



# SWAMI VIVEKANAND MAHAVIDYALAYA UDGIR

ACADEMIC YEAR 2020-21

Weekly Teaching Progress Report

Department –Life Sciences

Teacher Name: - Ms. Rutuja B. Digraskar.



Sr. No.	Class	Subject/ Paper Name	Week & Month	Syllabus Completed/ Covered as per Plan	Syllabus Not Completed/ Not Covered as per Plan
1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	2 Nov. – 5 Nov. 2020	<b>UNIT I: The Beginning of Microbiology:</b> Controversy over spontaneous generation Development of pure culture methods Bacteria: Purple and green bacteria Cyan bacteria, Homoacetogenic bacteria	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	2 Nov. – 5 Nov. 2020	<b>UNIT I: The Beginning of Microbiology:</b> Controversy over spontaneous generation Development of pure culture methods Bacteria: Purple and green bacteria Cyan bacteria, Homoacetogenic bacteria	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	2 Nov. – 5 Nov. 2020	<b>Unit-I Organs and Cells of Immune System</b> Primary lymphoid organs - structure and function Lymphatic system Secondary lymphoid organs MALT	Completed

**Remarks:**

- 1) Syllabus Completed / Covered as per plan. Yes
- 2) Syllabus Not Completed / Covered as per plan. Reason -
- 3) Syllabus going ahead as per plan, Reason -
- 4) Remarks of Principal:- -

Signature of Teacher

Head of Department

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	18 – 19 Nov. 2020	Budding and append aged bacteria, Spirilla Spirochetes, Gliding and sheathed bacteria	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	18 – 19 Nov. 2020	LHT system of classification Morphology and Ultra structure of Viruses.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	18 – 19 Nov. 2020	Cutaneous associated lymphoid tissue Langerhans cells	Completed

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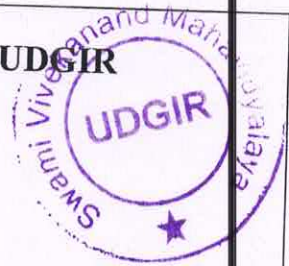
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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	23 Nov. – 26 Nov. 2020	Pseudomonades; Lactic and prop ionic acid bacteria Endospore forming rods and cocci Mycobacterium, Rickettsia's Chlamydia's and Mycoplasmas	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	23 Nov. – 26 Nov. 2020	Cultivation of Viruses Embryonated egg and Laboratory animals Detection of viruses in the host Measurement of infectious units.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	23 Nov. – 26 Nov. 2020	Lymphoid cells - B- lymphocytes T- lymphocytes Null cells, $\gamma$ $\delta$ T cells Microglial cells	Completed

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	1 Dec. – 3 Dec. 2020	Archaea: Archaea as earliest life forms, Halophiles, Methanogens UNIT II: Methods in Microbiology Theory and practice of sterilization	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	1 Dec. – 3 Dec. 2020	Measurement of virus particles One step growth cycle, Assay of viruses Infectivity assay.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	1 Dec. – 3 Dec. 2020	Haematopoiesis Mast cell <b>Unit-II Immunogens and Immunoglobulins</b> Types of antigens	Completed

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	7 Dec. - 10 Dec. 2020	Principles of microbial Nutrition Construction of Culture Media Microbial Evolution Systematics and Taxonomy Evolution.  <b>Unit II: Multiplication of Viruses</b> Introduction, Architecture of cell surfaces Interaction of viruses with cell receptors Uptake of macromolecules by cells Mechanism of virus entry into cells.	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	7 Dec. - 10 Dec. 2020	Exogenous, Endogenous, Autologous, Xenogenic Properties of antigens Haptens, Superantigens and Adjuvants Macrophage activation	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	7 Dec. - 10 Dec. 2020		Completed

