SONOPANT DANDEKAR SHIKSHAN MANDALI'S

SONOPANT DANDEKAR ARTS, V. S. APTE COMMERCE, M. H. MEHTA SCIENCE COLLEGE, PALGHAR

Individual Teacher Curricular Planning & Implementation Part B –

Science

2020-2021

PERSONAL INFORMATION

1. Name of the Professor	:	DR. Harshad S.Vanmali
2. Address	:	*Sonopant Dandekar Arts, V.S. Apte* Commerce and M.H. Mehta Science College, Palghar
3. Department	:	Zoology
4. Designation	:	Assistant Professor
5. Educational Qualification	:	M.Sc. Ph.D
6. Date of Birth	:	11th October 1982
7. Appointment Date	:	6th August 2007
8. Telephone (Resi) Mobile No.	:	8983497282
9. Blood Group	:	B Rh Positive
10. Emergency Contact Address	:	At - 70 Sulochana Sadan, Diwanman Road, Manikpur, Naka, Vasai (West),Tal- Vasai, Tal / Dist. Palghar 401404
11. PAN Card No. / Aadhar Card No.		: AJFPV4240B
12. Other Information		: Alternate contact No.8983497282

TIME TABLE

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7.30	M.Sc.I Practical	T.Y.		F.Y. Practical		
8.20			M.Sc. II		M.Sc.II	T.Y.
9.25						M.Sc.II
10.15			T.Y. Practical	M.Sc. II Practical		
11.05	S.Y. Practical	M.Sc. I			S.Y. Practical	F.Y.
11.55						M.Sc. I
12.45						
1.35				S.Y.		

NO. OF DAYS WORKED DURING THE ACADEMIC YEAR

FIRST TERM					Actual No. of days worked	SECOND TERM					Actual No. of days worked
Month	Leave Consumed					Month	Leave Consumed				
	Casual Leave	Duty Leave	Special Leave	Other Leave			Casual Leave	Duty Leave	Special Leave	Other Leave	
June											
July											
August											
September			ONLINE MODE OF TEACHING								
October											
TOTAL											

APPOINTMENT ON VARIOUS COMMITTEES

FOR THE YEAR 2020- 2021

- Worked as a training and placement officer.
- Worked as a academic supervisor of senior college.

YEARLY TEACHING PLAN- 2020-21

TABLE FOR AVAILABLE TEACHING HOURS EACH MONTH

Month / Class/Subject	June	July	August	September	October
F.Y.B.Sc. Sem(I)	-	4	5	4	-
Animal Biotechnology		**Biotechnology:** Scope and achievements of Biotechnology (Fishery, Animal Husbandry, Medical, Industrial)	**Transgenesis**: Retro viral method, Nuclear transplantation method, DNA microinjection method and Embryonic stem cell method Cloning (Dolly)	DNA fingerprinting: Technique in brief and its application in forensic science (Crime Investigation) Recombinant DNA in medicines (recombinant insulin) Gene therapy: Ex-vivo and *In vivo,* Severe Combined Immunodeficiency (SCID), Cystic Fibrosis	
S.Y.B.Sc. (Sem III)		4	5	4	
Fundamentals Of Genetics		Classical and Modern concept of Gene (Cistron, muton, recon). Brief explanation of the following terms: Allele, wild type and mutant alleles, locus, dominant and recessive traits, homozygous and heterozygous, genotype and phenotype, genome.	Mendelian Genetics: Monohybrid cross, Dihybrid cross, test cross, back cross, Mendel's laws of Inheritance, Mendelian traits in man. Exceptions to Mendelian Inheritance: Incomplete dominance, Co-dominance, Lethal alleles, Epistasis - Recessive, Double recessive, dominant and double dominant.	Linkage and crossing over, types of crossing over, cytological basis of crossing over. Pedigree analysis- Autosomal dominant and autosomal recessive, X-linked dominant, and X-linked recessive	
T.Y.B.Sc. (Sem V)	**8**	**8**	**10**	**9**	**-**
Basic Immunology	Concept of immunity Innate immunity - Definition, factors affecting innate immunity, Mechanisms of innate immunity - First line of defence -	Adaptive or Acquired immunity, Antibody mediated and cell mediated immunity; Active Acquired immunity - Natural and Artificial; Passive Acquired immunity - Natural and Artificial.	**Antigens**: Definition and properties; haptens **Antibodies:** Definition, basic structure, classes of antibodies - IgG, IgA, IgM, IgD and IgE	**Antigen processing and presentation** Endogenous antigens - cytosolic pathways Exogenous antigens - endocytic pathways	

	physical and chemical barriers; Second line of defence - phagocytosis, inflammatory responses and fever	Cells of immune system - B cells, T cells and null cells, macrophages, dendritic cells and mast cells			
Applied Immunology	General features of antigen-antibody interaction 4.1.2: Precipitation reaction - Definition, characteristics and mechanism Precipitation in gels (slide test) Radial immunodiffusion (Mancini method) Double immunodiffusion (Ouchterlony method)	Immuno electrophoresis - Counter-current and Laurel's Rocket electrophoresis 4.1.4: Agglutination reaction definition, characteristics and mechanism. Haemagglutination (slide and micro-tray agglutination) Passive agglutination Coomb's test 4.1.5: Immunoassay - ELISA	Vaccines against human pathogens: Polio Hepatitis A and B Tuberculosis (BCG)	**Transplantation Immunology:** Introduction to transplantation; Types of grafts; Immunologic basis of graft rejection: MHC compatibility in organ transplantation, Lymphocyte and Antibody mediated graft rejection; Precautionary measures against graft rejection	Adjuvants used for human vaccines: Virosomes and Liposomes Saponins Water-in-oil emulsions 4Vaccines against human pathogens: Polio Hepatitis A and B Tuberculosis (BCG
M.Sc. (Sem I)	--	--	**10**	**10**	**11**
Introduction to evolutionary genetics			Structure of Cytochrome 'c' and ouple cytochrome 'c', Cytochrome 'c' in eukaryotes. Example Primates, Cox gene, Molecular basis of haemoglobin gene structure. Hemoglobin as a model of evolution	Theory of evolution of sex chromosome Evolution of sex chromosomes from autosomes Biology of Y chromosome Molecular level of sex determination in mammals Sex based gene expression T6sRNA	Introduction –human mitochondrial genetics Paternal and maternal mt DNA sinheritance in humans mtDNA mutations and human diseases Salient feature of cytoplasmic inheritance
Molecular Genetics			Molecular analysis of gene and gene	Types of Genes: Definition	Mapping units

			products Types – Genomic Library, cDNA Library Construction of genomic library – human antibody gene library Applications of gene library	Multi-gene Families and Types: a) Split Genes or Interrupted genes Introduction Structure of split genes, Discovery and theory of split genes Evolution of split genes b) Pseudogenes c) Selfish gene	Types – genetic mapping and physical mapping Detection of linkages Construction of linkage maps in diploids and their characteristics Co-efficient of *coincidence* Outline of other types of gene mapping
M.Sc.II Sem – III		**08**	**10**	**10**	**10**
Instrumentation - I		Histochemical and Immunotechniques Detection of molecules using ELISA RIA Western blot Immunoprecipitation Fluocytometry Immunofluorescence microscopy Detection of molecules in living cells, in situ localization by techniques such as FISH and GISH	Chromatographic techniques: Principles and applications Column Chromatography Ion exchange chromatography HPTLC HPLC Gas chromatography		
Instrumentation II				Biophysical Method: Molecular analysis UV/visible Fluorescence, Circular dichroism NMR ESR spectroscopy Molecular structure determination using X-ray diffraction and NMR	Molecular analysis using light scattering Different types of mass spectrometry and surface plasma resonance methods Radiolabeling techniques:

					Detection and measurement of different types of radioisotopes normally used in biology Incorporation of radioisotopes in biological *tissues and* cells Molecular imaging of radioactive material, safety guidelines

Signature - _____

YEARLY TEACHING PLAN – 2020-21

TABLE FOR AVAILABLE TEACHING HOURS EACH MONTH

Month / Class/Subject	November	December	January	February	March
F.Y.B.Sc. Sem-II	**02**	**03**	**05**	**03**	
Concept of Ecosystem	Ecosystem- Definition and components	Impact of temperature on biota	Biogeochemical cycles (Water, Oxygen, Nitrogen, Sulphur)	Animal interactions (commensalism, mutualism, predation, antibiosis, parasitism)	
S.Y.B.Sc. Sem -IV	**02**	**03**	**05**	**03**	
Cell Biology	Definition and scope Generalized prokaryotic , eukaryotic cell: size, shape and structure	Size,shape, number and position, Structure and functions of interphase nucleus, Ultrastructure of nuclear membrane and pore complex Nuclear sap/ nuclear matrix	Fluid Mosaic Model Junctional complexes Membrane receptors ModificationsMicrovilli, Desmosomes and plasmodesmata.	Diffusion and Osmosis Transport: Passive and Active **Endocytosis and Exocytosis** Microtubules: Composition and functions Microfilaments: Composition and functions	
T.Y.B.Sc. Sem VI	06	09	15	10	
Animal Tissue Culture	Sterilization - basic principles of sterilization, importance of sterility in cell culture	Sterile handling - swabbing, capping, flaming, handling bottles and flasks, *pipetting*, pouring	Types of media - Natural and Artificial media Balanced Salt Solutions Complete Media - amino acids, vitamins, salts, glucose, oxygen supplements, hormones and growth factors, antibiotics Factors influencing cell culture - surface tension and foaming, viscosity, temperature, osmolality, pH, CO_2, bicarbonate and O_2 Advantages of tissue culture - control of the environment, *in vitro* modelling of *in vivo* conditions Limitations of tissue culture	Preparation of cells / organs for culture Cover slip, Flask and Tube culture Primary and established cell lines *Hybridoma technology*	

Molecular Biology	Types of mutation Point mutations - substitution, deletion and insertion mutations Substitution mutations - silent, missense and nonsense mutations, transition and transversion Deletion and Insertion mutations - frameshift mutations Trinucleotide repeat expansions - fragile X syndrome, Huntington disease Spontaneous mutation - tautomeric shifts, spontaneous lesions	Induced mutations Physical agents: Ionizing radiation (X-rays, α, β and γ rays) Non-ionizing radiation (UV light) Chemical agents: Base analogs (5-bromouracil) Intercalating agents (ethidium bromide) Deaminating agents (nitrous acid) Hydroxylating agents (hydroxylamine) Alkylating agents (mustard gas) Aflatoxin (aflatoxin B1)	Mechanisms that preventDNA damage-superoxide dismutaseand catalase Mechanisms that repair damaged DNA - direct DNA repair(alkyl transferases, photoreactivation, excision repair) Postreplication repair-recombination repair, mismatch repair, SOS repair	Regulatory protein domains - zinc fingers, helix-turn-helix domain and leucine zipper DNA methylation	
Genetic Engineering	Enzymes involved in Genetic Engineering: Introduction, nomenclature and types of restriction enzymes with examples, Ligases - *E. coli* DNA ligase, T4 DNA ligase, polynucleotide kinase, phosphatases, DNA polymerases, reverse transcriptase, terminal transferase	Vectors for gene cloning: General properties, advantages and disadvantages of cloning vectors - plasmid vectors (pBR322), phage vectors (λ Phage), cosmid vectors (c2XB)	Cloning techniques: Cloning after restriction digestion - blunt and cohesive end ligation, creation of restriction sites using linkers and adapters, cloning after homopolymer tailing, cDNA synthesis (Reverse transcription), genomic and cDNA libraries	PCR techniques: Principle of polymerase chain reaction (PCR), Applications of PCR Sequencing techniques: DNA sequencing: Maxam-Gilbert method, Sanger's method Protein sequencing: Sanger's method, Edman's method Applications of sequencing techniques Detection techniques: Blotting techniques - Southern blotting, Northern blotting and Western blotting Applications of blotting techniques	

M.Sc.I (Sem II)			10	08	10
Processes and techniques in biotechnology			*Organization of* genome in prokaryotes and eukaryotes,C-value paradox and genome size. Complexity of viral, bacterial and eukaryotic genomes, Cotcurves,repetitive and non- repetitive DNA sequences.	Molecular model of DNA replication, Transcription and translation in prokaryotes. Transcription and translation in eukaryotes.	Cloning using plasmid pUC18, pUC19, *detection of* recombinants by blue-white screening, cloning in bacteriophage, cosmid, BACand YAC vectors. Chromosome walking, RAPD, AFLP, Microarrays
Applications of Biotechnology			Microbial fermentation, Microbial growth kinetics,Design of afermenter,Organisms used in large scale fermentation. Productionofantibiotics-Cephalosporin,erythromycin;aminoacids-proline,glutamate;vitamins-cyanocobalamine, riboflavin; Aspartame and Taxol.	Peptide vaccines: synthetic drugs (engineered proteins) Genetic immunization: Antisense DNA, Therapeutic ribozymes Anti-idiotypic vaccine for cancer treatment Monoclonal antibodies (mAbs) and their therapeutic applications.	Effluent treatment, Bioremediation, phytoremediation, Biosensors, Biofuels. Cartagena protocol on biosafety- General features with respect to objectives, precautionary principle *and live* modified organisms (LMO).
M.Sc.II Sem IV			**15**	**12**	**15**
Instrumentation			**Centrifugation:** Principle and applications of Centrifugation Differential and density gradient Centrifugation **Electrophoresis:** Principle Structural components Applications **Chromatography:** Principle and applications	**Spectrophotometer:** Principle, Applications **pH meter** Principle, Applications **Microscopy** Binocular Trinocular	

			Adsorption Ion exchange Gel permeation Affinity		
Presentation of Scientific Data				**2.1 Types of presentation:** Oral Poster Written Audio-visual **Aids for presentation** **2.2 Preparing the manuscript** Guidelines for authors The IMRAD format **2.3 Title, Byline, Abstract and Summary, Keywords** **2.4 Introduction:** Defining the problem Literature survey Justification of study	**2.5 Materials and Methods:** Contents Sources Procedures Techniques Reproducibility Significance **2.6 Results:** Text How to present data Tables and illustrations Writing captions Labels and legends **2.7 Discussion:** Components and Sequence Analysis, Comparison and Integration of Data Likely Sources of Errors in Results

Signature -

DAILY TEACHING REPORT

Date - 03/08/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	Online Teaching Mode						
2.							

