

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR
Chemistry Department

Class : M. Sc. IV Semester **LESSON PLAN (Theory) : 2024-25 Subject : Chemistry**
Course : CHE 525 (Spectroscopy-II),
Course : CHE 528 (Organic Synthesis),
Course : CHE 531 (Selected Topics in Organic Chemistry) &
Course : CHE534 (Drugs and Agrochemicals)

DATE	LECTURE	TEACHER'S NAME	CHAPTER	TOPIC
16/01/2025	1	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Alkenes	Geometrical isomerization, cyclic dimerization
16/01/2025	1	Dr. Ram Sahay	CHE-525, Unit-1: Mass Spectrometry	Measurement technique (EI, CI, FD and FAB)
17/01/2025	2	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of alcohols
17/01/2025	1	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of Sulphanilamide, sulphathiazole
18/01/2025	1	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Barton, Bayllis –Hillman reaction
18/01/2025	2	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	The spinning nuclei, Chemical shift and its measurement, factors affecting chemical shifts
20/01/2025	2	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Hoffmann-Löffler-Freytag reaction
20/01/2025	2	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of Sulphanilamide, sulphathiazole
21/01/2025	3	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Michael addition reaction
21/01/2025	3	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of sulphathalidine, sulphasuccidine
22/01/2025	3	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Concept of aromaticity, anti-aromaticity, non-aromaticity
22/01/2025	CT	Dr. Ram Sahay	CT	Class Teaching
23/01/2025	4	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Alkenes	Photo-oxidation reaction
23/01/2025	3	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	Anisotropic effect and shielding mechanism
24/01/2025	5	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of thiols 1,3-diols
24/01/2025	4	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of sulphaguanidine, sulphapyridine
25/01/2025	4	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Mitsunobu reaction
25/01/2025	4	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	Interpretation of protons spin-spin coupling, coupling constant
27/01/2025	5	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Nazarov, Mannich reaction
27/01/2025	5	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of sulphaguanidine, sulphapyridine
28/01/2025	6	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Julia & Peterson olefination reaction
28/01/2025	6	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of chloroquine, santoquine
29/01/2025	6	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Concept of aromaticity, anti-aromaticity, nonaromaticity

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29/01/2025	ME	Dr. Ram Sahay	ME	Monthly Evaluation
30/01/2025	7	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Alkenes	Reactions of 1,4 and 1,5- dienes (di-pi methane and related rearrangements)
30/01/2025	5	Dr. Ram Sahay	CHE-525, Unit-1: Mass Spectrometry	Measurement technique (EI, CI, FD and FAB)
31/01/2025	8	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of thiols 1,3-diols
31/01/2025	7	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of chloroquine, santoquine
01/02/2025	7	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Julia & Peterson olefination reaction
01/02/2025	6	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	Simple, virtual and complex coupling, Chemical and magnetic equivalence
04/02/2025	8	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Robinson annulations
04/02/2025	8	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of Pamaquine, Pentaquine
05/02/2025	9	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Non-aromaticity and homoaromaticity
05/02/2025	7	Dr. Ram Sahay	CHE-525, Unit-1: Mass Spectrometry	Various class of organic molecules, Mc Lafferty re-arrangement
06/02/2025	10	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Alkenes	Reactions of 1,4 and 1,5- dienes (di-pi methane and related rearrangements)
06/02/2025	CT	Mrs. Namrata Mishra	CT	Class Teaching
07/02/2025	11	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of 1,3-diols
07/02/2025	9	Mrs. Priyanka Mishra	CHE-534, Unit-1: Synthetic Drugs A	Synthesis and applications of Pamaquine, Pentaquine
08/02/2025	9	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Reformatsky reaction
08/02/2025	8	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	NMR studies of other nuclei e.g., ¹⁹ F and ³¹ P
10/02/2025	10	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Shapiro reaction
10/02/2025	10	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Introduction and applications of Nitrogen mustards
11/02/2025	11	Dr. Shiv Kumar Vernwal	CHE-528, Unit-1: Selective Named Reactions and Their Applications in Organic Synthesis	Stork-enamine reaction
11/02/2025	11	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Introduction and applications of Nitrogen mustards
13/02/2025	12	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Alkenes	Reactions of 1,4 and 1,5- dienes (di-pi methane and related rearrangements)
13/02/2025	9	Dr. Ram Sahay	CHE-525, Unit-1: Mass Spectrometry	Retro-Diels-Alder Fragmentation, nitrogen rule
14/02/2025	13	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of amines
14/02/2025	CT	Mrs. Priyanka Mishra	CT	Class Teaching
15/02/2025	12	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms SeO2
15/02/2025	10	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	Application in structural determination of simple organic and inorganic molecules
17/02/2025	13	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: Jones reagent
17/02/2025	12	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Introduction and applications antimetabolites in cancer chemotherapy

