Method**: Presentation/ Case Study	Group Discussion

July 15 – 23, 2024 (Day Order 1 - 6)	2	2.1 Water, Soil and Air Pollution Its Sources Effects & Control, Global Environmental Problems-management 2.2Principles of Conservation, conservation strategies: In-situ and ex-situ conservation; Bio-indicators	K1-K6 K3, K5-K6	2 3	1-5 2-3,5	**Participatory Learning Method**: Presentation/ Case Study **Participatory Learning Method**: Presentation/ Case Study	Tests Tests
July 24 – 31, 2024 (Day Order 1 - 6)	2	2.2 Principles of Conservation, conservation strategies: In-situ and ex-situ conservation; Bio-indicators 2.3 Remote Sensing and GIS -Applications in Ecological Mapping and Environmental Hazard Predictions	K3, K5-K6 K3-K6	1 4	2-3,5 3-5	**Experiential Learning Method:** Presentation/ Online Mapping tools **Experiential Learning Method:** Practical Demonstration/ Field Trips	Tests

Aug 1 – 5, 2024 (Day Order 1 - 3)	3	2.4 Sewage and wastewater Treatment Systems: Primary, Secondary and Tertiary Treatments; Biological Treatment methods **Industrial Waste Management** 3.1 Industrial Waste Management- Dairy	K1-K6 K3-K6	2 1	1-5 2-5	Seminar/ **Participatory Learning Method**: Web demonstration	Assignment
Aug 6 – 10, 2024	**C.A. Test – I**						
Aug 12 – 14, 2024 (Day Order 4-6)	3	**Industrial Waste Management** 3.1 Industrial Waste Management- Dairy, Paper and Pulp, Textile, and Leather Industry	K3-K6	2	2-5	Presentation	Quiz /Scrap Book

Aug 16 – 23, 2024 (Day Order 1-6)	3	3.2 Biomedical and Pharmaceutical Wastes 3.3 E-waste- Radioactive and Nuclear Power Waste Management	K3-K4, K6 K3-K4, K6	3 2	3-5 3-5	**Participatory Learning Method**: Collections and Reuse strategies **Participatory Learning Method**: Presentation/ Practical Demonstration Presentation/ **Participatory Learning Method**: Demonstration of Tools Used for Waste Management	Assignment

Aug 27 – Sep 3, 2024 (Day Order 1-6)	4	3.3 E-waste- Radioactive and Nuclear Power Waste Management 3.4 Solid Waste: Sources and Management (Composting, Vermiculture and Methane Production) **Recombinant DNA Technology Application in the Environment** 4.1 Molecular Biology Tools for Environmental Management, rDNA Technology in Waste Treatment	K3-K4, K6 K3-K4, K6 K3-K6	1 3 1	2,3,5 2,3, 5 2,4,5	Presentation **Participatory Learning Method**: Group Discussions	Test
Sep 4 – 11, 2024 (Day Order 1-6)	4	4.1 Molecular Biology Tools for Environmental Management, rDNA Technology in Waste Treatment 4.2 Genetically Modified Organisms in Waste Management	K3-K6 K3, K5-K6	4 1	2, 4, 5 2, 4, 5	**Participatory Learning Method**: Seminar	Seminar

Sep 12 - 20, 2024 (Day Order 1-6)	4	4.2 Genetically Modified Organisms in Waste Management 4.3 Metagenomics, Nanoscience in Environmental Management	K3, K5-K6 K3, K5-K6	2 3	2,4,5 2,4,5	Seminar Presentation	Seminar
Sep 23 - 26, 2024 (Day Order 1-4)	5	4.4 Biosensors Development to Monitor Pollution **Biotechnological Applications in the Environment** 5.1 Bioremediation of Petroleum Hydrocarbons	K3-K6 K3-K6	3 1	2-5 2-5	Presentation	Test
Sep 27 – Oct 3, 2024	**C.A. Test – II**						
Oct 4 – 5, 2024 (Day 5 & 6)	5	5.1 Bioremediation of Petroleum Hydrocarbons	K3-K6	1	2-5	Presentation **Participatory Learning Method**: Model making	Test
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	5.1 Bioremediation of Petroleum Hydrocarbons 5.2 Biodegradation of Xenobiotics and Pesticides	K3-K6 K3-K6	2 3	2-5 2-5	Presentation	Test

