

| Course code: Course Title | Course Structure | | | Pre-Requisite |
|---|-------------------------|----------|----------|----------------------|
| EP106: Engineering Physics Workshop-II | L | T | P | NIL |
| | 1 | 0 | 2 | |

Course Objective: The main objective of the course is to provide opportunity for an individual to develop and strengthen the necessary skills for Glass Industry.

| S. No | Course Outcomes (CO) |
|--------------|---|
| CO1 | Describe fundamentals of glass science. |
| CO2 | Demonstrate synthesis of various glasses. |
| CO3 | Categorize synthesized glasses. |
| CO4 | Measure physical properties and other required parameters. |
| CO5 | Validate the potentiality of the synthesized glass in Industry. |

| S. No | Contents |
|---------------|--|
| UNIT 1 | Fundamentals of Glass Science & Technology. |
| UNIT 2 | Synthesis and physical properties of Glass. |
| UNIT 3 | Characterization of the synthesized Glass. |
| UNIT 4 | GLASS-Handling, Measurements, Storage, Installation covering Tempered/Insulated/Laminated, Window Doors Sliders – uPVC, Window Doors Sliders – Aluminum. |
| UNIT 5 | Applications of Glass in Industry. |

| REFERENCES | | |
|-------------------|---|--------------------------------------|
| S.No. | Name of Books/Authors/Publishers | Year of Publication / Reprint |
| 1 | Introduction to Glass Science and Technology; J. E. Shelby, Royal Society of Chemistry. | 2020 |
| 2 | Fundamentals of Inorganic Glasses; A. K. Varshneya, J. C. Mauro, Elsevier, 3rd edition. | 2019 |

