

# GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

## DEPARTMENT OF MECHANICAL ENGINEERING

### LESSONPLAN CUM PROGRESS REPORT

SUBJECT: ENGINEERING CHEMISTRY				SEMESTER:2 <sup>nd</sup>			BRANCH:MECHANICAL ENGINEERING		
LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	BOOK NAME	WEB REFERENCE IF ANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	1	1	PHYSICAL CHEMISTRY: CHAPTER-1: ATOMIC STRUCTURE: Fundamental particles (Electron, Proton, & Neutron definition, mass and charge)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 33-40	<a href="https://www.youtube.com/live/leYoBCJERITl?si=TkVvBTgiH80Tu8en">https://www.youtube.com/live/leYoBCJERITl?si=TkVvBTgiH80Tu8en</a>	1-Introduction to EC.- 5min 2-Prerequisite for EC- PPT/Smart Board-10min 3-Syllabus & CO discussion-10 min 4-Lecturer-35 min	09/01/24		
2	1	2	Rutherford's Atomic model (postulates and failure)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 38-39 & 44	<a href="https://www.youtube.com/live/sWogwePrauQ?si=1zYfRc3dVYBzimXA">https://www.youtube.com/live/sWogwePrauQ?si=1zYfRc3dVYBzimXA</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	10/01/24		
3	1	2	Atomic mass and mass number	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 60	<a href="https://youtu.be/Px_ amh8dOEs?si=AKGt-4-Autwnh8Ts">https://youtu.be/Px_ amh8dOEs?si=AKGt-4-Autwnh8Ts</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	11/01/24		
4	1	2	Definition, example and properties of Isotopes, isobars and isotones	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 61	<a href="https://youtu.be/YKcEER_XOqA?si=0WIRF7WCMI_2scqz">https://youtu.be/YKcEER_XOqA?si=0WIRF7WCMI_2scqz</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	16/01/24		
5	1	2	Bohr's Atomic model ( Postulates only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 44-45	<a href="https://youtu.be/PPszdtlS5GIs?si=oRjHzt7qzORfjI0d">https://youtu.be/PPszdtlS5GIs?si=oRjHzt7qzORfjI0d</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	17/01/24		
6	1	2	Bohr-Bury scheme and Aufbau's principle	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 47 & 52-53	<a href="https://youtu.be/whN9RnY8Lfo?si=BVh1qfS2EBrGQi7D">https://youtu.be/whN9RnY8Lfo?si=BVh1qfS2EBrGQi7D</a> <a href="https://youtu.be/EqDefoo1brc?si=80jUdOwA_XNgg3fq">https://youtu.be/EqDefoo1brc?si=80jUdOwA_XNgg3fq</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	18/01/24		
7	1	2	Hund's rule, Electronic configuration (up to atomic no 30)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 53-57	<a href="https://youtu.be/EqDefoo1brc?si=80jUdOwA_XNgg3fq">https://youtu.be/EqDefoo1brc?si=80jUdOwA_XNgg3fq</a> <a href="https://youtu.be/GSXR8chD0jQ?si=Gz_UmBQJPmgQacbu">https://youtu.be/GSXR8chD0jQ?si=Gz_UmBQJPmgQacbu</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	22/01/24		

8	1	1	CHAPTER-2: CHEMICAL BONDING: Definition , Types Electrovalent bond with examples (NaCl, MgCl <sub>2</sub> )	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 71-75	<a href="https://youtu.be/XlnX-hAuAp4?si=9d_koaBuFfuLUCWG">https://youtu.be/XlnX-hAuAp4?si=9d_koaBuFfuLUCWG</a> <a href="https://youtu.be/W30szAUOV_c?si=ZTsBDsiLVK_Jdc0Z">https://youtu.be/W30szAUOV_c?si=ZTsBDsiLVK_Jdc0Z</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	24/01/24		
9	1	2	Covalent bond with example (H <sub>2</sub> ,Cl <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> , H <sub>2</sub> O, CH <sub>4</sub> , NH <sub>3</sub> )	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 76-77	<a href="https://youtu.be/W30szAUOV_c?si=ZTsBDsiLVK_Jdc0Z">https://youtu.be/W30szAUOV_c?si=ZTsBDsiLVK_Jdc0Z</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	25/01/24		