Signature

DAILY TEACHING REPORT

Date - 04/08/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20.	T.Y	II	Introduction to Immunology	18	30
2.							
3.							
4.							

Signature

DAILY TEACHING REPORT

Date - 05/08/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15.	1.30	T.Y	III	Study of mammalian tissue	16	30

Signature

DAILY TEACHING REPORT

Date - 06/08/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
	Admission process						

Signature –

DAILY TEACHING REPORT

Date - 07/08/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	Admission process						
2.							

Signature –

DAILY TEACHING REPORT

Date - 08/08/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.15	T.Y.	II	Innate Immunity	18	30

Signature –

DAILY TEACHING REPORT

Date - 10/08/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	Admission Process						
2.							

Signature –

DAILY TEACHING REPORT

Date - 11/08/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y .	P II	Mechanism of innate immunity	15	30

Signature –

DAILY TEACHING REPORT

Date - 12/08/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	1.30	T.Y.	P II	RBC Counting	20	30

Signature –

DAILY TEACHING REPORT

Date - 13/08/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	No Students as admission process was in progress						

Signature –

DAILY TEACHING REPORT

Date - 14/08/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	1.35	2.20	S.Y.	P I	Introduction to genetics	35	155
2.							

Signature –

DAILY TEACHING REPORT

Date - 15/08/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	T.Y	P II	Lines of defense	16	30

Signature –

DAILY TEACHING REPORT

Date - 17/08/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	SY	P I	Introduction to practs.	45	72
2.							

Signature –

DAILY TEACHING REPORT

Date - 18/08/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	P III	Acquired immunity	14	30

Signature –

DAILY TEACHING REPORT

Date - 19/08/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.					Holiday		

Signature –

DAILY TEACHING REPORT

Date - 20/08/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	2.20	MSc II	III	Observation of decreasing Po2	8	10

Signature –

DAILY TEACHING REPORT

Date - 21/08/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	Msc II	III	ELISA	8	10
2.	11.05	1.30	S.Y	P I	Extraction of DNA	60	72

Signature –

DAILY TEACHING REPORT

Date - 22/08/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	T.Y.	P II	Acquired immunity	20	30
2.	9.25	10.15	MSc II	PIII	RIA	8	10

Signature –

DAILY TEACHING REPORT

Date - 24/08/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	S.Y.	P I	Extraction of DNA	35	70

Signature – .

DAILY TEACHING REPORT

Date - 25/08/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	P III	Mechanism of acquired immunity	12	30

Signature –

DAILY TEACHING REPORT

Date - 26/08/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	M.Sc. II	III	Flow cytometry	8	10
2.	10.15	1.30	T.Y.	II	Enumeration of RBC	16	30

Signature –

DAILY TEACHING REPORT

Date - 27/08/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	2.20	M Sc II	III	Effect of temperature on fish opercula	8	10

Signature –

DAILY TEACHING REPORT

Date - 28/08/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	M Sc II	III	Immunofluorescence	10	12
2.	11.05	1.30	S.Y.	I	Extraction of RNA	52	72
3.	1.35	2.20	S.Y	I	Concept of gene	60	155

Signature –

DAILY TEACHING REPORT

Date - 29/08/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total

Signature –

DAILY TEACHING REPORT

Date - 31/08/2020 Day: Monday

Sr. no.	Hours		Class	Subject / paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	11.05	1.35	S.Y	I	Extraction of RNA	45	70

Signature –

DAILY TEACHING REPORT

Date - 01/09/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.Y	III	Organs of immune system	17	30

Signature –

DAILY TEACHING REPORT

Date - 02/09/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.10	MSc II	III	Western blotting	10	12
	10.15	1.30	T.Y.	III	Differential count	18	30

Signature –

DAILY TEACHING REPORT

Date - 03/09/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y.	I	Introduction to pract.	60	82
2	11.05	2.20	M.Sc II	III	Chick embryology	10	12

Signature –

DAILY TEACHING REPORT

Date - 04/09/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.10	M.Sc.II	III	Immuniprecipitation	10	12
2	11.05	1.30	S.Y.	I	Study of polytene chromosome	60	72
3	1.35	2.20	S.Y.	I	Different terms in genetics	60	155

Signature –

DAILY TEACHING REPORT

Date - 05/09/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	T.Y.	III	Primary organs of Immune system	16	30
2.	9.25	10.15	M.Sc. II	III	Intro to chromatography	10	12
3.	11.05	11.55	F.Y.	II	Animal Technology	80	120

Signature –

DAILY TEACHING REPORT

Date - 07/09/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	S.Y.	I	Monohybrid Cross	45	70

Signature –

DAILY TEACHING REPORT

Date - 08/09/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.Y.	P III	Secondary organs	17	30
2.	11.05	12.30	M Sc I	P III	Intro to practicals	15	24

Signature –

DAILY TEACHING REPORT

Date - 09/09/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.15	MSc II	III	Column Chromatography	10	12
2.	10.15	1.30	T.Y.	III	ESR	16	30

Signature –

DAILY TEACHING REPORT

Date - 10/09/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	F.Y.	I	Animal interaction	55	82

Signature –

DAILY TEACHING REPORT

Date - 11/09/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.25	MSc II	III	HPLC	10	12
2.	10.15	1.35	T.Y.BSc	III	Estimation of Haemoglobin	15	30
3	1.35	2.20	S.Y.	I	Concept in genetics	45	155

Signature –

DAILY TEACHING REPORT

Date - 12/09/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y.	III	Organs of Immune system	15	30
2.	9.25	10.15	M Sc II	III	HPTLC	10	12
3.	11.05	11.55	F.Y.	II	Animal biotechnoloy	60	120

Signature –

DAILY TEACHING REPORT

Date - 14/09/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	10.15	1.35	S.Y.	P.I	Monohybrid cross	45	70

Signature –

DAILY TEACHING REPORT

Date - 15/09/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	III	Antigen	17	30
2.	11.05	11.55	M.Sc. I	III	Introductory lect	10	24.

