

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	07.03.24	Determination of sugar in serum	12.03.24	PPT	? leave on 07.03.24 08.03.24 09.03.24
2	09.03.24	O-toluidine method	13.03.24	PPT	
3	11.03.24	diagnostic test for sugar in urine	13.03.24	PPT	
4	12.03.24	Benedict's test	14.03.24	ONLINE PPT	
5	13.03.24	Detection of diabetics	18.03.24	ONLINE PPT	
6	13.03.24	detection of cholesterol in urine	19.03.24	PPT	
7	14.03.24	detection of anaemia	20.03.24	PPT	
8	18.03.24	Estimation of haemoglobin	21.03.24	PPT	
9	19.03.24	Red cell count	22.03.24	PPT	
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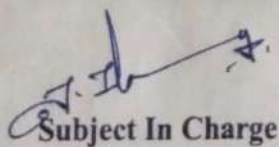
Textbooks:

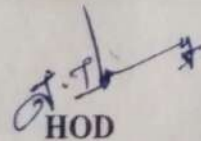
1. S. Chand & Company Ltd, Jayasree Ghosh, A Textbook of Pharmaceutical Chemistry
2. VN. Rajasakaran, Pharmaceutical Chemistry theory & Practical, 2017,

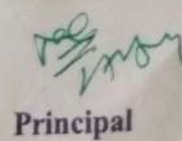
Reference:

1. ~~www~~ and written notes - com
2. G. Chatter, Pharmaceutical Chemistry, Volume 1, 1996.

M. Sharmika.
Academic Representative


Subject In Charge


HOD


Principal

LESSON PLAN & EXECUTION - UNIT - V

Stereo chemistry - II

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1		Geometrical isomerism:			
	22.10.23	E & Z Nomenclature.	22.10.23	PPT	
2	22.10.23	Configuration of geometrical isomers	22.10.23	PPT	
3	22.10.23	Spectroscopic methods.	22.10.23	PPT	
4	22.10.23	Configuration of cyclic & bicyclic ring system	22.10.23	PPT	
5	22.10.23	cis-Trans Nomenclature.	22.10.23	PPT	
6	26.10.23	Dynamic stereochemistry:			
	26.10.23	Quantitative Correlation.	24.10.23	PPT	
7	26.10.23	Curtin-Hammett			
	26.10.23	Principle	24.10.23	PPT	
8	27.10.23	Reactivity & mechanism of cyclic systems.	24.10.23	PPT	
9	27.10.23	Saponification of an ester.	24.10.23	PPT	
10	30.10.23	Neighbouring group Participation.	24.10.23	PPT	
11	30.10.23	Deamination of α -amino cyclohexano	24.10.23	PPT	
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Textbooks:

1. Text book of Organic Chemistry - Bhal & Arun Bhal
2. Text book of Organic Chemistry - R.D. Madhan.

Reference:

1. Stereochemistry - P.L. Karki
2. Stereochemistry of Organic Compounds D. NASIPURI

G. Sanyal
Academic Representative

Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	23.09.23	Photo electron transfer mechanism	23.09.23	ONLINE PPT	
2	25.09.23	Energy level diagram of solid acceptor	25.09.23	ONLINE PPT	
3	26.09.23	Energy level diagram of solid donor	26.09.23	BB	
4	05.10.23	Examples of Photo catalytic metal	05.10.23	BB	
5	09.10.23	Photo catalytic mixed metal oxides	09.10.23	BB	
6	09.10.23	Semiconductor supported metal oxides	09.10.23	BB	
7	10.10.23	Decomposition of organic pollutants	10.10.23	BB	
8	13.10.23	Experimental conversion & storage	13.10.23	PPT	
9	16.10.23	chemiluminescence's in coordinator comp ^{lex}	16.10.23	BB	
10	16.10.23	Triplet State & Franck condon State	16.10.23	BB	
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Textbooks:

1. R.K. Sharma, Inorganic Reaction Mechanism, New Delhi, 2007
2. Huheey J.E, 1983, Inorganic chemistry, 3rd Edition, Harper & Row Publisher

Reference:

1. Adamson, A.W and Fleischauser, P.D (1975) concepts of Inorganic photochemistry
2. Lever A.B.P (1984): Inorganic Electronic Spectroscopy of molecules.

For K. Nirmaladevi
Academic Representative

J. Phaneendra
Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	30.08.23	Sonication reactions	30.08.23	BB	
2	31.08.23	Barbier reaction	31.08.23	BB	
3	01.09.23	Williamson ether synthesis	01.09.23	BB	
4	04.09.23	Dozen reaction	04.09.23	BB	
5	05.09.23	Reformatsky reaction	05.09.23	BB	
6	07.09.23	Simmons-smith reaction	07.09.23	BB	
7	08.09.23	Strecker synthesis	08.09.23	BB	✓
8	11.09.23	Villmann Coupling reaction	11.09.23	BB	
9	12.09.23	Wurtz reaction	12.09.23	BB	
10	19.09.23	Bouveault reaction	19.09.23	BB	
11	20.09.23	Synthesis of Strecker and Smith	20.09.23	BB	
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Textbooks:

1. New Trends in Green Chemistry by Eric Lichtfouse
2. Environmental Benings by V.K. Ahluwalia

Reference:

1. P.T Anastal Green Chemistry
2. V.K. Ahluwalia Green Chemistry

M. Narmatha
Academic Representative

V. Priethy
Subject In Charge

J. Th
HOD

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	1.09.23	Colloids, types & preparation	1.09.23	BB	
2	4.09.23	Purification & stability of colloids	4.09.23	BB	
3	5.09.23	Properties of colloids, kinetic & optical properties.	4.09.23	BB	
4	7.09.23	Emulsions, types & preparation	7.9.23	Ppt online	
5	7.09.23	properties & Application, Donnan	7.9.23	BB	
6	08.09.23	Applications of Donnan membrane	08.09.23	BB	
7	11.09.23	Osmosis - introduction & types	11.09.23	BB	
8	14.09.23	Reverse osmosis & its uses	14.09.23	BB	
9	19.09.23	desalination process	19.09.23	BB	
10	22.09.23	Macromolecules - introduction	22.09.23	BB	
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Textbooks:

1. Finar I.L, Organic chemistry, Vol 1 & 2 (6th edition), 1996
2. Seyhan N. Ege, Organic chemistry (5th edition) New York, Houghton Mifflin

Reference:

1. Pine S.H., Organic chemistry (5th edition) Mcgraw-Hill Book company, 1987
2. Raghavan V.R, Material Science & Engineering, printice Hall India, 2001.