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18/02/2025	14	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: PCC
18/02/2025	13	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Introduction and applications antimetabolites in cancer chemotherapy
19/02/2025	14	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Alternant and non- alternant systems, Aromaticity in tropolone.
19/02/2025	11	Dr. Ram Sahay	CHE-525, Unit-1: Mass Spectrometry	Determination of molecular composition of organic compounds from mass spectra data
20/02/2025	15	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Aromatic compounds	Skeletal isomerization
20/02/2025	12	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹ H-NMR	Application in structural determination of simple organic and inorganic molecules
21/02/2025	16	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of amines
21/02/2025	ME	Mrs. Priyanka Mishra	ME	Monthly Evaluation
22/02/2025	15	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: PDC
22/02/2025	13	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹³ C-NMR	General introduction, peak assignments, chemical shift, ¹³ C-1H coupling
24/02/2025	16	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: Swern oxidation and iodobenzenediaetate
24/02/2025	14	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of promazine, Chloropromazine
25/02/2025	17	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: Swern oxidation and iodobenzenediaetate
25/02/2025	15	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of promazine, Chloropromazine
27/02/2025	17	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Aromatic compounds	Isomerization of disubstituted benzenes
27/02/2025	14	Dr. Ram Sahay	CHE-525, Unit-1: Mass Spectrometry	Determination of molecular composition of organic compounds from mass spectra data
28/02/2025	18	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carbonyls
28/02/2025	16	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of Chloropromazine , mepazine
01/03/2025	18	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: Swern oxidation and iodobenzenediaetate
01/03/2025	CT	Mrs. Namrata Mishra	CT	Class Teaching
03/03/2025	19	Dr. Shiv Kumar Vernwal	CHE-528, Unit-2: Oxidation	Applications and mechanisms: Swern oxidation and iodobenzenediaetate
03/03/2025	17	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of Para Aminosalicylic Acid (PAS)
04/03/2025	20	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with NaBH ₄
04/03/2025	18	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of Para Aminosalicylic Acid (PAS)
05/03/2025	19	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Aromaticity in azulene
05/03/2025	14	Dr. Ram Sahay	CHE-525, Unit-4: Electron Spin Resonance Spectroscopy	Basic principle, factor affecting value, isotropic and anisotropic hyperfine coupling constant, Application to organic free radical
06/03/2025	20	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Aromatic compounds	Isomerization of disubstituted benzenes
06/03/2025	15	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹³ C-NMR	Off-resonance Decoupling

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07/03/2025	21	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carbonyls
07/03/2025	19	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of Thiosemicarbazones and hydrazides
08/03/2025	21	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with NaBH ₄
08/03/2025	CT	Mrs. Namrata Mishra	CT	Class Teaching
10/03/2025	22	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with NaBH ₄
10/03/2025	20	Mrs. Priyanka Mishra	CHE-534, Unit-2: Synthetic Drugs B	Synthesis and applications of Thiosemicarbazones and hydrazides
11/03/2025	23	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with LAH
11/03/2025	21	Mrs. Priyanka Mishra	CHE-534, Unit-3: Antibiotics	Synthesis of penicillin-G
17/03/2025	24	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with DIBAL-H
17/03/2025	22	Mrs. Priyanka Mishra	CHE-534, Unit-3: Antibiotics	Synthesis of penicillin-G and penicillin-V
18/03/2025	25	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with DIBALH
18/03/2025	23	Mrs. Priyanka Mishra	CHE-534, Unit-3: Antibiotics	Synthesis of penicillin-V and chloramphenicol
19/03/2025	22	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Aromaticity in annulenes
19/03/2025	16	Dr. Ram Sahay	CHE-525, Unit-4: Electron Spin Resonance Spectroscopy	Basic principle, factor affecting value, isotropic and anisotropic hyperfine coupling constant, Application to Methyl free radical
20/03/2025	23	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Aromatic compounds	Photo-Fries rearrangement
20/03/2025	ME	Dr. Ram Sahay	ME	Monthly Evaluation
21/03/2025	24	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carboxyl groups in organic synthesis
21/03/2025	24	Mrs. Priyanka Mishra	CHE-534, Unit-3: Antibiotics	Synthesis of penicillin-V and chloramphenicol
22/03/2025	26	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with Birch reduction
22/03/2025	17	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹³ C-NMR	NOE and DEPT, 2D NMR
01/04/2025	27	Dr. Shiv Kumar Vernwal	CHE-528, Unit-3: Reduction	Scope, Mechanism and stereochemistry of reduction with Birch reduction
01/04/2025	25	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	A brief reference to natural insecticides, tobacco alkaloid
02/04/2025	25	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Aromaticity in ferrocene
02/04/2025	18	Dr. Ram Sahay	CHE-525, Unit-4: Electron Spin Resonance Spectroscopy	Basic principle, factor affecting value, isotropic and anisotropic hyperfine coupling constant, Application to organic Naphthalene free radical
03/04/2025	26	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Aromatic compounds	Photo-Fries rearrangement
03/04/2025	19	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹³ C-NMR	NOE and DEPT, 2D NMR, Application to simple organic and inorganic molecules
04/04/2025	27	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carboxyl groups in organic synthesis
04/04/2025	CT	Mrs. Priyanka Mishra	CT	Class Teaching
05/04/2025	28	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of Gillman