Signature –

DAILY TEACHING REPORT

Date - 16/09/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	M.Sc.II	III	GC	10	12
2.	10.15	1.30	T.Y.	II	Folin's Method	16	30

Signature –

DAILY TEACHING REPORT

Date - 17/09/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	F.Y	I	Animal intercation	60	82
2.	11.05	2.20	M.Sc II	III	PAGE	10	12

Signature –

DAILY TEACHING REPORT

Date - 18/09/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.					HOLIDAY		

Signature –

DAILY TEACHING REPORT

Date - 19/09/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total

Signature –

DAILY TEACHING REPORT

Date - 21/09/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	MSc. I	P III	Study of fossils	20	24
2.	10.15	1.30	S.Y.	II	Di hybrid cross	35	70

Signature –

DAILY TEACHING REPORT

Date - 22/09/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.Y.	III	Antibody	19	30
2.	11.05	11.55	MSc I	III	Concept of gene	18	24

Signature –

DAILY TEACHING REPORT

Date - 23/09/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.15	M.Sc. II	III	Ion exchange chromatography	10	12
2.	10.15	1.35	T.Y.	III	Estimation Triglycerides	18	30

Signature –

DAILY TEACHING REPORT

Date - 24/09/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y.B.Sc	I	Animal interaction	60	72

Signature – HC.

DAILY TEACHING REPORT

Date - 25/09/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	M.Sc. II	III	Ion exchange chromatography	8	12
2.	10.15	01:35	S.Y.BSc	II	Genetics problem	60	72
3	1.35	2.20	S.Y.Bsc	II	Mendels laws	60	155

Signature – HC

DAILY TEACHING REPORT

Date - 26/09/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y.	III	Classes of Antibody	16	30
2.	9.25	10.15	M.Sc II	III	GISH	10	12
3.	11.05	11.55	F.Y.	I	Achievement of Biotechnology	60	120
4	11.55	12.45	M.Sc. I	III	Types of genes	18	24

Signature – HC.

DAILY TEACHING REPORT

Date - 28/09/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	MSc I	III	Isolation of DNA	19	24
2.	10.15	1.35	SY	II	Problems on genetics	40	70s

Signature –

DAILY TEACHING REPORT

Date - 29/09/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 30/09/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	MSc II	III	FISH	10	12
2.	10.15	1.30	T.Y.	III	Bleeding time and clotting time	16	30

Signature –

DAILY TEACHING REPORT

Date - 1/10/2020 *Day: Thursday*

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	F.Y.BSc	P I	Types of feathers	60	120

Signature –

DAILY TEACHING REPORT

Date - 2/10/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	Gandhi Jayanti						

Signature – HS

DAILY TEACHING REPORT

Date - 03/10/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	T.Y.	PIII	Antigen antibody interaction	16	30
2.	10.15	11.05	MSc II	III	Uv /Visible spect.	10	12
3.	11.05	11.55	F.Y	II	Cloning	75	120
4	11.55	12.45	MSc I	III	Gene library	18	24

Signature – HS

DAILY TEACHING REPORT

Date - 5/10/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							
2.							

Signature – HS

DAILY TEACHING REPORT

Date - 6/10/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.T	II	Innate Immunity	18	30

Signature – HS

DAILY TEACHING REPORT

Date - 7/10/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.25	Msc II	III	NMR	8	12
2.	10.15	1.30	T.Y.	III	RA test	16	30

Signature – HS

DAILY TEACHING REPORT

Date - 8/10/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y	I	Types of Corals	20	24
2	11.05	2.20	MSc II	III	PAGE	10	12

Signature – HS

DAILY TEACHING REPORT

Date - 9/10/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	Casual leave						

Signature –

DAILY TEACHING REPORT

Date - 10/10/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y	III	Precipitation Reaction	12	30
2.	9.25	10..15	MSc II	III	Radiolabel technique	10	12
3.	11.05	11.55	F.Y	II	Gene transfer	60	120
4	11.55	12.5	MSc I	III	Gene Library	18	24

Signature –

DAILY TEACHING REPORT

Date - 12/10/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	MSc I	III	Brood parasitism	20	24
2.	11.05	11.55	S.Y.	II	Mitosis	45	70

Signature –

DAILY TEACHING REPORT

Date - 13/10/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.Y	III	Types of pptn reaction	16	30
2.	11.05	11.55	MSc I	III	CDNA library	18	24

Signature –

DAILY TEACHING REPORT

Date - 14/10/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	M.Sc.II	III	Molecular imaging	10	12
2.	10.15	1.30	T.Y.	III	Types of agglutination	16	30

Signature –

DAILY TEACHING REPORT

Date - 15/10/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y	II	Types of corals	60	82
2.	11.05	2.20	MSc II	III	Bio reactor	10	12

Signature –

DAILY TEACHING REPORT

Date - 16/10/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1							

Signature –

DAILY TEACHING REPORT

Date - 17/10/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y.	III	ELISA	16	30
2.	9.25	10.15	MSc II	III	GM counter	10	12
3.	11.05	11.55	M.Sc. I	III	Gene Mapping	19	24
4.	11.55	12.45	F.Y.	II	DNA Fingerprinting	55	120

Signature –

DAILY TEACHING REPORT

Date - 19/10/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.25	10.15	MSc I	III	Study of syndrome	20	24
2.	11.05	1.30	S.Y.	III	Pedigree Analysis	35	70

Signature –

DAILY TEACHING REPORT

Date - 20/10/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.Y.	III	LC 50	23	30

Signature –

DAILY TEACHING REPORT

Date - 26/10/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	9.30	12.30	MSc I	PIII	Practical Demo	20	23

Signature –

DAILY TEACHING REPORT

Date - 27/10/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	III	RIA	13	30
2.	11.05	11.55	M.Sc.I	III	Cytochrome C	20	24

Signature –

DAILY TEACHING REPORT

Date - 28/10/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.25	MSc II	III	Biophysical technique	10	12
2.	10.15	1.30	T.Y.	III	Journal Completion	16	30

Signature –

DAILY TEACHING REPORT

Date - 29/10/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y.	I	Mounting of scales	60	82
2.	11.05	2.20	M.Sc II	III	Journal Completion	10	12

Signature –

DAILY TEACHING REPORT

Date - 30/10/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	MSc II	P III	Mass Spectroscopy	8	12
2.	11.05	1.30	S.Y.	III	Chromosome Morphology	70	82

Signature –

DAILY TEACHING REPORT

Date - 31/10/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.20	T Y	III	Immuno-diffusion	16	30
2.	9.25	10.15	MSc II	P III	X ray diffraction	8	12
3.	11.05	11.55	F.Y.	II	DNA fingerprinting	60	120

Signature –

DAILY TEACHING REPORT

Date - 2/11/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	M Sc I	PIII	Study of cloning	20	24
2.	1105	12.30	SY	III	Journal Correction		

Signature –

DAILY TEACHING REPORT

Date - 3/11/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	11.55	MSc I	III	Concept of gene mapping	15	24

Signature –

DAILY TEACHING REPORT

Date - 4/11/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.25	MSc. II	III	Plasmon surface resonance	8	12

Signature –

DAILY TEACHING REPORT

Date - 5/11/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y.	PII	Identification of birds	70	82

Signature –

DAILY TEACHING REPORT

Date - 6/11/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	11.05	12.30	SY		Journal Completion		
2.	1.00	2.00	SY	I	Concept of Dominance	40	155

Signature –

DAILY TEACHING REPORT

Date - 7/11/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 9/11/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.30	MSc I	III	Presentation		
2.							