A. Gowthar
Academic Representative

I. [Signature]
Subject In Charge

J. [Signature]
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Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.03.24	Rutherford's & Bohr's model & theory	05.03.24	ONLINE PPT	OD
2	11.03.24	Sommerfeld's extension of Bohr's theory	11.03.24	BB	
3	12.03.24	Electromagnetic radiation	12.03.24	BB	
4	13.03.24	Dualism of light, black body radiation	13.03.24	BB	
5	14.03.24	Photoelectric and Compton effect	14.03.24	BB	
6	15.03.24	Blackbody Radiation & Planck's quantum theory	15.03.24	BB	
7	19.03.24	λ , ν and velocity - electromagnetic radiation	19.03.24	PPT	
8	20.03.24	De Broglie hypothesis, Heisenberg's principal	20.03.24	BB	
9	22.03.24	Davisson & Germer experiment	22.03.24	PPT	
10	25.03.24	Physical Significance of ψ and ψ^2	25.03.24	BB	
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Textbooks:

1. Herbert Goldstein, classical Mechanics, 2nd Edition, 2005

2. Kibble, T.W, 2004, classical Mechanics, Imperial college press. ISBN 1860944248

Reference:

1. <https://ncert.nic.in>

2. <https://unacademy.com>

S. Lina
Academic Representative

J. Phooi
Subject In Charge

J.
HOD

M.
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.03.24	Soap - Introduction, types	05.03.24	ONLINE PPT	OD
2	05.03.24	Manufacturing of Soaps	05.03.24	ONLINE PPT	
3	05.03.24	Detergents, cleansing of Soap	05.03.24	ONLINE PPT	
4	09.03.24	Biodegradability of surfactants	11.03.24	BB	
5	10.03.24	Production of Synthetic perfumes	12.03.24	BB	
6	12.03.24	Production of natural perfumes	12.03.24	BB	
7	12.03.24	Reaction of dyes	12.03.24	BB	
8	12.03.24	Application of dyes	13.03.24	BB	
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Textbooks:
 1. HandBook of Industrial chemistry, 1st Edition, Mohammad Farhat Ali
 2. E.G. Myers, A new approach to continuous Fats, 1983.

Reference:
 1. <http://chem.libretexts.org.com>
 2. <https://web.fscj.edu.com>

S. Santhiya.
 Academic Representative

J. Shae
 Subject In Charge

F.
 HOD

M.
 Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	07.10.23	Electronic transition in metal complexes	07.10.23	ONLINE PPT	
2	09.10.23	Charge transfer transitions	09.10.23	BB	
3	11.10.23	Photophysical & Photochemical processes	11.10.23	BB	
4	12.10.23	Unimolecular charge transfer of $\text{Cr}(\text{III})$	12.10.23	BB	
5	13.10.23	Mechanism of CTM	13.10.23	BB	
6	16.10.23	Photoinduction	16.10.23	BB	
7	17.10.23	Unimolecular charge transfer of $\text{Cr}(\text{III})$	17.10.23	ONLINE PPT	
8	18.10.23	Adamson's rules, Photoactive state	18.10.23	BB	
9	19.10.23	VC-model, Photophysics, Metal Metal bond	19.10.23	BB	
10	20.10.23	Emission & redox properties	20.10.23	ONLINE PPT	
11	21.10.23	Reincke's salt chemical actinometer	21.10.23	BB	
12					
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Textbooks:

1. G. Calasstone, Introduction to Electrochemistry; Maurice Press, 2008
2. L. Antropov, Theoretical Electrochemistry, University press, USA, 2001

Reference:

1. M. Gratzel & K. Kalayanasundaram, Kinetics & Catalysis, Academic press
2. Puri Sharma, Pathania; Principles of physical chemistry, 46th edition 1991

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Academic Representative

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Principal

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	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	29.09.23	Nitrosyl compound & Magnetic property	29.09.23	ONLINE PPT	
2	03.10.23	Nitrosyl chloride - Classification	03.10.23	ONLINE PPT	
3	03.10.23	Preparation, properties & uses	03.10.23	ONLINE PPT	
4	04.10.23	Sodium nitroprusside - Classification	04.10.23	BB	
5	04.10.23	Preparation, properties & uses	04.10.23	BB	
6	09.10.23	Magnetic properties & Susceptibility	09.10.23	BB	
7	11.10.23	Types of magnetism and applications	11.10.23	BB	
8	12.10.23	Dipole moment - determination	12.10.23	BB	
9	16.10.23	Applications of the study of molecules	16.10.23	BB	
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Textbooks:

- Textbooks:
1. R.D. Madan, Modern Inorganic chemistry, 2nd Edition, 2000
2. Gopalan R, Text book of Inorganic chemistry, 1991

Reference:

- Reference:
1. J.D. Lee, 'Concise Inorganic chemistry', 2nd edition, Sultan chand & Sons, 2000
 2. Gurte J.N and Amit Gurte, Chemical Kinetics, 5th Ed., Mittal K.K., 1979.

Academic Representative

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LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	30.08.23	Third law of thermodynamics	30.08.23	BB	
2	31.08.23	Neerst heat theorem and other stating third law	31.08.23	BB	
3	01.09.23	Thermodynamic quantities, apparent exceptions to third law	01.09.23	BB	
4	04.09.23	Partial molar Properties	04.09.23	BB	
5	05.09.23	Chemical Potential Thermodynamics of variable	05.09.23	BB	
6	07.09.23	Gibbs - Duhem equation	07.09.23	BB	
7	08.09.23	Application and determination of Partial molar	08.09.23	BB	
8	11.09.23	Thermodynamic Properties of real gases	11.09.23	BB	
9	12.09.23	Fugacity Concept	12.09.23	BB	
10	19.09.23	Activity coefficient	19.09.23	BB	
11	20.09.23	Phase rule and its systems	20.09.23	BB	
12	21.09.23	Solid liquid System	21.09.23	BB	
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Textbooks:

1. Chemistry of thermodynamics by Yvc Rao
2. Thermodynamics by Michael Boles

Reference:

1. A to Z Thermodynamics by Pierre Perrot
2. Atkins, P.W Physical Chemistry Oxford university.

M. Narmatha
Academic Representative

V. Preethy
Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	04.09.23	Introduction to ORD & CD	04.09.23		
2	07.09.23	& Mass Spectroscopy	07.09.23	BB	
3	08.09.23	ORD & CD - theory	08.09.23	BB	
4	11.09.23	Acid halo Ketone Rules.	11.09.23	BB	
5	12.09.23	C1 & FAB methods	12.09.23	BB	
6	19.09.23	Base peak - Metastable peak	12.09.23	BB	
7	20.09.23	Fragmentation Process	21.09.23	ABL	CL
8	21.09.23	MCI abberly rearrangement	22.09.23	ABL	OD
9	22.09.23	Parent Peak - meta stability	22.09.23	ABL	
10	22.09.23	General rules for fragmentation	22.09.23	BB	
11	26.09.23	Application of UV, IR & NMR	22.09.23	BB	
12		IR & its Instrumentation	26.09.23	BB	
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Textbooks:

1. A text book of Organic chemistry by Jonathan Clayden.
2. A text book of Spectroscopy by Francis A. Carey.

Reference:

1. P. S. Kalsi, Spectroscopy of Organic Compounds, 6th ed.,
2. Y. R. Sharma, Elementary Organic Spectroscopy - Principles & chemical applications.

For K. Nirmaladevi
Academic Representative

[Signature]
Subject In Charge

[Signature]
HOD

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Principal

Actual Date	Teaching aids	Remarks
08.08.23	BB	
18.08.23	BB	
28.08.23	BB	
08.09.23	BB	
18.09.23	BB	
28.09.23	BB	
08.10.23	BB	
18.10.23	BB	
28.10.23	BB	
08.11.23	BB	
18.11.23	BB	
28.11.23	BB	
08.12.23	BB	
18.12.23	BB	
28.12.23	BB	
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08.02.24	BB	
18.02.24	BB	
28.02.24	BB	

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	31.08.23	Electro gravimetry theory	31.08.23	BB	
2	01.09.23	Electrogravimetric analysis of Fe and Cu	01.09.23	BB	
3	04.09.23	Electrolytic separation of metals	04.09.23	BB	
4	05.09.23	Principle and separation	05.09.23	BB	
5	07.09.23	Electro deposition	07.09.23	BB	
6	08.09.23	Principle of overvoltage	08.09.23	BB	
7	11.09.23	Coulometry and Principle	11.09.23	BB	
8	12.09.23	Coulometry at Controlled Potential	12.09.23	BB	
9	19.09.23	Apparatus and technique	19.09.23	BB	
10	20.09.23	Separation of nickel and cobalt	20.09.23	BB	
11	21.09.23	Amperometry titrations	21.09.23	BB	
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11/9/23
Principal

Textbooks:

1. Elements of Analytical Chemistry "Gopalan"
2. Fundamentals of Analytical Chemistry by "James Holler"

Reference:

1. Instrumental methods "Douglas A.S Koog"
2. Fundamentals of Analytical Chemistry "C.C Sharma, B.K"

S. Ghosh
Academic Representative

V. Puri
Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION – UNIT -V

[illegible]

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	28/08/23	Definition of terms in the phase Derivation. ^{Component} Application to one system	28/08/23	BB	
2	4/09/23	Water, sulphur, super cooling, sublimation	04/09/23	BB	
3	5/09/23	Two component system solid-liquid	05/09/23	BB	
4	07/09/23	simple eutectic disilverisation of Lead (Pb)	07/09/23	BB	→ AV class
5	08/09/23	Compound formation with congruent ^(Ag-Zn)	08/09/23	BB	✓
6	11/09/23	And Incongruent melting point max	11/09/23	BB	
7	11/09/23	Solid solution (Ag-Au)	11/09/23	BB	
8	19/09/23	fractional crystallisation	19/09/23	BB	
9	20/09/23	freezing mixture, FeCl ₃ - H ₂ O system	20/09/23	BB	
10	22/09/23	CuSO ₄ - H ₂ O system.	22/09/23	BB	→ AV class
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Textbooks:

1. Physical chemistry - Atkins. P.W
2. Principles of Physical chemistry - Mahadevan. V
Reference:
1. Saravanan.

Reference:

1. Sangaranarayanan M.V - physical chemistry
2. Puri B.R, Sharma L.R - Principles of physical chemistry

S. J. [Signature]
Academic Representative

J. Vise
Subject In Charge

[Signature]
HOD

Principal

LESSON PLAN & EXECUTION UNIT V

[illegible]

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
		Oxidation & Reduction			
1	19.9.23	Oxidation: CeCl_4 , Chromyl chloride	19.9.23	PPT	
2	21.9.23	O_3 , DQ	21.9.23	BB	
3	23.9.23	Dioxanes, lead tetroacetate	23.9.23	PPT	
4	25.10.23	SeO_2 , DMSO	05.10.23	BB	
5	06.10.23	Catalytic chloride	06.10.23	BB	
6	10.10.23	Perm. Martin reagent	10.10.23	BB	
7	12.10.23	Redn with Wilkinson catalyst	12.10.23	BB	
8	13.10.23	Redn with LiAlH_4	13.10.23	BB	
9	13.10.23	Redn with NaBH_4	13.10.23	BB	
10	13.10.23	Leitman Butenyl alcohol	13.10.23	BB	
11	14.10.23	LiAlH_4	17.10.23	BB	
12	17.10.23	Hydroxines	17.10.23	BB	
13	17.10.23	Dioxanes	17.10.23	BB	
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Textbooks:

- Textbooks:
1. Text book of Organic Chemistry Arun Bhal
 2. Text book of Organic Chemistry P.D. Madhan.

Reference:

- Reference:
1. Organic Reaction mechanism AZhuralia
 2. Organic chemistry - Glyden.