10	1	2	Coordinate bond with examples (NH <sub>4</sub> <sup>+</sup> , SO <sub>2</sub> )	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 78-79	<a href="https://youtu.be/pHTvAeOCwLQ?si=wJZbtRVIBv1Acoam">https://youtu.be/pHTvAeOCwLQ?si=wJZbtRVIBv1Acoam</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	29/01/24		
11	1	1	CHAPTER-3: ACID BASE THEORY: Concept of Arrhenius theory and Bronsted- Lowry theory for acid and base with examples ( Postulates and limitations only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra  Chapter No.- 1 Page No.- 85-89	<a href="https://youtu.be/Ygnf17WkaDI?si=ldhd4Zx00OOD3tp0">https://youtu.be/Ygnf17WkaDI?si=ldhd4Zx00OOD3tp0</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	30/01/24		
12	1	1	Lewis theory for acid and base with examples ( Postulates and limitations only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 89- 91	<a href="https://youtu.be/u14ikRPwCkg?si=xlPplgO7-fGAePVs">https://youtu.be/u14ikRPwCkg?si=xlPplgO7-fGAePVs</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	31/01/24		
13	1	1	Definition of Salt, Types of salts ( Normal, acidic, basic, double, complex and mixed salts, definitions with 2 examples from each).	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 93	<a href="https://youtu.be/BABq_PUEacQ?si=evAj42LDL9dOaw21">https://youtu.be/BABq_PUEacQ?si=evAj42LDL9dOaw21</a> <a href="https://youtu.be/YeuChWZTK8o?si=QMHLFv-TVkKJJ00n">https://youtu.be/YeuChWZTK8o?si=QMHLFv-TVkKJJ00n</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	01/02/24		
14	1	2	CHAPTER-4: SOLUTIONS: Definitions of atomic weight, molecular weight, Equivalent weight. Determination of equivalent weight of Acid, Base and Salt.	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 65	<a href="https://youtu.be/EFL0WEwHKdU?si=yve2nFNawHSdqRXF">https://youtu.be/EFL0WEwHKdU?si=yve2nFNawHSdqRXF</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	05/02/24		
15	1	2	Modes of expression of the concentrations ( Molarity , Normality & Molality) with Simple Problems	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 98-104	<a href="https://youtu.be/Tj7mzTc0l5A?si=USUGOwMIF65WSUD">https://youtu.be/Tj7mzTc0l5A?si=USUGOwMIF65WSUD</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	06/02/24		
16	1	2	pH of solution ( definition with simple numericals ) Importance of pH in industry ( sugar, textile, paper industries only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 108-111	<a href="https://youtu.be/0JJLJncz76k?si=0R-nJhklXnCzOXvV">https://youtu.be/0JJLJncz76k?si=0R-nJhklXnCzOXvV</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	07/02/24		
17	2	1	CHAPTER-5: ELECTROCHEMISTRY: Definition and types ( Strong & weak) of Electrolytes with example	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 122-125	<a href="https://youtu.be/mRlydjcgUjE?si=aT_BWH-N0_IKBWuF">https://youtu.be/mRlydjcgUjE?si=aT_BWH-N0_IKBWuF</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment- 10 min	08/02/24		

18	2	2	Electrolysis ( Principle & process) with example of NaCl (fused and aqueous solution)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 125-127	<a href="https://youtu.be/9fFe94ybFZ8?si=I5ER1FbWQmVJ6t-R">https://youtu.be/9fFe94ybFZ8?si=I5ER1FbWQmVJ6t-R</a> <a href="https://youtu.be/CECjYuQkM7A?si=ytrlc43qFTmleZpL">https://youtu.be/CECjYuQkM7A?si=ytrlc43qFTmleZpL</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	12/02/24		
