

**Fr. Conceicao Rodrigues College of Engineering,
Bandra (West)
Lesson Plan (AI & DS)
SEM-I (2022-23)**

| Module | Contents | Hours | Planned Date | Executed Date | Content Delivery Method | Remarks |
|---|--|------------|------------------------|---------------|-------------------------|------------|
| | | | | | | |
| 6 | • Basic introduction and Basic formulae | 09 | 14/11/2022 | 14/11/2022 | Chalk & Board | |
| | • Equivalent Mass Calculation and Water (Introduction) | | 24/11/2022 | 24/11/2022 | Chalk & Board | |
| | • Hardness concept, Temporary and Permanent Hardness | | 25/11/2022 | 25/11/2022 | Chalk & Board | |
| | • Numericals Based on Temporary and Permanent Hardness | | 28/11/2022 | 29/11/2022 | Chalk & Board | |
| | • EDTA introduction | | 29/11/2022 | 02/12/2022 | Chalk & Board | |
| | • Determination of Hardness | | 02/12/2022 | 05/12/2022 | Chalk & Board | |
| | • EDTA based Numericals | | 05/12/2022 | 06/12/2022 | Chalk & Board | |
| | • Ion Exchange Method | | 06/12/2022 | 09/12/2022 | Chalk & Board | |
| | • Reverse Osmosis, Ultrafiltration (Water Completed) | | 09/12/2022 | 12/12/2022 | Chalk & Board | |
| | 5 | | • Polymer Introduction | 06 | 12/12/2022 | 13/12/2022 |
| • PMMA, Kevlar preparation | | 13/12/2022 | 16/12/2022 | | Chalk & Board | |
| • Moulding and types, Numericals based on Number average and Weight average | | 16/12/2022 | 26/12/2022 | | Chalk & Board | |
| • Injection, Compression Moulding | | 26/12/2022 | 27/12/2022 | | Chalk & Board | |
| • Transfer and Extrusion moulding completed | | 27/12/2022 | 30/12/2022 | | Chalk & Board | |
| • Polymer completed | | 30/12/2022 | 02/01/2023 | | Chalk & Board | |
| 4 | • Phase Rule introduction | 05 | 02/01/2023 | 03/01/2023 | Chalk & Board | |
| | • Phase, Component and Degrees of freedom | | 03/01/2023 | 04/01/2023 | Chalk & Board | |
| | • Water (One Component System) | | 04/01/2023 | 06/01/2023 | Chalk & Board | |
| | • Pb-Ag (Two Component System) | | 06/01/2023 | 07/01/2023 | Chalk & Board | |
| | • Merits and Demerits | | 07/01/2023 | 09/01/2023 | Chalk & Board | |
| 2 | • Aromaticity | 04 | 09/01/2023 | 10/01/2023 | Chalk & Board | |
| | • Criteria for Aromaticity | | 10/01/2023 | 13/01/2023 | Chalk & Board | |
| | • Structure of Benzene | | 13/01/2023 | 16/01/2023 | Chalk & Board | |
| | • Structure of Pyrrole (Aromaticity) | | 16/01/2023 | 17/01/2023 | Chalk & Board | |

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|---|--|--|------------|------------|---------------|--|
| | completed) | | | | | |
| 1 | • Atomic structure (Introduction) | | 17/01/2023 | 20/01/2023 | Chalk & Board | |
| | • Shape of s, p & d-orbitals | | 20/01/2023 | 23/01/2023 | Chalk & Board | |
| | • M.O.Diagram for Oxygen | | 23/01/2023 | 24/01/2023 | Chalk & Board | |
| | • M.O.Diagram for CO & NO (Atomic structure completed) | | 24/01/2023 | 02/02/2023 | Chalk & Board | |
| | • M.O.Diagram for CO & NO (Atomic structure completed) | | 02/02/2023 | | Chalk & Board | |