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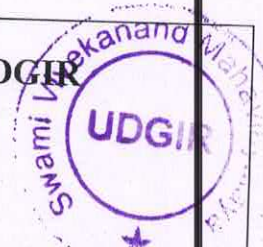
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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	14 Dec. 17 Dec 2020	Primitive organisms New approaches to bacterial taxonomy classification Ribotyping; Ribosomal RNA sequencing Characteristics of primary domains.	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	14 Dec. 17 Dec 2020	Transport of viral genome into the cell nucleus Genomic replication of Viruses (DNA/RNA) mRNA production by animal viruses Mechanism of RNA synthesis.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	14 Dec. 17 Dec 2020	Epitopes: A.A.sequence /structure Immunoglobulins: Classes, Structure, Isotypic, Allotypic, Idiotypic determinants Idiotype network.	Completed

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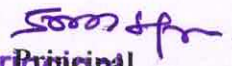
Sr. No.	Class	Subject/ Paper Name	Week & Month	Syllabus Completed/ Covered as per Plan	Syllabus Not Completed/Not Covered as per Plan
1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	21 Dec. - 24 Dec. 2020	Taxonomy Nomenclature and Bergey's Manual <b>UNIT III: Microbial Growth</b> The definition of growth, Growth curve Measurement of Growth and growth yields Synchronous growth: Continuous culture.	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	21 Dec. - 24 Dec. 2020	Transcription mechanism Translation of viral protein Assembly, Exit & Maturation Multiplication of bacteriophages.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	21 Dec. - 24 Dec. 2020	Antibody production theories Organization and Expression of Immunoglobulin genes Genetic model for Ig structure Germ line and somatic variation models Dryer and Bennett two gene models	Completed

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	28 Dec. – 31 Dec. 2020	Growth as affected by Environmental factors Growth as affected alkalinity <b>UNIT IV: General virology</b> Discovery of viruses Nomenclature, Classification, Structure of viruses.	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	28 Dec. – 31 Dec. 2020	<b>Unit III: Viral Pathogenesis</b> Host and virus factors involved Patterns of infection Pathogenesis of animal viruse Adenovirus, Herpes virus.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	28 Dec. – 31 Dec. 2020	K chain genes,λ chain genes Heavy chain genes, VH gene segments Gene rearrangement in VH region In heavy chain.	Completed

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	4 Jan. – 8 Jan 2021	Morphology and ultra structure Virus receptors & entry into cell Virus related agents Overview of viral replication Assembly, Maturation & release from cell Diagnostic Virology; Cultivation of viruses.	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	4 Jan. – 8 Jan 2021	Hepatitis virus, Picorna virus Poxivirus and Orthomyxovirus Pathogenesis of plant viruses (TMV) Insect viruses (NPV) Host cell transformation by viruses.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	4 Jan. – 8 Jan 2021	Variables region DNA rearrangement, Generation of antibody diversity Regulation of Ig gene transcription <b>Unit-IV MHC Complexes and Clinical Immunology</b> MHC class-I MHC class-II - Structure of molecules.	Completed

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	11 Jan. – 14 Jan. 2021	Virus cultivation in animal cells Transgenic system Virus infectivity Assay (chemical methods) Virus infectivity Assay (physical methods).	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	11 Jan. – 14 Jan. 2021	Oncogenesis of DNA and RNA viruses <b>Unit IV: Prevention and Control of Viruses</b> Introduction, Viral vaccines Preparation of viral vaccines Preparation of viral vaccines.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	11 Jan. – 14 Jan. 2021	Gene organization Genetic polymorphism of molecule Peptide interaction with molecule MHC and immune responsiveness	Completed

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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	18 Jan. – 21 Jan. 2021	PCR based diagnosis of viruses. PCR based diagnosis of viruses. <b>UNIT V: Viruses</b> Life cycle of – Bacterial viruses (Lambda) Life cycle of – Bacterial viruses (M13).	Completed	
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	18 Jan. – 21 Jan. 2021	Preparation of viral vaccines Preparation of viral vaccines New vaccine technology New vaccine technology.	Completed	
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	18 Jan. – 21 Jan. 2021	MHC and susceptibility to infectious diseases Minor MHA - structure, role and genetics HLA system Antigen processing and presentation.	Completed	