Signature –

DAILY TEACHING REPORT

Date - 10/11/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	PIII	Vaccines	14	30
2.	11.55	12.45	M Sc 1	PIII	Three point test cross	15	24

Signature –

DAILY TEACHING REPORT

Date - 11/11/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	12.30	T.Y.	III	Journal Correction		

Signature –

DAILY TEACHING REPORT

Date - 12/11/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	1.35	FY	I	Journal completion		
2.	11.05	1.30	MsC II	III	Internal presentation		

Signature –

DAILY TEACHING REPORT

Date - 13/11/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	1.35	2.20	S.Y.	I	Epistasis	45	155

Signature –

DAILY TEACHING REPORT

Date - 14/11/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	11.55	F.Y.	II	Microinjection	55	110

Signature –

DAILY TEACHING REPORT

Date - 16/11/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	11.05	M SC I	III	Problems on gene mapping	15	24

Signature – HS

DAILY TEACHING REPORT

Date - 17/11/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	8.20	T.Y	III	Types of vaccines	12	30
2.	11.05	11.55	Msc I	III	Split genes	13	24

Signature – HS

DAILY TEACHING REPORT

Date - 18/11/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	8.20	9.25	M.Sc. II	III	Scintillation	8	12
2.	10.15	12.30	T.Y	III	Journal certification		

Signature – HS

DAILY TEACHING REPORT

Date - 19/11/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	7.30	10.15	F.Y	II	Observation of fauna	55	82

Signature –

DAILY TEACHING REPORT

Date - 20/11/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	9:25	10:15	M.sc P-II	Oceanography	Lecture	5	10
2.	12:45	01:35	F.Y B.sc	Lecture	Lecture	82	308

Signature –

DAILY TEACHING REPORT

Date - 21/11/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	11.55	F.Y.	II	DNA Fingerprinting	66	120
2.	11.55	12.45	MSC I	III	Construction of gene library.	15	24
3.							

Signature –

DAILY TEACHING REPORT

Date - 23/11/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	M.Sc. I	PIII	Study of haemoglobin	15	24
2.	11.05	1.30	SY	PII	Journal Certification		

Signature –

DAILY TEACHING REPORT

Date - 24/11/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	11.55	MSc I	III	Fossil dating	15	24

Signature –

DAILY TEACHING REPORT

Date - 25/10/2020 (Holiday) Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 26/11/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	Study leave for students						

Signature –

DAILY TEACHING REPORT

Date - 27/11/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	Study leave for students						

Signature –

DAILY TEACHING REPORT

Date - 28/11/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	Study leave for students						

Signature –

DAILY TEACHING REPORT

Date - 30/11/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 1/12/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7:30	8:20	S.Y B.sc	Zoology	Lecture	45	155
2.	9:25	10:15	M.sc P-II	Oceanography	Lecture	5	10
3.	11:05	11:55	M.sc P-I	Zoology	Lecture	15	24
4.	11:55	12:45	F.Y B.sc	Zoology	Lecture	82	308

Signature –

DAILY TEACHING REPORT

Date - 2/12/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7:30	8:20	T.Y B.sc	Zoology	Lecture	4	30
2.	9:25	10:15	M.sc P-II	Oceanography	Lecture	5	10
3.	11:05	11:55	M.sc P-I	Zoology	Lecture	15	24

Signature –

DAILY TEACHING REPORT

Date - 3/12/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total

Signature –

DAILY TEACHING REPORT

Date - 4/12/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 5/12/2020 Day: Saturday

Sr. no.	Hours		Class	Subject / paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7:30	08:20	F.Y B.sc	Practical	Practical	82	308
2.	11:05	11:55	M.sc P-II	Animal Physiology	Lecture	08	12
3.	11:55	01:35	S.Y B.sc	Practical	Practical	60	155

Signature –

DAILY TEACHING REPORT

Date - 7/12/2020 Day: Monday

Sr. no.	Hours		Class	Subject / Paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	9:25	10:15	M.sc P-II	Oceanography	Lecture	5	10
2.	11:05	01:35	M.sc P-II	Oceanography	Practical	5	10

Signature –

DAILY TEACHING REPORT

Date - 8/12/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 9/12/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total

Signature – HS.

DAILY TEACHING REPORT

Date - 10/12/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature – HS.

DAILY TEACHING REPORT

Date - 11/12/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							
2.							

Signature – HS.

DAILY TEACHING REPORT

Date – 13/12/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	Last Working Day of Semester						

Signature – HS.

DAILY TEACHING REPORT

Date - 15/12/2020 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 16/12/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 17/12/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	1.30	T.Y.	PIII	Intro. To practical	16	30

Signature –

DAILY TEACHING REPORT

Date - 18/12/2020 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	FY	II	Study of human parasites	66	82

Signature –

DAILY TEACHING REPORT

Date - 19/12/2020 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	SY	III	Abstract writing ,bibliography	60	72
2.	1.30	1.35	S.Y.	II	Introduction to cell biology	60	155

Signature –

DAILY TEACHING REPORT

Date - 20/12/2020 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y.	III	Intro. To Mol.bio	12	30
2.	11.05	11.55	F.Y.	II	Ecosystem	60	120

Signature –

DAILY TEACHING REPORT

Date - 22/12/2020 Day. Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	S.Y.	III	Bibliography ,abstract writing	35	70

Signature –

DAILY TEACHING REPORT

Date - 23/12/2020 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	TY	III	Protein synthesis	18	30

Signature –

DAILY TEACHING REPORT

Date - 24/12/2020 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	1.30	TY	III	Human karyotyping	18	30

Signature – HS

DAILY TEACHING REPORT

Date - 01/02/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	SY	II	Test for Carbohydrate	35	70

Signature – HS

DAILY TEACHING REPORT

Date - 02/02/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	III	DNA repair mechanism	16	30

Signature – HS

DAILY TEACHING REPORT

Date - 03/02/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	1.35	TY	III	interpretation of genetic formula	18	30

Signature – HS

DAILY TEACHING REPORT

Date - 04/02/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	F.Y.	II	identification	57	82

Signature – HS

DAILY TEACHING REPORT

Date - 05/02/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	S.Y.	II	Test for Carbohydrates	52	72
2.	1.35	2.20	S.Y.	II	Nucleus - stucture	56	155