Oct 16 - 22, 2024 (Day Order 1 to 6)	5	5.3 Microbes in Bioleaching Process- Metal Recovery by Leaching Process, Microbial Fuel Cell 5.4 Phyto-remediation – Rhizo-filtration, Phyto-extraction, Phyto-stimulation Phyto-stabilization and Phyto-transformation	K3-K6 K3-K6	3 2	2-5 2-5	Presentation	Test
Oct 23 - 24, 2024 (Day Order 1 to 2)	**REVISION**						

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI
COURSE PLAN June - November 2024

Department : BIOTECHNOLOGY
Name/s of the Faculty : DR. S. JAYASHREE
Course Title : HUMAN DISEASES AND MANAGEMENT
Course Code : 23BY/PE/HD23
Shift : II

COURSE OUTCOMES (COs)

COs	Description	CL

CO1	describe the basic concepts of diseases	K1
CO2	explain the mechanisms of diseases	K2
CO3	predict diagnosis and treatment of diseases	K3
CO4	outline the management of various diseases	K4

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	**Bacterial and Viral Diseases** 1.1 Bacterial Diseases I - Typhoid	K1-K4	3	1-4	**Participatory Learning Methods:** Power Point Presentation	MCQ
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	1.2 Bacterial Diseases II - Tuberculosis	K1-K4	3	1-4	**Experiential Learning Methods:** Project Designs	MCQ
July 5 – 12, 2024 (Day Order 1 - 6)	1	1.3 Viral Diseases - AIDS	K1-K4	3	1-4	**Problem Solving Methods:** Case Studies	Group discussion
July 15 – 23, 2024 (Day Order 1 - 6)	2	**Parasitic and Fungal Diseases** 2.1 Parasitic Diseases I - Malaria	K1-K4	3	1-4	**Participatory Learning Methods:** Power Point Presentation and videos	Group discussion
July 24 – 31, 2024 (Day Order 1 - 6)	2	2.2 Parasitic Diseases II - Amoebiasis	K1-K4	3	1-4	**Participatory Learning Methods:** Power Point Presentation	Quiz
Aug 1 – 5, 2024 (Day Order 1 - 3)	2	2.3 Fungal Diseases – Candidiasis	K1-K4	1	1-4	**Participatory Learning Methods:** Power Point Presentation	Short Test
Aug 6 – 10, 2024	**C.A. Test - I**						
Aug 12 – 14, 2024 (Day Order 4-6)	3	**Pathology I** 3.1 Parkinson's Disease	K1-K4	2	1-4	**Participatory Learning Methods:** Power Point Presentation	MCQ
Aug 16 – 23, 2024 (Day Order 1-6)	3	3.2 Atherosclerosis	K1-K4	3	1-4	**Participatory Learning Methods:** Power Point Presentation	Short test
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	3.3 Bronchial Asthma	K1-K4	3	1-4	**Problem Solving Methods:** Case Studies	Short test

Sep 4 – 11, 2024 (Day Order 1-6)	4	**Pathology -II** 4.1 Peptic Ulcer	K1-K4	3	1-4	**Experiential Learning** **Methods:** Project Designs	Group Discussion
Sep 12 - 20, 2024 (Day Order 1-6)	4	4.2 Urinary Tract Infection	K1-K4	3	1-4	**Problem Solving** **Methods:** Case Studies	Group Discussion
Sep 23 - 26, 2024 (Day Order 1-4)	4	4.3 Cancer of Breast	K1-K4	2	1-4	**Participatory Learning** **Methods:** Power Point Presentation	**Third Component** Assignment Scrap book
Sep 27 – Oct 3, 2024	**C.A. Test - II**						
Oct 4 – 5, 2024 (Day 5 & 6)	5	**Immunopathology** 5.1 Allergy	K1-K4	1	1-4	**Problem Solving** **Methods:** Case Studies	Short test
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	5.2 Auto-immune disorders I – Type I Diabetes	K1-K4	3	1-4	**Participatory Learning** **Methods:** Power Point Presentation	Group Discussion
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	5.3 Auto-immune disorders II – Rheumatoid Arthritis	K1-K4	3	1-4	**Participatory Learning** **Methods:** Power Point Presentation	Group Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)	**REVISION**						