19	2	2	Faraday's 1 <sup>st</sup> law of Electrolysis ( Statement, mathematical expression and Simple numerical)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 130-131	<a href="https://youtu.be/GGa8aNaBFwk?si=PvoxYTazd8s0SuxD">https://youtu.be/GGa8aNaBFwk?si=PvoxYTazd8s0SuxD</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	13/02/24		
20	2	2	Faraday's 2 <sup>nd</sup> law of Electrolysis ( Statement, mathematical expression and Simple numerical) Industrial application of Electrolysis- Electroplating (Zinc only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 132-'136	<a href="https://youtu.be/GGa8aNaBFwk?si=PvoxYTazd8s0SuxD">https://youtu.be/GGa8aNaBFwk?si=PvoxYTazd8s0SuxD</a> <a href="https://youtu.be/VMnK-wR2sFE?si=Z0pw0qcy-7qdsGB-">https://youtu.be/VMnK-wR2sFE?si=Z0pw0qcy-7qdsGB-</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	15/02/24		
21	2	2	CHAPTER 6 : CORROSION: Definition of Corrosion, Types of Corrosion- Atmospheric Corrosion. Mechanism of rusting of Iron only.	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 142-143	<a href="https://youtu.be/1BBqsZRegdg?si=BxT9Z4EKKATLy6N5">https://youtu.be/1BBqsZRegdg?si=BxT9Z4EKKATLy6N5</a> <a href="https://byjus.com/chemistry/rusting-iron-prevention/#:~:text=The%20oxygen%20atoms%20bond%20with%20iron%20atoms%2C,iron%2C%20accompanied%20by%20a%20loss%20of%20electrons.">https://byjus.com/chemistry/rusting-iron-prevention/#:~:text=The%20oxygen%20atoms%20bond%20with%20iron%20atoms%2C,iron%2C%20accompanied%20by%20a%20loss%20of%20electrons.</a> <a href="https://byjus.com/jeecorrosion/">https://byjus.com/jeecorrosion/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	19/02/24		
22	2	2	Waterline corrosion. Protection from Corrosion by (i) Alloying and (ii) Galvanization.	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 1 Page No.- 144-147	<a href="https://youtu.be/D1cDv44uZUs?si=VKxzfnpzVzk2eufQ">https://youtu.be/D1cDv44uZUs?si=VKxzfnpzVzk2eufQ</a> <a href="https://youtu.be/L-7LBswH13M?si=nlsYUSYWsDAAfZP">https://youtu.be/L-7LBswH13M?si=nlsYUSYWsDAAfZP</a> <a href="https://byjus.com/question-answer/methods-for-prevention-of-corrosion/">https://byjus.com/question-answer/methods-for-prevention-of-corrosion/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	20/02/24		
23	3	1	<u>INORGANIC CHEMISTRY:</u> Chapter 7 : Metallurgy: Definition of Mineral, ores , gangue with example. Distinction between Ores And Minerals	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 153-154	<a href="https://byjus.com/question-answer/define-the-following-terms-i-mineral-ii-ore-iii-gangue/">https://byjus.com/question-answer/define-the-following-terms-i-mineral-ii-ore-iii-gangue/</a> <a href="https://youtu.be/1kDjEwLnDAU?si=fFpLS_6opXLIpe6Z">https://youtu.be/1kDjEwLnDAU?si=fFpLS_6opXLIpe6Z</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	21/02/24		
24	3	2	General methods of extraction of metals, i) Ore Dressing ii) Concentration ( Gravity separation, magnetic separation)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 157-158	<a href="https://youtu.be/77AE87blOmA?si=7TQIOjsFWCLpbilt">https://youtu.be/77AE87blOmA?si=7TQIOjsFWCLpbilt</a> <a href="https://www.toppr.com/guides/chemistry/general-principles-and-processes-of-isolation-of-elements/concentration-of-ores/">https://www.toppr.com/guides/chemistry/general-principles-and-processes-of-isolation-of-elements/concentration-of-ores/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	22/02/24		