Signature – HS

DAILY TEACHING REPORT

Date - 06/02/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y.	III	Tools of Gen.Engi.	16	30
2.	11.05	11.55	F.Y.		Food web /Chain	54	120

Signature – HS

DAILY TEACHING REPORT

Date - 08/02/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	S.Y.	PII	Test for Carbohydrates	34	70

Signature – HC

DAILY TEACHING REPORT

Date - 09/02/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.25	T.Y.	III	Vectors	16	30

Signature – HS

DAILY TEACHING REPORT

Date - 10/02/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	1.30	T.Y.	III	AGE	16	30

Signature – HSa

DAILY TEACHING REPORT

Date - 11/02/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	F.Y.	II	Starch Granules	45	82

Signature – HSa

DAILY TEACHING REPORT

Date - 12/02/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	1.30	S.Y.	II	Permeability of cells	55	72
2.	1.30	2.20	S.Y.	II	Cyto skeleton	55	155

Signature – HSa

DAILY TEACHING REPORT

Date - 13/02/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.10	T.Y	III	Vectors	15	30
2.	11.05	11.55	F.Y.	II	Bio-geo chemical cycle-	60	120

Signature –

DAILY TEACHING REPORT

Date - 15/02/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	MSc.I	IV	Proposal to IAEC	16	24

Signature –

DAILY TEACHING REPORT

Date - 16/02/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	TY	III	Restriction enzyme	16	30
2.	11.05	11.55	M.Sc.I	III	Vectors	18	24

Signature –

DAILY TEACHING REPORT

Date - 17/02/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	M.Sc. II	III	Affinity chromatography	10	12
2.	10.15	1.30	T.Y.	III	PAGE	17	30

Signature –

DAILY TEACHING REPORT

Date - 18/02/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.30	F.Y.	II	Estimation of prots. In eggs.	55	82
2.	11.05	2.20	MSc	II	Project Work	10	12

Signature –

DAILY TEACHING REPORT

Date - 19/02/2021 *Day: Friday*

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	M.Sc. II	IV	Adsorption chromatography	10	12
2.	11.05	11.55	S.Y.	II	Osmosis	54	72
3.	1.35	2.20	S.Y.	II	Microtubule, Micro filament	53	155

Signature –

DAILY TEACHING REPORT

Date - 20/02/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	TY	III	Blotting techniques	16	30
2.	9.25	10.15	MSc II	IV	Ion Exchange chromatography	10	12
3.	11.05	11.55	F.Y.	II	Bio geo chemical cycle	85	120
4.	11.55	12.45	MSc I	III	Vectors	16	24

Signature –

DAILY TEACHING REPORT

Date - 22/02/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	Msc I	IV	Proposal for funding	16	24
2.	11.05	1.30	S.Y.	II	Osmosis in blood cells	36	70

Signature –

DAILY TEACHING REPORT

Date - 23/02/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	TY	III	PCR	16	30
2.	11.05	11.55	MSc I	III	Monoclonal antibodies	16	24

Signature –

DAILY TEACHING REPORT

Date - 24/02/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.15	MSc II	IV	Electrophoresis	8	12
2.	10.15	1.30	T.Y.	III	Mitotic Index	15	30

Signature –

DAILY TEACHING REPORT

Date - 25/02/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.10	MSc II	IV	Gel permeation	10	12
2.	11.05	1.30	S.Y.	II	Osmosis of blood cells	55	72

Signature –

DAILY TEACHING REPORT

Date - 26/02/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	1.30	2.20	S.Y	II	Plasma memb.	56	155

Signature –

DAILY TEACHING REPORT

Date - 27/02/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	TY	III	DNA sequencing	15	30
2.	9.25	10.15	MSC II	IV	pH meter	8	12
3.	11.05	11.55	F.Y.	II	Animal interaction	90	120
4	11.55	12.45	M Sc I	III	Chomosome walking	15	24

Signature –

DAILY TEACHING REPORT

Date - 01/03/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	Msc I	IV	Evaluation of journal	12	24
2.	11.05	1.30	SY	II	Occulometry	35	70

Signature –

DAILY TEACHING REPORT

Date - 02/03/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature

DAILY TEACHING REPORT

Date - 03/03/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	Msc II	IV	Microscopy	10	12
2.	10.15	1.35	T.Y.	III	Problems based on restriction	16	30

Signature –

DAILY TEACHING REPORT

Date - 04/03/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	2.20	MSc II	IV	Project work		

Signature –

DAILY TEACHING REPORT

Date - 5/03/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	MSc II	IV	Presentation of data	10	12
2	1.35	2.20	S.Y.	II	Transport Across the memb.	52	155

Signature –

DAILY TEACHING REPORT

Date - 06/03/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 08/03/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	MSc I	IV	Model Organism	15	24

Signature –

DAILY TEACHING REPORT

Date - 09/03/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	T.Y.	II	Animal Tissue Culture	12	30
2.	11.05	11.55	MSc I	III	Medical biotechnology	15	24

Signature –

DAILY TEACHING REPORT

Date - 10/03/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	MSc II	IV	IMRAD	10	12
2.	10.15	1.30	T.Y.	III	LDH	15	30

Signature –

DAILY TEACHING REPORT

Date - 11/03/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	2.20	MSc II	IV	Project work	10	12

Signature –

DAILY TEACHING REPORT

Date - 12/03/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	1.35	2.20	S.Y.Bsc.	II	Active passive transport	56	155

Signature –

DAILY TEACHING REPORT

Date - 13/03/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	8.20	9.25	T.Y.	II	Sterilization	15	30
2.	9.25	10.15	Msc.II	IV	Structure of research paper	10	12
3.	11.05	11.55	FY	II	Animal interaction	65	120
4.	11.55	12.45	MSc I	III	Peptide vaccines	20	24

Signature –

DAILY TEACHING REPORT

Date - 15/03/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	MSc I	IV	SPSS	19	24
2.	11.05	1.30	S.Y.	II	Journal Correction		

Signature –

DAILY TEACHING REPORT

Date - 16/03/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	TY	II	Complete media	12	30
2.	11.05	11.55	MScI	III	Genetic immunization	12	24

Signature –

DAILY TEACHING REPORT

Date - 17/03/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	1.35	T.Y.	III	Journal completion	10	30

Signature –

DAILY TEACHING REPORT

Date - 18/03/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	FY	II	Journal completion		
2	11.05	2.20	M Sc II	IV	Project work	10	12

Signature –

DAILY TEACHING REPORT

Date - 19/03/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	1.30	2.20	S.Y.	II	Transport across the membrane	70	155

Signature –

DAILY TEACHING REPORT

Date - 20/03/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 22/03/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	10.15	Msc I	IV	Calculation of diversity indices	16	24

Signature –

DAILY TEACHING REPORT

Date - 24/03/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.							