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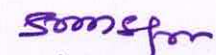
Sr. No.	Class	Subject/ Paper Name	Week & Month	Syllabus Covered as per Plan	Completed/ Not Completed/Not Covered as per Plan
1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	25 Jan. – 28 Jan. 2021	Plant viruses (TMV) Plant viruses (CMV) Animal viruses (Herpes).	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	25 Jan. – 28 Jan. 2021	Antiviral drugs Virus evolution and Emergence Revision Unit I.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	25 Jan. – 28 Jan. 2021	Hypersensitivity Immunology of Tumors Immunodeficiency diseases	Completed

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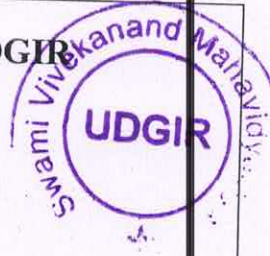
  
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1	M.Sc. Biotechnology FY Semester:-I	BT-II: Microbiology and Virology	8 Feb. – 11 Feb. 2021	Animal viruses (Retro) REVISION REVISION REVISION.	Completed
2	M.Sc. Microbiology FY Semester:-I	MB-102: Advances in Virology	8 Feb. – 10 Feb. 2021	Revision Unit II Revision Unit III Revision Unit IV.	Completed
3	M.Sc. Microbiology SY Semester:-III	MB-301: Molecular Immunology	8 Feb. – 10 Feb. 2021	Autoimmune diseases Immunomodulation Immunological tolerance.	Completed

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1.	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	1 April – 8 April 2021	UNIT I - Basic principles & usage of Instruments ,General Instruments and Distillation plant, Centrifuge machine, Analytical Balance, Hotplate, Magnetic Stirrer, Water Bath Automatic dispenser and diluters, Deionizer.	Completed
2.	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	1 April – 8 April 2021	UNIT I: Basic Concepts in Immune System, Basic concepts Cells and organs of immune system Humoral and cell mediated Hematopoiesis and differentiation Antigens- General properties.	Completed
3.	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	1 April – 8 April 2021	Introduction to Industrial Bioprocess Engineering, Definition of bioprocess engineering, Bioprocess engineer Biotechnology & bioprocess engineering	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	1 April – 8 April 2021	Batch growth Unit-I Microbial Fermentations Metabolic pathways and metabolic control, Industrial production of citric acid ,lactic acid, Enzymes - alpha amylase, lipase, xylase	Completed

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1.	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	13 April – 16 April 2021	Autoclave, Incubator, Hot air oven Laminar Air flow, Colony counter Muffle furnace, Refrigerator, Inoculators.	Completed
2.	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	12 April – 15 April 2021	Types, epitope, hapten, adjuvant Antibodies- Types, biological functions	Completed
3.	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	12 April – 15 April 2021	factors affecting growth kinetics Monod's equation, Continuous culture.	Completed
4.	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	12 April – 15 April 2021	Pectinases, proteases Acetone- butanol	Completed

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1.	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	20 April – 23 April 2021	McIntosh and Flides anaerobic jar. <b>UNIT II - Microscopy</b> Study of compound microscope Components of microscope	Completed
2.	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	19 April – 22 April 2021	Biology of Superantigen BCR & TCR (structure & properties) MHC Antigen processing.	Completed
3.	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	19 April – 22 April 2021	Chemostat and Turbitostat Mixed culture in nature Industrial utilization of mixed culture.	Completed
4.	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	19 April – 22 April 2021	Lysine and Glutamic acid Alcoholic beverages Distilled beverages Beer, Wine	Completed

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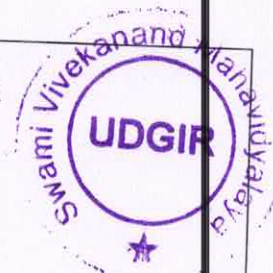
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1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	27 April – 30 April 2021	Dark ground illumination Care of microscope and common difficulties. Study of phase contrast, interference	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	26 April – 29 April 2021	Activation of B-cells Maturation Activation of T-cells <b>UNIT II: Complement system</b> Complement activation pathways Biological consequences	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	26 April – 29 April 2021	<b>Unit II: Bioreactors</b> Design of basic bioreactor Bioreactor configuration Design features, Individual parts, Baffles, Impellers Foam separators, Spargers, Culture vessel.	Completed
4.	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	26 April – 29 April 2021	Microbial production of therapeutic compounds Microbial production of therapeutic compounds $\beta$ -lactum Minoglycosides Ansamycines	Completed