25	3	1	ii) Concentration (Froth floatation & leaching)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 158-159	<a href="https://www.toppr.com/guides/chemistry/general-principles-and-processes-of-isolation-of-elements/concentration-of-ores/">https://www.toppr.com/guides/chemistry/general-principles-and-processes-of-isolation-of-elements/concentration-of-ores/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	26/02/24		

26	3	1	iii) Oxidation (Calcinations, Roasting )	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 159-160	<a href="https://youtu.be/6zms3Q4RxN8?si=uyApdEOT8cszJGfs">https://youtu.be/6zms3Q4RxN8?si=uyApdEOT8cszJGfs</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	27/02/24		
27	3	1	iv) Reduction (Smelting, Definition & examples of flux, slag)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 160-163	<a href="https://youtu.be/77AE87blOmA?si=ZbpfWCp1hm4JKfp9">https://youtu.be/77AE87blOmA?si=ZbpfWCp1hm4JKfp9</a> <a href="https://youtu.be/6zms3Q4RxN8?si=uyApdEOT8cszJGfs">https://youtu.be/6zms3Q4RxN8?si=uyApdEOT8cszJGfs</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	28/02/24		
28	3	1	v) Refining of the metal ( Electro refining & Distillation only)3w	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 163-164	<a href="https://youtu.be/CWuclR5pUMg?si=LZyBw30mxNzjhZJ0">https://youtu.be/CWuclR5pUMg?si=LZyBw30mxNzjhZJ0</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	29/02/24		
29	3	1	CHAPTER 8 : ALLOYS: Definition of alloy. Types of alloys ( Ferro, Non Ferro & Amalgam) with example	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 168-170	<a href="https://scienly.com/what-are-alloys/">https://scienly.com/what-are-alloys/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	04/03/24		
30	3	1	Composition and uses of Brass, Bronze, Alnico, Duralumin	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 2 Page No.- 170	<a href="https://scienly.com/what-are-alloys/">https://scienly.com/what-are-alloys/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	06/03/24		
31	4	1	ORGANIC CHEMISTRY: CHAPTER 9 : HYDROCARBONS : Saturated and Unsaturated Hydrocarbons ( Definition with example)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 200-208	<a href="https://youtu.be/e319ZtuRjDo?s=i=AqVaOcn68RwFkIMI">https://youtu.be/e319ZtuRjDo?s=i=AqVaOcn68RwFkIMI</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	07/03/24		
32	4	1	Aliphatic and Aromatic Hydrocarbons ( Huckel's rule only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 196	<a href="https://byjus.com/chemistry/aromatic-compounds/#:~:text=Huckel's%20rule%20states%20that%20only,the%20plane%20of%20the%20molecule.">https://byjus.com/chemistry/aromatic-compounds/#:~:text=Huckel's%20rule%20states%20that%20only,the%20plane%20of%20the%20molecule.</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	11/03/24		
33	4	2	Difference between Aliphatic and aromatic hydrocarbons	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 199	<a href="https://www.vedantu.com/question-answer/state-the-difference-between-aliphatic-and-class-11-chemistry-cbse-5fd79a56c0af9500a2b88218">https://www.vedantu.com/question-answer/state-the-difference-between-aliphatic-and-class-11-chemistry-cbse-5fd79a56c0af9500a2b88218</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	12/03/24		
34	4	2	IUPAC system of nomenclature of Alkane ( up to 6 carbons ) with bond line notation	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 187	<a href="https://youtu.be/uwRN8YZX56w?si=Mo9aOXFtkzUaskUB">https://youtu.be/uwRN8YZX56w?si=Mo9aOXFtkzUaskUB</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	13/03/24		