Signature –

DAILY TEACHING REPORT

Date - 25/03/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	Administrative Work						

Signature –

DAILY TEACHING REPORT

Date - 01/04/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	7.30	8.20	FY		Journal Correction		
2.	11.05	2.20	MSc II	IV	Project work		

Signature –

DAILY TEACHING REPORT

Date - 02/04/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.			Good Friday				

Signature –

DAILY TEACHING REPORT

Date - 03/04/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.55	12.45	MSc I	PIII	Subunit vaccine	15	24

Signature –

DAILY TEACHING REPORT

Date - 05/04/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	11.55	MSc I	III	Monoclonal Antibodies	14	22

Signature –

DAILY TEACHING REPORT

Date - 6/04/2021 Day: Tuesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.05	11.55	M Sc I	III	Microarrays	20	22

Signature –

DAILY TEACHING REPORT

Date - 07/04/2021 Day: Wednesday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	10.15	12.30	TY	III	Revision of practs	24	30

Signature –

DAILY TEACHING REPORT

Date - 08/0/2021 Day: Thursday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1	12.00	1.00	Msc II	IV	Project revision	08	10

Signature –

DAILY TEACHING REPORT

Date - 09/04/2021 Day: Friday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	12.00	1.00	Msc II	IV	Project revision	08	10

Signature –

DAILY TEACHING REPORT

Date - 11/03/2021 Day: Saturday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	12.00	1.00	Msc II	IV	Project revision	08	10
2.	1.00	2.00	M.Sc. I	IV	Research proposal	18	20

Signature –

DAILY TEACHING REPORT

Date - 13/04/2021 Day: Monday

Sr. no.	Hours		Class	Subject /paper	Particulars of Teaching syllabus	No. of students	
	From	To				Present	Total
1.	11.00	1.00	M.Sc. I	IV	Model organisms	20	22

Signature –

NO. OF DAYS WORKED DURING THE ACADEMIC YEAR

FIRST TERM						SECOND TERM					
Month	Leave Consumed				Actual No. of days worked	Month	Leave Consumed				Actual No. of days worked
	Casual Leave	Duty Leave	Special Leave	Other Leave			Casual Leave	Duty Leave	Special Leave	Other Leave	
June											
July											
August				Online Mode of Teching							
September											
October											
TOTAL											

PARTICIPATION IN CO – CURRICULAR & EXTRA CURRICULAR ACTIVITIES

Nature of Activity	Details of Activities/Programme			
	Date	Speaker	Subject	Remarks

PARTICIPATION IN CO – CURRICULAR & EXTRA CURRICULAR ACTIVITIES

Nature of Activity	Details of Activities/Programme			
	Date	Speaker	Subject	Remarks

PARTICIPATION IN SEMINARS/WORKSHOPS DURING THE ACADEMIC YEAR

Organizer	Duration	Subject/Theme	Speakers	Remarks

PARTICIPATION IN ORIENTATION / REFRESHER COURSES

Course	Venue	Organizer	Theme/Subject	Duration	Remarks
NIL					

PUBLICATIONS

NIL

PARTICIPATION IN EXAM WORK

Examination	Capacity	Class	Subject	Paper	Participant in CAP
1. University Level	Examiner	T.Y.	Toxicology and Biostats.	III	Yes
	Examiner	T.Y.	Molecular Biology and Genetic Engineering	III	Yes
	Moderator	T.Y.	Molecular Biology and Genetic Engineering	III	Yes
2. YCMOU	NIL				

PARTICIPATION IN NATIONAL / STATE LEVEL ACTIVITIES

Name of Activity	Duration	Work Done
NIL		

FEEDBACK FROM STUDENTS (Previous Academic Year)

Students of Class	Subject	Marks	Grade
NIL			

PARTICIPATION IN NATIONAL / STATE LEVEL ACTIVITIES

Name of Activity	Duration	Work Done
NIL		

FEEDBACK FROM STUDENTS (Previous Academic Year)

Students of Class	Subject	Marks	Grade
NIL			

RESULT ANALYSIS OF EXAMINATION HELD IN THE PRECEDINGS ACADEMIC YEAR 2020 - 2021 (For I,III,V and M.Sc. Sem I and III)

E) MARKSWISE

Class/Paper/Marks	F.Y.	S.Y.	T.Y.			
0 – 10	--	--	--	--	--	--
11 – 20	--	--	--	--	--	--
21 – 34	--					--
35 – 59	60	45	04	02	03	04
60 – 70	62	30	05	04	06	05
71 – 80	30	10	03	05	02	05
81 – 90	10	09	02	03	03	02
91 – 100	--	15	02	02	02	--
% of Passing	*100%*	*100%*	*100%*	*100%*	*100%*	*100%*

F) AT A GLANCE

Class	Paper	I Class	II Class	Pass Class	Failed	Total	% of Passing
F.Y.B.Sc.	Paper- II	140	60	--	--	200	100%
S.Y.B.Sc.	Paper I	100	30	--		130	100%
T.Y .B.Sc.	Paper III	11	06	-		17	100%
M.Sc. I	Paper III	10	3	--	03	24	76%
M.Sc. II	Paper IV	07	--	--	03	10	70%

Remedial Measures and Special Guidance 2020-21

----------NIL ----------

II,IV,VI, M.Sc.II, M.Sc.IV SEM COMPLIANCE REPORT

ZOOLOGY -2020-21

Name of the teacher : Dr. Harshad S.Vanmali

Program / Paper No.	SEM	Unit No.	Particulars / Title and content	Date of Compliance
F.Y.B.Sc. Paper II Ecosystem	II	II	Ecosystem- Definition and components	28/11/2020
			Impact of temperature on biota	7/12/2020
			Biogeochemical cycles (Water, Oxygen, Nitrogen, Sulphur)	22/12/2020
			Animal interactions (commensalism, mutualism, predation, antibiosis, parasitism)	7/02/2021
S.Y.B.Sc. Paper II Cell Biology	IV	I	Definition and scope Generalized prokaryotic , eukaryotic cell: size, shape and structure Size, shape, number and position, Structure and functions of interphase nucleus, Ultrastructure of nuclear membrane and pore complex Nuclear sap/ nuclear matrix	22/11/2020 15/12/2020
			Fluid Mosaic Model Junctional complexes *Membrane receptors* ModificationsMicrovilli, Desmosomes and plasmodesmata.	22/12/2020
			Diffusion and Osmosis Transport: Passive and Active **Endocytosis and Exocytosis** Microtubules: Composition and functions Microfilaments: Composition and functions	28/01/2021
T.Y.B.Sc. PIII Animal Tissue Culture	VI	IV	Sterilization - basic principles of sterilization, importance of sterility in cell culture	20/11/2020
			Sterile handling - swabbing, capping, flaming, handling bottles and flasks, pipetting, pouring	24/11/2020
			Types of media - Natural and Artificial media Balanced Salt Solutions Complete Media - amino acids,	20/12/2020
			Types of media - Natural and Artificial media Balanced Salt Solutions Complete Media - amino acids, vitamins, salts, glucose, oxygen supplements, hormones and growth factors, antibiotics	21/01/2021