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05/04/2025	20	Mrs. Namrata Mishra	CHE-525, Unit-2: ^{13}C -NMR	NOE and DEPT, 2D NMR, Application to simple organic and inorganic molecules
07/04/2025	29	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of DCC
07/04/2025	26	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	A brief reference to natural insecticides, tobacco alkaloid
08/04/2025	30	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of DDQ
08/04/2025	27	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Pyrothrins and rotenoids
09/04/2025	28	Mrs. Priyanka Mishra	CHE- 531, Unit-1: Aromaticity	Aromaticity in fullerene
09/04/2025	21	Dr. Ram Sahay	CHE-525, Unit-4: Electron Spin Resonance Spectroscopy	Basic principle, factor affecting value, isotropic and anisotropic hyperfine coupling constant, Application to Benzene free radical
11/04/2025	29	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carboxyl groups in organic synthesis
11/04/2025	28	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Pyrothrins and rotenoids
12/04/2025	31	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of LDA
12/04/2025	CT	Mrs. Namrata Mishra	CT	Class Teaching
15/04/2025	32	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of Diazomethane
15/04/2025	29	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Organophosphorus insecticides, OMPA
16/04/2025	30	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of Pyrazole
16/04/2025	22	Dr. Ram Sahay	CHE-525, Unit-4: Electron Spin Resonance Spectroscopy	Basic principle, factor affecting value, isotropic and anisotropic hyperfine coupling constant, Application to Benzene free radical
17/04/2025	31	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Carbonyl Compounds	Reduction, inter and intramolecular addition (Patterno-Buchi)
17/04/2025	23	Dr. Ram Sahay	CHE-525, Unit-4: Electron Spin Resonance Spectroscopy	Basic principle, factor affecting value, isotropic and anisotropic hyperfine coupling constant, Application to CID NP
19/04/2025	33	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of Bu_3SnH
19/04/2025	24	Mrs. Namrata Mishra	CHE-525, Unit-2: ^{13}C -NMR	NOE and DEPT, 2D NMR, Application to simple organic and inorganic molecules
21/04/2025	34	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of 1,3-dithiane
21/04/2025	30	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Organophosphorus insecticides, OMPA
22/04/2025	35	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of Sulphur and phosphorous Ylides
22/04/2025	CT	Mrs. Priyanka Mishra	CT	Class Teaching
23/04/2025	32	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of imidazole
23/04/2025	25	Dr. Ram Sahay	CHE-525, Unit-5: Mossbauer Spectroscopy	Theory, Instrumentation, Applications of isomer shift
24/04/2025	33	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Carbonyl Compounds	Fragmentation (Norrish-I and Norrish-II)
24/04/2025	26	Mrs. Namrata Mishra	CHE-525, Unit-2: ^{13}C -NMR	NOE and DEPT, 2D NMR, Application to simple organic and inorganic molecules