35	4	2	IUPAC system of nomenclature of Alkene ( up to 6 carbons ) with bond line notation	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 188-189	<a href="https://youtu.be/nrtxcibpYml?si=llpjaFvTtpbk6dqV">https://youtu.be/nrtxcibpYml?si=llpjaFvTtpbk6dqV</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	14/03/24		
36	4	2	IUPAC system of nomenclature of Alkyne ( up to 6 carbons ) with bond line notation	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 189	<a href="https://youtu.be/w8PD4fAwg5c?si=LhcNZVBd5pYv5mJN">https://youtu.be/w8PD4fAwg5c?si=LhcNZVBd5pYv5mJN</a> <a href="https://youtu.be/ARFo1nVvrOU?si=byJGV0fYJjEbX3xt">https://youtu.be/ARFo1nVvrOU?si=byJGV0fYJjEbX3xt</a> <a href="https://byjus.com/chemistry/introduction-to-alkyne/">https://byjus.com/chemistry/introduction-to-alkyne/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	18/03/24		
37	4	2	IUPAC system of nomenclature of alkyl halide ( up to 6 carbons ) with bond line notation	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 190	<a href="https://testbook.com/chemistry/haloalkanes-haloarenes">https://testbook.com/chemistry/haloalkanes-haloarenes</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	19/03/24		
38	4	2	IUPAC system of nomenclature of alcohol ( up to 6 carbons ) with bond line notation	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.- 187	<a href="https://byjus.com/chemistry/nomenclature-of-alcohols/">https://byjus.com/chemistry/nomenclature-of-alcohols/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	20/03/24		
39	4	3	Uses of some common aromatic compounds ( Benzene, Toluene and BHC) in daily life.	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.-211	<a href="https://byjus.com/chemistry/uses-of-benzene/">https://byjus.com/chemistry/uses-of-benzene/</a> <a href="https://labproinc.com/blogs/chemicals-and-solvents/top-5-uses-for-toluene?srltid=AfmBQorT8fs78f2mfzbAXyWAZrsNGgtLh6g7JLrxZStPnwavU6tzDvmk">https://labproinc.com/blogs/chemicals-and-solvents/top-5-uses-for-toluene?srltid=AfmBQorT8fs78f2mfzbAXyWAZrsNGgtLh6g7JLrxZStPnwavU6tzDvmk</a> <a href="https://byjus.com/chemistry/benzene-hexachloride/">https://byjus.com/chemistry/benzene-hexachloride/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	21/03/24		
40	4	3	Uses of some common aromatic compounds (Naphthalene, Anthracene and Benzoic acid) in daily life.	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 3 Page No.-211	<a href="https://www.vedantu.com/chemistry/naphthalene">https://www.vedantu.com/chemistry/naphthalene</a> <a href="https://www.vedantu.com/chemistry/anthracene">https://www.vedantu.com/chemistry/anthracene</a> <a href="https://www.vedantu.com/chemistry/benzoic-acid-uses">https://www.vedantu.com/chemistry/benzoic-acid-uses</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	27/03/24		
41	5	1	INDUSTRIAL CHEMISTRY CHAPTER 10 : WATER TREATMENT : Sources of water	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 221-224	<a href="https://youtu.be/jvQn9lMI79M?si=q5oITW9TQb4v7ma-">https://youtu.be/jvQn9lMI79M?si=q5oITW9TQb4v7ma-</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	28/03/24		
42	5	2	Soft water, Hard water, Hardness	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 224	<a href="https://youtu.be/vCWjRJ14I3I?si=EGb6G6pX0cbg8QyH">https://youtu.be/vCWjRJ14I3I?si=EGb6G6pX0cbg8QyH</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	02/04/24		