			Factors influencing cell culture - surface tension and foaming, viscosity, temperature, osmolality, pH, CO_2, bicarbonate and O_2 Advantages of tissue culture - control of the environment, *in vitro* modelling of *in vivo* conditions Limitations of tissue culture	
			Preparation of cells / organs for culture Cover slip, Flask and Tube culture Primary and established cell lines Hybridoma technology	4/02/2021
T.Y.B.Sc. Paper III Molecular Biology	VI	Unit 2	Types of mutation Point mutations - substitution, deletion and insertion mutations Substitution mutations - silent, missense and nonsense mutations, transition and transversion Deletion and Insertion mutations - frameshift mutations Trinucleotide repeat expansions - fragile X syndrome, Huntington disease Spontaneous mutation - tautomeric shifts, spontaneous lesions	29/11/2020
			Induced mutationsPhysical agents: Ionizing radiation (X-rays, α, β and γ rays) Non-ionizing radiation (UV light)Chemical agents:Base analogs (5-bromouracil)Intercalating agents (ethidium bromide) Deaminating agents (nitrous acid) Mechanisms that preventDNA damage- superoxide dismutaseand catalase Mechanisms that repair damaged DNA - direct DNA repair(alkyl transferases, photoreactivation, excision repair) Postreplication repair- recombination repair, mismatch repair, SOS repair Regulatory protein domains - zinc fingers, helix-turn-helix domain and leucine zipper DNA methylation	9/2/2021
T.Y.B.Sc. Paper III Molecular Biology	VI	Unit 3	Enzymes involved in Genetic Engineering: Introduction, nomenclature and types of restriction enzymes with examples, Ligases - *E. coli* DNA ligase, T4 DNA ligase, polynucleotide kinase, phosphatases, DNA polymerases, reverse transcriptase, terminal transferase	22/11/2020
			Vectors for gene cloning: General properties, advantages and disadvantages of cloning	19/12/2020

			vectors - plasmid vectors (pBR322), phage vectors (λ Phage), cosmid vectors (c2XB)	
			Cloning techniques: Cloning after restriction digestion - blunt and cohesive end ligation, creation of restriction sites using linkers and adapters, cloning after homopolymer tailing, cDNA synthesis (Reverse transcription), genomic and cDNA libraries	10/01/2021
			PCR techniques: Principle of polymerase chain reaction (PCR), Applications of PCR Sequencing techniques: DNA sequencing: Maxam-Gilbert method, Sanger's method Protein sequencing: Sanger's method, Edman's method	30/01/2021
			Applications of sequencing techniques Detection techniques: Blotting techniques - Southern blotting, Northern blotting and Western blotting Applications of blotting techniques	22/02/2021
MSc. I Processes and techniques in biotechnology	II	Unit 3	Organization of genome in prokaryotes and eukaryotes,C-value paradox and genome size. Complexity of viral, bacterial and eukaryotic genomes, Cotcurves,repetitive and non- repetitive DNA sequences.	30/01/2021
			Molecular model of DNA replication, Transcription and translation in prokaryotes. Transcription and translation in eukaryotes.	24/02/2021
			Cloning using plasmid pUC18, pUC19, detection of recombinants by blue-white screening, cloning in bacteriophage, cosmid, BACand YAC vectors. Chromosome walking, RAPD, AFLP, Microarrays	30/03/2021
MSc. I Applications Of Biotechnology	II	Unit 4	Microbial fermentation, Microbial growth kinetics,Design of afermenter,Organisms used in large scale fermentation. Productionofantibiotics-Cephalosporin,erythromycin;aminoacids-*proline,glutamate;vitamins-cyanocobalamine*, riboflavin; Aspartame and Taxol.	22/03/2021
			Peptide vaccines: synthetic drugs (engineered proteins) Genetic immunization: Antisense DNA, Therapeutic ribozymes Anti-idiotypic vaccine for cancer treatment Monoclonal antibodies (mAbs) and their therapeutic applications.	30/03/2021

			Effluent treatment, Bioremediation, phytoremediation, Biosensors,Biofuels. Cartagena protocol on biosafety- General features with respect to objectives, precautionary principle and live modified organisms (LMO).	15/04/2021
M.Sc.II Paper IV Instrumentation	VI	Unit 1	**Centrifugation:.**Principle and applications of Centrifugation , Differential and density gradient Centrifugation **Electrophoresis:** Principle Structural components Applications **Chromatography:** Principle and applications Adsorption Ion exchange Gel permeation , Affinity **Spectrophotometer:** Principle,Applications,**pH meter,**Principle, Applications, **Microscopy,**Binocular Trinocular	15/02/2021
Presentation of Scientific Data	VI	Unit 2	**2.1 Types of presentation:** Oral Poster Written Audio-visual **Aids for presentation** **2.2 Preparing the manuscript** Guidelines for authors The IMRAD format **2.3 Title, Byline, Abstract and Summary, Keywords** **2.4 Introduction:** Defining the problem Literature survey Justification of study	25/03/2021
			2.5 Materials and Methods: Contents Sources Procedures Techniques Reproducibility Significance **2.6 Results:** Text How to present data Tables and illustrations Writing captions Labels and legends **2.7 Discussion:** Components and Sequence Analysis, Comparison and Integration of Data Likely Sources of Errors in Results	30/03/2021

EXTRA CURRICULAR ACTIVITY REPORT – 2020-21

1] Participated in 9th online informative Session on Basics of Intellectual Property Rights organized by Mumbai University and College Teachers Association (MUCTA) on 26th April 2020.

2] Participated in One Day workshop cum webinar on "E- content development and intellectual property Rights" Organized by the Regional Joint Director, Higher Education, Konkan Region Panvel and Sonopant Dandekar Arts, V.S.Apte Commerce and M.H.Mehta Science College, Palghar on 27th April 2020.

3] Participated in 10th online informative Session on "Role of Teacher in context with National Education Policy" organized by Mumbai University and College Teachers Association (MUCTA) on 30th April 2020.

4]Completed one week faculty Development programme on "Moodle Learning and Management System organized by Vivekanand College (Autonomous) Kolhapur, powered by IIT (Mumbai) from 25th - 30thApril 2020.

5] Participated in International Webinar on 'Role of WIPO in preservation of Intellectual property organized by Thakur College of Science and Commerce, Kandivali Mumbai on 2nd May 2020.

6] Participated in National Webinar on 'Role of WIPO in preservation of Intellectual property organized by Dayanand College of Law , Latur. On 8th May 2020.

7] Worked as a member of Organizing committee of one day multidisciplinary national conference on Impact of Technology in Pandemics on Society organized by IQAC and Department of Information Technology and Computer Sciecne on 6th February 2021

8] Worked as coordinator for Add - on Course **"Clinical Research Assistant"** started by department of Zoology.

9] Worked as **"Training and Placement Officer"**