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25/04/2025	34	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carboxyl groups in organic synthesis
25/04/2025	31	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Organophosphorus insecticides, OMPA
26/04/2025	36	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of Sulphur and phosphorous Ylides
26/04/2025	27	Mrs. Namrata Mishra	CHE-525, Unit-2: ¹³ C-NMR	NOE and DEPT, 2D NMR, Application to simple organic and inorganic molecules
28/04/2025	37	Dr. Shiv Kumar Vernwal	CHE-528, Unit-4: Reagents	Preparation and uses of Sulphur and phosphorous Ylides
28/04/2025	32	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Parathion, malathion
29/04/2025	38	Mrs. Namrata Mishra	CHE-528, Unit-5: Pd (0) and Pd (II) Complex in Organic Synthesis	Pd(0) and Pd(II) complex in organic synthesis: Heck reaction
29/04/2025	ME	Mrs. Priyanka Mishra	ME	Monthly Evaluation
30/04/2025	35	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of Thiazole
30/04/2025	28	Dr. Ram Sahay	CHE-525, Unit-5: Mossbauer Spectroscopy	Theory, Instrumentation, Applications of nuclear quadruple coupling
*Extra	29	Dr. Ram Sahay	CHE-525, Unit-5: Mossbauer Spectroscopy	Theory, Instrumentation, Applications of hyperfine interaction
	30	Dr. Ram Sahay	CHE-525, Unit-5: Mossbauer Spectroscopy	Problems related to Mossbauer Spectroscopy
	31	Dr. Ram Sahay	CHE-525, Unit-5: Mossbauer Spectroscopy	Problems related to Mossbauer Spectroscopy
	39	Mrs. Namrata Mishra	CHE-528, Unit-5: Pd (0) and Pd (II) Complex in Organic Synthesis	Pd(0) and Pd(II) complex in organic synthesis: Heck reaction
	40	Mrs. Namrata Mishra	CHE-528, Unit-5: Pd (0) and Pd (II) Complex in Organic Synthesis	Suzuki reaction
	41	Mrs. Namrata Mishra	CHE-528, Unit-5: Pd (0) and Pd (II) Complex in Organic Synthesis	Stille reaction
	42	Mrs. Namrata Mishra	CHE-528, Unit-5: Pd (0) and Pd (II) Complex in Organic Synthesis	Sonogashira reaction
	36	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of Iso-thiazole
	37	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of Pyrazine
	38	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of Pyrimidine
	39	Mrs. Priyanka Mishra	CHE- 531, Unit-3: Heterocycles	Chemistry of Pyridaze
	40	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Carbonyl Compounds	Fragmentation (Norrish-I and Norrish-II)
	41	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Carbonyl Compounds	Reaction of saturated acyclic, cyclic and unsaturated carbonyl Compounds
	42	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carboxyl groups in organic synthesis
	43	Mrs. Namrata Mishra	CHE-531, Unit-2: Protection and Deprotection of Groups	Principle of protection and deprotection of carboxyl groups in organic synthesis
	44	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Carbonyl Compounds	Reaction of saturated acyclic, cyclic and unsaturated carbonyl compounds
	45	Dr. Shiv Kumar Vernwal	CHE-531, Unit-5: Photochemistry of Carbonyl Compounds	Reaction of saturated acyclic, cyclic and unsaturated carbonyl Compounds
	33	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Halogenated insecticides

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	34	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	Halogenated alkanes, gammexane
	35	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	DDT and important analogs (DFDT, DMDT, DDD)
	36	Mrs. Priyanka Mishra	CHE-534, Unit-4: Insecticides	DDT and important analogs (DFDT, DMDT, DDD)
	37	Mrs. Priyanka Mishra	CHE-534, Unit-5 (a) Fungicides	Synthesis and applications of Halogenated phenols and quinones
	38	Mrs. Priyanka Mishra	CHE-534, Unit-5 (a) Fungicides	Synthesis and applications of dithiocarbamates
	39	Mrs. Priyanka Mishra	CHE-534, Unit-5 (a) Fungicides	Synthesis and applications of Zineb, Maneb, Ferbam
	40	Mrs. Priyanka Mishra	CHE-534, Unit-5 (a) Fungicides	Synthesis and applications of Zineb, Maneb, Ferbam
	41	Mrs. Priyanka Mishra	CHE-534, Unit-5 (b) Herbicides	Synthesis and applications of 2,4-D and related compounds
	42	Mrs. Priyanka Mishra	CHE-534, Unit-5 (b) Herbicides	Synthesis and applications of 2,4-D and related compounds
	43	Mrs. Priyanka Mishra	CHE-534, Unit-5 (b) Herbicides	Synthesis and applications of substituted ureas and carbamates