43	5	2	Types of Hardness (temporary or carbonate and permanent or non-carbonate)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 225	<a href="https://youtu.be/jM_2mP_1NgI?si=H7JsE3c3gZz64hp0">https://youtu.be/jM_2mP_1NgI?si=H7JsE3c3gZz64hp0</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	03/04/24		
44	5	3	Removal of hardness by lime soda method ( hot lime —Principle, process & advantages )	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 234-237	<a href="https://youtu.be/TD6aoAsTKY0?si=Oo-iFyJoaoEFaB-e">https://youtu.be/TD6aoAsTKY0?si=Oo-iFyJoaoEFaB-e</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	04/04/24		
45	5	3	Removal of hardness by lime soda method ( cold lime —Principle, process & advantages ) Advantages of Hot lime over cold lime process.	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 234-237	<a href="https://youtu.be/LKhlvS-QNSQ?si=k6VMNeGYmSJkxhrW">https://youtu.be/LKhlvS-QNSQ?si=k6VMNeGYmSJkxhrW</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	08/04/24		
46	5	3	Organic Ion exchange method ( principle, process, and regeneration of exhausted resins)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 231-232	<a href="https://youtu.be/cE7vSnVRc2o?si=n-yx9kZMhtzG7se2">https://youtu.be/cE7vSnVRc2o?si=n-yx9kZMhtzG7se2</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	09/04/24		
47	5	1	CHAPTER 11 : LUBRICANTS: Definition of lubricant, Types ( solid, liquid and semisolid with examples only )	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 242-245	<a href="https://youtu.be/Kuj2X6ncPbc?si=AYR0as_wZDmKTCyO">https://youtu.be/Kuj2X6ncPbc?si=AYR0as_wZDmKTCyO</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	10/04/24		
48	5	3	specific uses of lubricants ( Graphite, Oils, Grease), Purpose of lubrication	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 242-245	<a href="https://youtu.be/Kuj2X6ncPbc?si=y6c1qj0ejwwYTWY-">https://youtu.be/Kuj2X6ncPbc?si=y6c1qj0ejwwYTWY-</a> <a href="https://youtu.be/-G5Z-ZmXTXg?si=eS2CfZJeDKRvrlO">https://youtu.be/-G5Z-ZmXTXg?si=eS2CfZJeDKRvrlO</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	15/04/24		
49	5	2	CHAPTER 12 : FUEL: Definition and classification of fuel	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 250	<a href="https://youtu.be/svXe-svCEho?si=BaTKBUePz0NTdDd">https://youtu.be/svXe-svCEho?si=BaTKBUePz0NTdDd</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	16/04/24		
50	5	1	Definition of calorific value of fuel, Choice of good fuel	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 250-252	<a href="https://youtu.be/Gbb_eWhmwiY?si=e-al7Y-JRsYur12d">https://youtu.be/Gbb_eWhmwiY?si=e-al7Y-JRsYur12d</a> <a href="https://youtu.be/svXe-svCEho?si=BaTKBUePz0NTdDd">https://youtu.be/svXe-svCEho?si=BaTKBUePz0NTdDd</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	18/04/24		
51	5	3	Liquid: Diesel, Petrol, and Kerosene (Composition and uses)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 257-259	<a href="https://www.econology.info/fuels-petroleum/">https://www.econology.info/fuels-petroleum/</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	22/04/24		

52	5	3	Gaseous: Producer gas and Water gas (Composition and uses)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 261-264	<a href="https://youtu.be/wmPjdK3F2IE?si=e2NawK3XL2LQ7ctf">https://youtu.be/wmPjdK3F2IE?si=e2NawK3XL2LQ7ctf</a> <a href="https://youtu.be/gpF9lt28c1Q?si=06tB-GofnAQ7mlg7">https://youtu.be/gpF9lt28c1Q?si=06tB-GofnAQ7mlg7</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	23/04/24		