Academic Representative

Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	28/08/23	Classification of Solids	28/08/23	BB	
2	29/08/23	Elements of Symmetry	29/08/23	BB	
3	01/09/23	basic seven crystal systems	01/09/23	BB	
4	04/09/23	X ray diffraction & Bragg's equation	04/09/23	BB	
5	05/09/23	determination of structural of NaCl by Debye Scherrer	05/09/23	BB	
6	07/09/23	Types of crystals	07/09/23	BB	
7	08/09/23	Limiting radius ratios.	08/09/23	BB	
8	11/09/23	Radius Ratio Rule	11/09/23	BB	
9	19/09/23	Shapes of Ionic crystal, NaCl	19/09/23	BB	
10	19/09/23	CSCL, ZNS, Intrinsic semiconductor	19/09/23	BB	
11	21/09/23	Intrinsic semiconductor	21/09/23	BB	
12	21/09/23	'n' & 'p' type semiconductors	21/09/23	BB	
13	22/09/23	Liquid crystals & Types, Application	22/09/23	BB	
14					
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Textbooks:

1. Bahl B.S and Bahl A., Advanced organic Chemistry

2. Glasstone S. & Lewis D. Elements of Physical Chemistry

Reference:

1. Glasstone S. & Lewis D. Elements of physical chemistry

2. Puri B.R Sharma I.R & Pathania N.S (2013) principles of Physical Chemistry.

P. Kaur
Academic Representative

J. Viswani
Subject In Charge

J. In
HOD

S. Reddy
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	07.9.23	Preparation of Shampoo	25.9.23	Bb	
2	25.9.23	Face powder	29.9.23	Bb	
3	29.9.23	Soap manufacturing of soap	04.10.23	Bb	red verified Date 04/10/23
4	04.10.23	Kettle process	09.10.23	Bb	
5	09.10.23	Hydrolysis process	12.10.23	Bb	red verified Date 13/10/23
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Textbooks:

1. Industrial chemistry (chemical engineering) by B.C. Sharma, 2016.
- 2.

Reference:

1. A Text book of pharmaceutical chemistry by Jayasree chack 2010. new Delhi.
- 2.

S. Soumi
Academic Representative

For
Pottery
Subject In Charge

For
Pottery
HOD

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Pottery
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5/9/23	Skewness, Kurtosis, Moments	19/9/23	BB	
2	7/9/23	test of skewness	19/9/23	BB	
3	11/9/23	characteristics of dispersion ^{skewness}	20/9/23	BB	
4	19/9/23	Measure of skewness objective	22/9/23	BB	
5	20/9/23	Karl Pearson's Coeff of skewness	22/9/23	BB	
6	22/9/23	Bocoley's co-eff of skewness	25/9/23	BB	
7	23/9/23	Bocoley's co-eff of skewness	28/9/23	BB	
8	27/9/23	Software's - ANOVA	27/9/23	BB	
9	3/10/23	SPSS	3/10/23	BB	
10	4/10/23	Sigma plot	4/10/23	BB	
11					
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Textbooks:

1. University prescribed only reference books.
- 2.

Reference:

1. Bernard Rosner. Fundamental of Biostatistics, 7th edition, cengage Learning
2. Arora PN and Malhan PK. Biostatistics, Himalaya publishing house, 2000

S. Devi

Academic Representative

M. Gayathri
11/10/23
Subject In Charge

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Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.9.23	Types of wastes	17.10.23	Bb	
2	07.9.23	Characterization of solid	18.10.23	Bb	
3	07.9.23	Liquid wastes	19.10.23	Bb	
4	12.9.23	Solid waste Treatment	19.10.23	Bb	Verified for Policy 20/10/23
5	13.9.23	Saccharification	25.10.23	Bb	
6	14.9.23	Gasification, composting	25.10.23	Bb	
7	15.9.23	Utilization of solid wastes	26.10.23	Bb	
8	20.9.23	Mushroom Production	26.10.23	Bb	Verified for Policy
9	21.9.23	Liquid waste Treatment	27.10.23	Bb	
10	22.9.23	Treatment methods primary, secondary	27.10.23	Bb	
11	25.9.23	Anaerobic methanogenesis, aerobic	28.10.23	Bb	
12	25.9.23	Trickling, activated sludge	28.10.23	Bb	
13	29.9.23	Oxidation pond	28.10.23	Bb	
14	30.9.23	Tertiary treatment	28.10.23	Bb	
15	03.10.23	Revision	28.10.23	Bb	Verified for Policy

Textbooks:

1. Christon J Hurst, manual of environmental microbiology 2nd Edition.

2.

Reference:

1. Agrawal A. a plant pathology, Elsevier Academic Press, New Delhi 2006.

2.

A. Vaishya
Academic Representative

P. S. Jeyaraj
Subject In Charge

For Policy
HOD

Principal
23/10/23

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	04/09/23	Types of media & its Definition.	11/09/23	BB	
2	05/09/23	Practicals - Observation - Gram staining.	12/09/23	BB	
3	07/09/23	Types of Pure culture - Definition.	13/09/23	BB	
4	08/09/23	Enrichment media & its Types.	14/09/23	BB	
5	11/09/23	Synthetic media & its Types.	19/09/23	BB	
6	12/09/23	Name of the different synthetic media	20/09/23	BB	
7	13/09/23	PC → Spread plate, Streak plate	21/09/23	BB	
8	14/09/23	Pour plate & Serial Dilution method	23/09/23	BB	
9					
10					
11					
12					
13					
14					
15					

Textbooks:

1. Pelczar MJ, Chan ECS and Kreig NR. 2009. microbiology 6th Edition
- 2.

Reference:

1. Rajan. S and Selvi christy. Experimental procedures in Lifescience.
- 2.

M. Nanyammal
Academic Representative

Forrest
Subject In Charge

D. J. J.
HOD

K. G. G.
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5.9.23	Introduction to animal Physiology	26.9.23	Black Board	
2	5.9.23	Growth and homeostasis	27.9.23	Black Board	
3	8.9.23	Animal Behaviour	3.10.23	Black Board	
4	11.9.23	Anatomy and Physiology	5.10.23	Black Board	
5	13.9.23	Comparative of Anatomy and Physiology	6.10.23	Black Board	Verified for 6/10/23
6	14.9.23	Animal reproductive biology	10.10.23	Black Board	
7	14.9.23	Animal reproductive biology	11.10.23	Black Board	
8	16.9.23	Endocrinology.	11.10.23	Black Board	Verified for 13/10/23
9	19.9.23	Biological importance - Presence of diverse animals	13.10.23	Black Board	
10	21.9.23	Revision	17.10.23	Black Board	
11	22.9.23	Test	18.10.23	Black Board	
12					
13					
14					
15					

Textbooks:

1. An introduction to embryology - B. Balinsky
- 2.

Reference:

1. Sciencedirect.com.
- 2.

S. Madhu mathy
Academic Representative

R.S. Suby
Subject In Charge

For: [Signature]
HOD

[Signature]
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5.9.23	Speaking : Short academic Presentation .	5.9.23	Black board	
2	5.9.23	Reading: Product profiles	5.9.23	Black board	
3	11.9.23	Writing: circular	11.9.23	Black board.	
4	14.9.23	Writing: Minutes of meeting	19.9.23	Black board	
5	14.9.23	Writing an introduction	3.10.23	Black board	
6	19.9.23	Paraphrasing	6.10.23	Black board	Verified P. The 16/10/23
7	22.9.23	Punctuation	11.10.23	Black board	
8	22.9.23	Punctuation Continued .	11.10.23	Black board	
9	27.9.23	Capitalization .	11.10.23	Black board	
10	3.10.23	Capitalization	18.10.23	Black board	
11	3.10.23	Revision .	18.10.23	Black board	Verified P. The 16/10/23
12					
13					
14					
15					

Textbooks:

1. Professional English book bdu website .
- 2.

Reference:

- 1.
- 2.