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2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	3 May – 6 May 2021	Hypersensitivity: Components Mechanisms of degranulation Mediators Consequences.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	3 May – 6 May 2021	Cooling and heating devices Probes for on-line monitoring Computer control of fermentation process Ideal batch reactor.	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	3 May – 6 May 2021	Peptide antibiotics Biotransformation of steroids Vit.B-12 Riboflavin fermentation	Completed

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SWAMI VIVEKANAND MAHAVIDYALAYA UDGIR  
ACADEMIC YEAR 2020-21



Weekly Teaching Progress Report

Department –Life Sciences

Teacher Name: -Ms. Rutuja B. Digraskar .

Sr. No.	Class	Subject/ Paper Name	Week & Month	Syllabus Completed/ Covered as per Plan	Syllabus Not Completed/ Not Covered as per Plan
1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	11 May – 14 May 2021	UNIT III - Introduction to Medical Microbiology Discovery of microorganisms Contribution of Scientists- Robert Koch, Louis Pasteur.	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	10 May – 13 May 2021	Transfusion reactions Localized reactions Generalized reactions Delayed type hypersensitivity.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	10 May – 13 May 2021	Packed bed reactor bubble column reactor Fluidized bed bioreactor Trickle bed reactor Unit III: Mass Transfer and Sterilization Transport phenomena in bioprocess system:	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	10 May – 13 May 2021	Unit- III Modern trends in microbial production Production of bioplastics (PHB,PHA) Bioinsecticides Biopolymer- dextran Alginates, xanthan, pullulan	Completed

Remarks:

- 1) Syllabus Completed / Covered as per plan. \_\_\_\_\_
- 2) Syllabus Not Completed / Covered as per plan. Reason yes \_\_\_\_\_
- 3) Syllabus going ahead as per plan, Reason \_\_\_\_\_
- 4) Remarks of Principal:- \_\_\_\_\_

Signature of Teacher

Head of Department

Principal  
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Mahavidyalaya Udgir



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1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	18 May – 21 May 2021	Antonie Van Leeuwenhoek, Bordet, Paul Ehrlich Alexander Flemming, ElieMetchnikoff,Karl Landsteiner Needham, Tyndall Janssen, Joseph Lister.	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	17 May – 20 May 2021	<b>UNIT III: Autoimmunity</b> Organ specific autoimmune diseases Hashimoto's thyroiditis Autoimmune anemia Insulin dependent diabetes mellitus.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	17 May – 20 May 2021	Gas liquid mass transfer in cellular systems Basic mass transfer concept Rate of metabolic oxygen utilization Determination on oxygen transfer rates	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	17 May – 20 May 2021	Biofertilizer Nitrogen fixer Azotobacter Phosphate solubilising microorganisms) Single cell protein production of biological.	Completed

Remarks:

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- 4) Remarks of Principal:- \_\_\_\_\_

  
Signature of Teacher

  
Head of Department

  
Principal  
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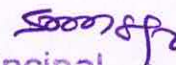
Sr.No.	Class	Subject/ Paper Name	Week & Month	Syllabus Completed/ Covered as per Plan	Syllabus Not Completed/Not Covered as per Plan
1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	25 May – 28 May 2021	Scope & relevance and safety measurers Medical microbiology in various infectious diseases <b>UNIT IV - Sterilization and Disinfection</b> Various physical methods of sterilization.	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	24 May – 27 May 2021	Systemic autoimmune diseases SLE, Multiple sclerosis Rheumatoid arthritis.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	24 May – 27 May 2021	Determination of K <sub>1a</sub> Heat transfer Aeration/Agitation.	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	24 May – 27 May 2021	Weapons with reference to anthrax. Useful features of biofuels The substrate digester.	Completed

Remarks:

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- 3) Syllabus going ahead as per plan, Reason -
- 4) Remarks of Principal:- -

