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| **LESSON PLAN SESSION 2023-2024**  **SUBJECT-**  **Sem.** | | | |
| **S.No** | **WEEK** | **TOPIC** | **REMARK** |
| 1 | 24.07.2023-29.07.2023 | **Unit-I**  Crystalline and glassy forms, liquid crystals. |  |
| 2 | 01.08.2023-05.08.2023 | Crystal structure, periodicity, lattice and basis, |  |
| 3 | 07.08.2023-12.08.2023 | Crystal translational vectors and axes. Unit cell and primitive cell, Winger Seitz primitive Cell, |  |
| 4 | 14.08.2023-19.08.2023 | symmetry operations for a two dimensional crystal |  |
| 5 | 21.08.2023-26.08.2023 | Bravais lattices in two dimension |  |
| 6 | 28.08.2023-31.08.2023 | Bravais lattices in three dimensions |  |
| 7 | 04.09.2023-09.09.2023 | **Unit-II**  Crystal planes and Miller indices-ray diffraction, Bragg's Law and experimental x-ray diffraction methods, K-space. |  |
| 8 | 11.09.2023-16.09.2023 | Interplanner spacing |  |
| 9 | 18.09.2023-23.09.2023 | Crystal structures of Zinc sulphide,  Sodium Chloride |  |
| 10 | 25.09.2023-30.09.2023 | Crystal structures of diamond |  |
| 11 | 02.10.2023-07.10.2023 | **Unit-III**  Reciprocal lattice and its physical significance, reciprocal lattice vectors, |  |
| 12 | 09.10.2023-14.10.2023 | reciprocal lattice to a  simple cubic lattice, |  |
| 13 | 16.10.2023-21.10.2023 | reciprocal lattice to a b.c.c and f.c.c.lattice |  |
| 14 | 23.10.2023-28.10.2023 | Specific heat : Specific heat of solids |  |
| 15 | 01.11.2023-04.11.2023 | Einstein's theory of specific heat, |  |
| 16 | 06.11.2023-09.11.2023 | Debye model of specific  heat of solids. |  |
| 17 | 10.11.2023-16.11.2023 | Diwali Break |  |
| 18 | 20.11.2023-24.11.2023 | Revision |  |
| 19 | 25.11.2023-23.12.2023 | Examinations |  |
| 20 | 24.12.2023-31.12.2023 | Winter Vacation |  |