B. Sowmya .

Academic Representative

P. The

Subject In Charge

P. The

HOD

P. The
21/10/23

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	7.9.23	Classification of Transmission of Plant ^{virus}	25.9.23	Black board	
2	11.9.23	Transmission of Plant virus	27.9.23	Black board	
3	11.9.23	Symptoms of viral infection in plants	27.9.23	Black board	
4	12.9.23	Control of Plant viral disease	6.10.23	Black board	
5	12.9.23	TMV	7.10.23	Black board	
6	15.9.23	CAMV	7.10.23	Black board	Verified for 13/10/23
7	19.9.23	Diseases in Paddy & Cotton	7.10.23	Black board	
8	19.9.23	Diseases in tomato & sugarcane	12.10.23	Black board	Verified for 13/10/23
9	20.9.23	Cultivation of Plant Virus	12.10.23	Black board	Verified for 13/10/23
10	20.9.23	Vector control.	19.10.23	Black Board	Verified for 20/10/23
11	25.9.23	Revision	21.10.23	Black Board	Verified for 20/10/23
12	27.9.23	Test	21.10.23	Black Board	Verified for 20/10/23
13					Verified for 20/10/23
14					
15					

Textbooks:

1. A text Book of plant viral diseases - K.M Smith.
- 2.

Reference:

1. Instant notes in microbiology - Creame Cook & Killington
- 2.

J. Souza

Academic Representative

R. S. Suby

Subject In Charge

FOR. P. S. Suby

HOD

MAO 21/10/23

Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	7.9.23	Cell reproduction	7.9.23	Black board	
2	8.9.23	Cell reproduction Continued	8.9.23	Black board	
3	8.9.23	Mitosis	8.9.23	Black board	
4	11.9.23	Mitosis Continued	11.9.23	Black board	
5	13.9.23	Meiosis	26.9.23	Black board	
6	15.9.23	Meiosis Continued	27.9.23	Black board	
7	16.9.23	Origin of germ cells	4.10.23	Black board	Verified Rathe 6/10/23
8	16.9.23	Origin of germ cells Continued	5.10.23	Black board	
9	19.9.23	Process of Spermatogenesis	6.10.23	Black board	
10	21.9.23	Process of Spermatogenesis Contd	6.10.23	Black board	
11	25.9.23	Oogenesis	10.10.23	Black board	
12	26.9.23	Oogenesis Continued	12.10.23	Black board	
13	26.9.23	Types of eggs	13.10.23	Black board	
14	27.9.23	Types of eggs Continued.	13.10.23	Black board	Verified Rathe 13/10/23
15					

Textbooks:

1. E. C. Minkoff - Evolutionary biology.
- 2.

Reference:

1. Douglas J Futyma - Evolutionary biology.
- 2.

P. Krishnaveni.
Academic Representative

R. Rathe
Subject In Charge

R. Rathe
HOD 13/10/23

R. Rathe
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	7.9.23	Steps in the isolation and pathogens from an infected patient	25.9.23	BB	
2	8.9.23	Collection and transport of various clinical specimens for diagnosis	26.9.23	BB	
3	11.9.23	General method isolation and identification of bacterial	27.9.23	BB	
4	12.9.23	General method isolation and identification of fungal	4.10.23	BB	
5	13.9.23	General method isolation and identification of viral pathogen	5.10.23	BB	
6	15.9.23	General method isolation and identification of protozoan parasites	7.10.23	BB	
7	16.9.23	Revision	9.10.23	BB	
8					
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11					
12					
13					
14					
15					

Textbooks:

1. Rajan S. Medical Microbiology MJP Publisher Chennai-2007
- 2.

Reference:

1. Rajan S. and Selvaraj
- 2.

P. Krishnaveni
Academic Representative

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ket.
Subject In Charge

for
HOD

for
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5.9.23	Definition of mutations	3.10.23	Black Board	
2	7.9.23	Definition of Mutagenesis & mutants	3.10.23	Black Board	Verified For Principal 31/10/23
3	8.9.23	Types of mutations	7.10.23	Black Board	
4	11.9.23	Types of mutations	10.10.23	Black Board	
5	12.9.23	Physical mutagens	11.10.23	Black Board	
6	13.9.23	Chemical mutagens	12.10.23	Black Board	Verified For Principal 31/10/23
7	14.9.23	Transposons	13.10.23	Black Board	
8	15.9.23	Application of Mutations	17.10.23	Black Board	
9	16.9.23	Carcinogenicity testing	18.10.23	Black Board	
10	19.9.23	DNA repair mechanism	19.10.23	Black Board	
11	20.9.23	DNA repair mechanism	20.10.23	Black Board	Verified For Principal 21/10/23
12	21.9.23	Revision	21.10.23	Black Board	
13	22.9.23	Test	21.10.23	Black Board	Verified For Principal 21/10/23
14					
15					

Textbooks:

1. Essential of Molecular Biology - George M. Malacinski, Freifelder
- 2.

Reference:

1. DNA Repair and Mutagenesis - EC. Friedberg
- 2.

P. Krishnaveni

Academic Representative

R. S. Subh

Subject In Charge

For
Principal

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For
Principal

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LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.09.23	Types and molecular basis of mutation	26.09.23	Bb	
2	08.09.23	Agents of mutation	27.09.23	Bb	
3	11.09.23	Importance of mutation	03.10.23	Bb	
4	12.09.23	Evolution of species, Discover insertion sequences	05.10.23	Bb	Verified for 13/10/23
5	13.09.23	Complex and compound transposons	06.10.23	Bb	
6	14.09.23	T10, TS and retroposon, nomenclature	09.10.23	Bb	
7	16.09.23	insertion sequences mechanism, Transposons	10.10.23	Bb	
8	19.09.23	E.coli, Bacteriophage and yeast, isolation	11.10.23	Bb	
9	20.09.23	Analysis and detection methods mutants.	13.10.23	Bb	Verified for 13/10/23
10	21.09.23	uses of mutants	17.10.23	Bb	
11	22.09.23	importance of transposable elements	18.10.23	Bb	
12	26.09.23	horizontal transfer of genes and evolution	20.10.23	Bb	Verified for 20/10/23
13	27.09.23	mobile genetic	21.10.23	Bb	
14	29.09.23	elements - IS elements	25.10.23	Bb	
15	30.09.23	Revision.	26.10.23	Bb	Verified for 26/10/23