  
Signature of Teacher

  
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1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	1 June – 4 June 2021	Autoclave control and sterilization indicators Chemical disinfectants - phenol and its compounds Alcohol, halogen, heavy metals.	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	31 May – 3 June 2021	Treatment of autoimmune Transplantation Immunology Types of graft, Specificity Memory of rejection response.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	31 May – 3 June 2021	Upstream processes and Down Stream Process Upstream processes Inoculum development Formulation of production media.	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	31 May – 3 June 2021	Biogas production Bioethanol from sugar Molasses, starch Cellulosic materials	Completed

Remarks:

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- 3) Syllabus going ahead as per plan, Reason \_\_\_\_\_
- 4) Remarks of Principal:- \_\_\_\_\_

*Rutuja*  
Signature of Teacher

*Digraskar*  
Head of Department

*Sonapur*  
Principal  
Swami Vivekanand  
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ACADEMIC YEAR 2020-21



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Sr.No.	Class	Subject/ Paper Name	Week & Month	Syllabus Completed/ Covered as per Plan	Syllabus Not Completed/Not Covered as per Plan
1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	8 June – 11 June 2021	Quaternary ammonium compounds Use and abuse of disinfectants Chemotherapeutic agents.	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	7 June – 10 June 2021	Mechanisms involved in graft rejection Clinical manifestations Immunity to infectious diseases Tumor Immunology.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	7 June – 10 June 2021	Air supply, Media, Maintenance of stock culture Scale up of the process Solid state fermentation process Downstream processes.	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	7 June – 10 June 2021	Ethanol recovery Microbial production of hydrogen gas Biodiesel from hydrocarbons Immobilization techniques, IPR and Patents Some industrial techniques	Completed

Remarks:

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1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	15 June – 18 June 2021	Future development of chemo - therapy Revision Unit I Revision Unit II	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	14 June – 17 June 2021	<b>UNIT IV - Immunodeficiency</b> Primary immunodeficiency Secondary immunodeficiency Immunity to Infectious Immunological reactions.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	14 June – 17 June 2021	Recovery of particulates filtration Centrifugation, Sedimentation, Emerging technologies for cell recovery Extraction, Solvent extraction.	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	14 June – 17 June 2021	Enzyme immobilization Application and advantages Immobilization in pharmaceutical Food and fine chemical industries	Completed

Remarks:

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- 3) Syllabus going ahead as per plan, Reason —
- 4) Remarks of Principal:- —

  
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Sr. No.	Class	Subject/ Paper Name	Week & Month	Syllabus Completed/ Covered as per Plan	Syllabus Not Completed/ Not Covered as per Plan
1	B. Voc. MLT FY Sem-II	BMLT 203 Microbiology- II	22 June – 24 June 2021	Revision Unit III Revision Unit IV	Completed
2	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	21 June – 24 June 2021	Precipitation. Agglutination Radioimmunoassay, ELISA Western Blotting, Flow cytometry Immunoelectron microscopy, RIA.	Completed
3	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	21 June – 24 June 2021	Aqueous two phase system, sorption, Precipitation Reverse osmosis, Ultra filtration. Recent trends in Product recovery Commercial enzymes.	Completed
4	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	21 June – 24 June 2021	Intellectual Property Rights (IPR) Patents, Trademarks, copyrights, Secrets, Patenting of biological materials International cooperation Obligations with patent	Completed

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1	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	28 June – 30 June 2021	UNIT V: Vaccine technology Identifications of B and T epitopes in situ characterization of cells in tissues Hybridoma technology.	Completed
2	M.Sc. Microbiology FY Sem-II	MB-203: Bioprocess Engineering	28 June 2021	Intracellular foreign proteins.	Completed
3	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	28 June – 30 June 2021	Applications, implication of patenting Hybridoma technology Patenting of higher plants and animals.	Completed

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1	M.Sc. Biotechnology FY Sem-II	BT-VI: Immuno- Technology	5 July – 7 July 2021	Monoclonal antibody production Catalytic antibodies, FACS.	Completed	
2	M.Sc. Microbiology SY Sem-IV	MB 401 Fermentation Technology	5 July – 7 July 2021	Transgenic organisms and isolated genes Patenting of genes and DNA sequences Plant breeders rights and farmers rights	Completed	

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