53	5	3	Elementary idea about LPG, CNG and coal gas (Composition and uses only)	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Page No.- 264-266	<a href="https://youtu.be/wmPjdK3F2IE?si=e2NawK3XL2LQ7ctf">https://youtu.be/wmPjdK3F2IE?si=e2NawK3XL2LQ7ctf</a> <a href="https://youtu.be/gpF9lt28c1Q?si=06tB-GofnAQ7mlg7">https://youtu.be/gpF9lt28c1Q?si=06tB-GofnAQ7mlg7</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	24/04/24		
54	5	1	CHAPTER 13 : POLYMER: Definition of Monomer, Polymer, Homo-polymer, Co-polymer	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 279-280	<a href="https://youtu.be/C0rArqoqsBE?si=LXS1IWWGofXfgTGn">https://youtu.be/C0rArqoqsBE?si=LXS1IWWGofXfgTGn</a> <a href="https://youtu.be/CUculXMKAAU?si=hjXwyPo_LadcJ-SR">https://youtu.be/CUculXMKAAU?si=hjXwyPo_LadcJ-SR</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	25/04/24		
55	5	2	Definition of Degree of polymerization. Difference between Thermosetting and Thermoplastic	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 280-281	<a href="https://youtu.be/C0rArqoqsBE?si=LXS1IWWGofXfgTGn">https://youtu.be/C0rArqoqsBE?si=LXS1IWWGofXfgTGn</a> <a href="https://youtu.be/JAcOrPZzbmw?si=I37F4Tqpx8LK8PKd">https://youtu.be/JAcOrPZzbmw?si=I37F4Tqpx8LK8PKd</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	29/04/24		
56	5	3	Composition and uses of Polythene	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 281-282	<a href="https://youtu.be/urZ6S0ZJHk8?si=i_iigg-WNMaKceoQ">https://youtu.be/urZ6S0ZJHk8?si=i_iigg-WNMaKceoQ</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	30/04/24		
57	5	3	Composition and uses of Poly-Vinyl Chloride and Bakelite	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.-4 Page No.- 282-284	<a href="https://youtu.be/PdAEBSHW5fo?si=FJTxf0w-IFViors">https://youtu.be/PdAEBSHW5fo?si=FJTxf0w-IFViors</a> <a href="https://youtu.be/MtQ6LmklbS0?si=UPimn1pc0DW5w5yC">https://youtu.be/MtQ6LmklbS0?si=UPimn1pc0DW5w5yC</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	01/05/24		
58	5	2	Definition of Elastomer ( Rubber). Natural Rubber (it's draw backs ). Vulcanisation of Rubber. Advantages of Vulcanised rubber over raw rubber	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra Chapter No.- 4 Page No.- 285-287	<a href="https://youtu.be/iZTUCumkhHw?si=TtMHU8oSKxjSWmYn">https://youtu.be/iZTUCumkhHw?si=TtMHU8oSKxjSWmYn</a> <a href="https://youtu.be/5vuLTSGVBtU?si=KRh5QTi2KZKpUjgu">https://youtu.be/5vuLTSGVBtU?si=KRh5QTi2KZKpUjgu</a> <a href="https://youtu.be/Xp0aWBEssjQ?si=aL1xRDleXFdTzMX2">https://youtu.be/Xp0aWBEssjQ?si=aL1xRDleXFdTzMX2</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	02/05/24		
59	5	3	CHAPTER 14: CHEMICALS IN AGRICULTURE: Pesticides: Insecticides, herbicides, fungicides- Examples and uses	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra	<a href="https://youtu.be/MAIfQJIFIS0?si=YfQLC_MQrSY-kVSp">https://youtu.be/MAIfQJIFIS0?si=YfQLC_MQrSY-kVSp</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	06/05/24		



60	5	3	Bio Fertilizers: Definition, examples and uses	Text book of Engineering Chemistry by Y.R. Sharma and Pravati Mitra	<a href="https://byjus.com/biology/biofertilizers/#:~:text=Biofertilizers%20are%20substance%20that%20contains.%2Dgreen%20algae%2C%20and%20bacteria.">https://byjus.com/biology/biofertilizers/#:~:text=Biofertilizers%20are%20substance%20that%20contains.%2Dgreen%20algae%2C%20and%20bacteria.</a>	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	07/05/24		
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Principal

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