Textbooks:

1. Antony JF. modern genetic analysis interacting genes and genomes
2. 2nd edition 2002

Reference:

1. Friedberg EC. Walker GC. Siede W. DNA repairs and mutagenesis, ASM
2. Press 2005.

Pavithra.T.
Academic Representative

For
Principal
Subject In Charge

For
Principal
HOD

For
Principal
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5.9.23	Protein engineering and proteome analysis	22.9.23	BB	
2	7.9.23	Site directed mutagenesis conventional and PCR based method	25.9.23	BB	
3	11.9.23	Design and construction of novel protein and enzyme	27.9.23	BB	
4	13.9.23	Basic concept of enzyme engineering, kinetic properties of enzyme	3.10.23	BB	
5	14.9.23	Protein folding, protein sequencing, protein crystallization	4.10.23	BB	Verified Date 10/10/23
6	15.9.23	Data analysis mass spectrometry based proteome analysis	6.10.23	BB	
7	19.9.23	MALDI-TOF and LC-MS platform	10.10.23	BB	
8	21.9.23	Application of protein engineering	11.10.23	BB	
9	22.9.23	Example engineering proteins, protein arrays and their application	12.10.23	BB	Verified For Sign 13/10/23
10					
11					
12					
13					
14					
15					

Textbooks:

1. TA Brown (2012) Genomes 2nd edition Academic Press
- 2.

Reference:

1. Brown TA DNA analysis (2016) London
- 2.

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Academic Representative

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Subject In Charge

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HOD

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Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5.9.23	Production of various products	2.9.23	BB	
2	7.9.23	Organic acid, Amino acids	3.10.23	BB	
3	12.9.23	Antibiotic	4.10.23	BB	
4	13.9.23	Enzyme vitamin, Alcoholic beverages	7.10.23	BB	
5	14.9.23	Wine and beer, fermented foods	9.10.23	BB	
6	15.9.23	Bread, cheese and soya sauce	10.10.23	BB	
7	20.9.23	Recombinant products - insulin	11.10.23	BB	
8	21.9.23	Interferon and growth hormone	12.10.23	BB	
9	22.9.23	Fermentation products from natural waste	12.10.23	BB	
10	25.9.23	molasses, starch waste and cellulosic waste.			
11		Microbial transformation			
12		Steroids			
13		Non steroids compounds - Antibiotics			
14					
15					

Textbooks:

1. Casida LE Jr 1993 industrial microbiology 5th edition
- 2.

Reference:

1. Patel Abh 2005 industrial microbiology
- 2.

Paythia T
Academic Representative

For Prof.
Subject In Charge

for Prof.
HOD

16/10/23
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	08.09.23	Introduction to Plant pathology	26.9.23	Bb,	
2	11.09.23	Bacterial, viral and fungal plant pathogens morphological, Physiological changes with reference to disease establishment in plants.	27.9.23	Bb	
3	12.09.23	Role of Insect endomorphogenic	05.10.23	Bb	Verified Date
4	13.09.23	hematodes, viruses, Bacteria	06.10.23	Bb	
5	16.09.23	fungi and protozoa in biocontrol and their mode of action.	09.10.23	Bb	
6	19.09.23	Plant protection-phenolics, phytoalexins	10.10.23	Bb	Verified for posting 13/10/23
7	20.09.23	related compounds, Disadvantages of chemical pesticides.	13.10.23	Bb	
8	21.09.23	Microbial pesticides types, mechanism	17.10.23	Bb	Verified for posting 20/10/23
9	26.09.23	Advantages of limitation	20.10.23	Bb	
10	27.09.23	Brief conception of integrated	21.10.23	Bb	Verified for posting 20/10/23
11	29.09.23	pest management	25.10.23	Bb	
12	30.09.23	Integrated pest	26.10.23	Bb	
13	05.10.23	Disease Management	26.10.23	Bb	
14	06.10.23	Revision	26.10.23	Bb	Verified for posting
15	09.10.23	Test	26.10.23	Bb	

Textbooks:

1. Duncan massey, night horeen 2002, Environmental biotechnology Theories and Application.

Reference:

1. Subba Rao, N. J. 1995. Soil microorganisms and plant Growth, New Delhi.

Pavithra.T
Academic Representative

Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	24.2.24	Bioenergetics & strategy of metabolism	12.3.24	BB	
2	27.2.24	Flow of energy through biosphere	14.3.24	BB	
3	28.2.24	Strategy of energy production in cell	14.3.24	BB	
4	28.2.24	Oxidation & reduction reaction	18.3.24	BB	
5	1.3.24	Coupled reaction & group transfer	19.3.24	BB	
6	4.3.24	ATP Production	21.3.24	BB	
7	13.3.24	Structural features of biomolecule membrane, transport, free energy	22.3.24	BB	
8	14.3.24	Spontaneous reaction, ΔG , ΔG° , ΔG° & equilibrium	22.3.24	BB	
9	14.3.24	Basic concept of acid, bases, pH, buffer	26.3.24	BB	
10	18.3.24	Revision	26.3.24	BB	Verified Date
11	19.3.24	Test	27.3.24	BB	
12					
13					
14					
15					

Textbooks:

1. Biochemistry - John Wiley & Sons.
- 2.

Reference:

1. Biochemistry - Christopher K. Mathews.
- 2.

S. Madhuf
Academic Representative

R. S. Suby
Subject In Charge

D. S. S. S.
HOD

M. S. S. S.
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	7.3.24	Polymers : Addition polymerization, Condensation polymerization.	7.3.24	Black board	
2	8.3.24	Fibers: Natural fibers - Semi synthetic fibers.	8.3.24	Black board	
3	14.3.24	Pretreatment of fibers.	14.3.24	Black board	
4	15.3.24	Dyes and Dyeing process :	15.3.24	Black board	
5	22.3.24	Difference between dye and pigment	22.3.24	Black board	Verified Date 25/3/24
6	25.3.24	Witt's colour theory, classification of dyes based on application.	25.3.24	Black board	
7					
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Textbooks:

1. Alex Ramani - Food chemistry

2.

Reference:

1. K. Bhagavathisundari - Applied chemistry

2.

H.R.
Academic Representative

R. R. R.
25/3/24
Subject In Charge

R. R. R.
25/3/24
HOD

M.S.
26/3/24
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	06.03.24	Lipids metabolism	11.03.24	Black board	
2	06.03.24	Biosynthesis	13.03.24	Black board	
3	07.03.24	Fatty acids	13.03.24	Black board	
4	09.03.24	Cholesterol	14.03.24	Black board	
5	09.03.24	oxidation of fatty acids	14.03.24	Black board	
6	11.03.24	Anaerobic respiration	19.03.24	Black board	
7	13.03.24	nitrate, sulphate	21.03.24	Black board	
8	13.03.24	methane Respiration	21.03.24	Black board	
9	14.03.24	fermentations.	22.03.24	Black board	
10	18.03.24	alcoholic	26.03.24	Black board	
11	18.03.24	Propionic	26.03.24	Black board	
12	19.03.24	mixed acid	27.03.24	Black board	
13	21.03.24	lactic acid	02.04.24	Black board	
14	21.03.24	fermentation	02.04.24	Black board	
15	22.03.24	Revision	03.04.24	Black board	

Verified
R. The

Textbooks:

1. Dubey RC and Maheswari DL (2022). A Text of microbiology Revised edition.

2.

Reference:

1. Mead G, John W Foster and Michael P Spector (2022). microbial fourth edition, John Wiley Sons, The Physiology Publication new Delhi.

2.

S. Madhumathy
Academic Representative

Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	11.3.24	Listening - Listening to advertisement / news and	11.3.24	BB	
2		brief documentary films			
3	11.03.24	Speaking - Simple problems	11.3.24	BB	
4		and suggesting solutions			
5	11.03.24	Reading - Motivational stories on professional competence,	11.3.24	BB	
6		professional ethics and life skill			
7	27.3.24	Writing - Studying problem and	19.3.24	BB	Verified Ratha
8		finding solution			
9	27.3.24	Grammar - Make simple sentences	27.3.24	BB	
10	27.3.24	Vocabulary - Fixed expression	27.3.24	BB	
11					
12					
13					
14					
15					

Textbooks:

1. BDU website professional english
- 2.

Reference:

- 1.
- 2.

S. Madhumathi
Academic Representative

T. C. Karf
Subject In Charge

Ratha
HOD

13/4/24
Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	7.3.24	Control of Viruses - Requirement of an effective vaccine	7.3.24	Black board	
2	8.3.24	different ways of making vaccines	8.3.24	Black board	
3	9.3.24	types of Vaccine, Anti-viral drugs	11.3.24	Black board	
4	11.3.24	Theories on origin of Virus	11.3.24	Black board	
5	11.3.24	Evolution of new viruses, emerging virus	14.3.24	Black board	
6	14.3.24	Factors that drive viral emergence	14.3.24	Black board	
7	15.3.24	Viral cancer, transformation and oncogenesis	15.3.24	Black board	
8	18.3.24	Virus - Induced Cancer	18.3.24	Black board	
9	19.3.24	Avian leucosis retroviruses,	19.3.24	Black board	
10	19.3.24	Proviral DNA sequences,	19.3.24	Black board	
11	22.3.24	Proto-oncogenesis, DNA tumor viruses.	22.3.24	Black board	
12	25.3.24	the link between DNA Virus biology	25.3.24	Black board	
13	26.3.24	Transformation Virus.	25.3.24	Black board	
14					
15					

Textbooks:

1. Rajan S and Kumarasan - Virology
- 2.

Reference:

1. John Carter and Venelia Saunders - Virology.
- 2.

Rajitha
Academic Representative

P. S. S.
Subject In Charge

P. S. S.
HOD

U. S.
Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	5.3.24	Structure of protein,	8.3.24	Black board	
2	7.3.24	Classification - PDB, Swiss-PROT,	8.3.24	Black board	
3	8.3.24	SCOP, CATH.	11.3.24	Black board	
4	11.3.24	Protein Visualization tools	11.3.24	Black board	
5	12.3.24	RASMOL, Swiss PDB Viewer.	12.3.24	Black board	
6	14.3.24	Three Kinds of Protein structure	14.3.24	Black board	
7	15.3.24	Protein Sequence Analysis	15.3.24	Black board	
8	19.3.24	hydrophobicity profiles	19.3.24	Black board	
9	20.3.24	Ramachandran plot	20.3.24	Black board	Verified 26/3/24
10	22.3.24	Ramachandran plot continued	22.3.24	Black board	
11	25.3.24	Revision..	25.3.24	Black board	
12					
13					
14					
15					

Textbooks:

1. Computational biology - Scott .T. Kelley .

2.

Reference:

1. D.E. Krane, M.L. Raymer - Fundamental concept of bioinformatics

2.

Academic Representative

Subject In Charge

HOD

Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	22.2.24	Basics of complement proteins.	4.3.24	Black Board	
2	24.2.24	Different pathway of Complement activation	4.3.24	Black Board	
3	24.2.24	Classical & alternative	5.3.24	Black Board	
4	26.2.24	Hypersensitivity reaction & types	5.3.24	Black Board	
5	26.2.24	Autoimmune disorder.	12.3.24	Black Board	
6	28.2.24	Transplantation	12.3.24	Black Board	
7	28.2.24	Cancer Immunology	14.3.24	Black Board	
8	4.3.24	Defects of T cell, B cell & phagocytic cell	15.3.24	Black Board	
9	4.3.24	Immunity to tuberculosis	19.3.24	Black Board	
10	5.3.24	Immunity to malaria & HIV	19.3.24	Black Board	
11	5.3.24	Revision.	20.3.24	Black Board	
12	12.3.24	Test	20.3.24	Black Board	
13					
14					
15					

Verified
Date
25/3/24

Textbooks:

1. Essential of Microbiology - S Rajan
- 2.

Reference:

1. Immunology - David male
- 2.

M. Vaidya
Academic Representative

R.S. Subramanian
Subject In Charge

D. Raju
25/3/24
HOD

N. S. Srinivasan
24.3.24
Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.03.24	Food preservation.	11.03.24	Black board	
2	06.03.24	Principles of preservation	12.03.24	Black board	
3	06.03.24	methods of preservation	13.03.24	Black board	
4	08.03.24	Physical and chemical methods	13.03.24	Black board	
5	09.03.24	Food Sanitation	15.03.24	Black board	
6	11.03.24	Quality assurance	19.03.24	Black board	
7	12.03.24	microbiological quality	20.03.24	Black board	
8	13.03.24	Standard of food	21.03.24	Black board	
9	13.03.24	Government regulatory practices & policies	21.03.24	Black board	
10	15.03.24	FDA, EPA	25.03.24	Black board	
11	18.03.24	HACCP	26.03.24	Black board	
12	19.03.24	IST, HACCP	27.03.24	Black board	
13	20.03.24	Food Safety	28.03.24	Black board	
14	21.03.24	control of hazards	02.04.24	Black board	
15	21.03.24	Revision.	02.04.24	Black board	

Verified
Date 26/3/24
26/3/24

Textbooks:

1. Choudhary NL. Food processing and biotechnology Application, Oxford press, New Delhi 2014.
- 2.

Reference:

1. Adams MR and Meehan. Food microbiology, New age International (P) Ltd. New Delhi 2006.
- 2.

p. Gayathri
Academic Representative

P. S. S. S.
Subject In Charge

P. S. S. S.
HOB

M. S. S. S.
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	22.2.24	DNA Transfer technique physical method	28.2.24	Black Board	
2	23.2.24	Chemical method	29.2.24	Black Board	
3	24.2.24	Chemical method	1.3.24	Black Board	
4	26.2.24	Biological method	4.3.24	Black Board	
5	27.2.24	Selection & screening-direct method	5.3.24	Black Board	
6	28.2.24	Direct method	12.3.24	Black Board	
7	29.2.24	Indirect method	13.3.24	Black Board	
8	4.3.24	Indirect method	14.3.24	Black Board	
9	4.3.24	Revision	15.3.24	Black Board	Verified
10	15.3.24	Test	16.3.24	Black Board	Done 21/3/24
11					
12					
13					
14					
15					

Textbooks:

1. Gene cloning & DNA Analysis - T.A. Brown
- 2.

Reference:

1. Principle of Gene Manipulation & Genomics - Wiley Black well
- 2.

P. Goyal
Academic Representative

P. S. Sult
Subject In Charge

P. S. Sult
21/3/24
HOD

Nee
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.03.24	Microbial products	08.03.24	Black board	
2	06.03.24	Industrial value	08.03.24	Black board	
3	08.03.24	Raw materials, organisms.	08.03.24	Black board	
4	08.03.24	Industrial processes	12.03.24	Black board	
5	08.03.24	production of ethanol	13.03.24	Black board	
6	09.03.24	Vinegar	15.03.24	Black board	
7	12.03.24	Amalase, protease.	15.03.24	Black board	
8	13.03.24	Glutamic acid	15.03.24	Black board	
9	15.03.24	Recycling	20.03.24	Black board	
10	15.03.24	Disposal of industrial	21.03.24	Black board	
11	15.03.24	Industrial wastes	25.03.24	Black board	
12	18.03.24	wastes through microbes	25.03.24	Black board	
13	20.03.24	Test	25.03.24	Black board	
14	21.03.24	Test	26.03.24	Black board	
15	25.03.24	Test.	26.03.24	Black board	

Textbooks:

1. petal AM. Industrial microbiology, published by mac, millan media. Ltd, chennai - 2008.
- 2.

Reference:

1. Casida LE Jr. Industrial microbiology. 5th edition, Wiley Eastern Lt New Delhi 1993.
- 2.

R. Gayathri
Academic Representative

R. Jeyaraj
Subject In Charge

R. Jeyaraj
HOD

R. Jeyaraj
Principal

LESSON PLAN & EXECUTION - UNIT -V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	23.2.24	Production of polyclonal antibodies	26.2.24	BB	
2	23.2.24	Production of monoclonal antibodies	27.2.24	BB	
3	24.2.24	Active & passive immunization	28.2.24	BB	
4	24.2.24	Killed, attenuated, recombinant vaccines	1.3.24	BB	
5	26.2.24	DNA & peptide vaccine	1.3.24	BB	
6	27.2.24	Application of flow cytometry & Immunoelectron Microscopy.	4.3.24	BB	
7	28.2.24	Application of immunohistochemistry	5.3.24	BB	
8	1.3.24	Application of Bioplex tray	12.3.24	BB	
9	1.3.24	Revision	13.3.24	BB	
10	4.3.24	Test	14.3.24	BB	
11					
12					
13					
14					
15					

Verified
Date
26/3/24

Textbooks:

1. Immunology - David Male

2.

Reference:

1. Immunology - J. Kubly

2.

T. Parth
Academic Representative

R. S. S. S. S.
Subject In Charge

T. Parth
HOB

100
2613

Principal

LESSON PLAN & EXECUTION - UNIT - V

	Date Planned	Topic(s) to be covered	Actual Date	Teaching aids	Remarks
1	05.03.24	Small, large scale production.	08.03.24	Black board	
2	07.03.24	cost benefit analysis.	08.03.24	Black board	
3	07.03.24	marketing.	11.03.24	Black board	
4	08.03.24	Agar, <i>crematorium</i> , fermented foods.	12.03.24	Black board	
5	08.03.24	cheese, pickles	14.03.24	Black board	
6	11.03.24	probiotic food	14.03.24	Black board	
7	12.03.24	Mass production	15.03.24	Black board	
8	14.03.24	marketing compost.	15.03.24	Black board	
9	14.03.24	Vermicomposting.	19.03.24	Black board	
10	15.03.24	microbial compost	20.03.24	Black board	
11	15.03.24	Types of compost pits	22.03.24	Black board	
12	19.03.24	Laboratory	22.03.24	Black board	
13	20.03.24	Field application.	25.03.24	Black board	
14	22.03.24	cost-benefit analysis.	25.03.24	Black board	
15	22.03.24	Revision.	25.03.24	Black board	

Textbooks:

1. Naidu N. V. R (2008). Management and entrepreneurship. K. International Pvt. Ltd.
- 2.

Reference:

1. Nagendra J (2008). Entrepreneurship and management Sarguine technical publishers.
- 2.

Pavithra.T
Academic Representative

Pavithra.T
Subject In Charge

Pavithra.T
HOD

Pavithra.T
Principal