

UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING, ROURKELA

LESSON PLAN

SESSION: 2022-2023

DEPARTMENT OF CERAMIC WHITE WARE

.SUBJECT CODE: TH-3

NAME OF THE SUBJECT: CERAMIC WHITE WARE

BRANCH: CERAMIC TECHNOLOGY

SEMESTER: DIPLOMA 5TH SEM

NUMBER OF CLASS ALLOTED PER WEEK: 4

TOTAL PERIODS ALLOTED TO THE SUBJECT ACCORDING TO STEVT:60

NAME OF THE FACULTY: RAMESH CHANDRA PRUSTY

| Week/Date | Lecture | Topic to be covered | Remarks |
|--|-----------------|--|---------|
| 1 st week 15/09/2022 | 1 st | 1.1 Explain the term white ware and its classification. | |
| To 17/09/2022 | 2 nd | 1.2 White ware industries in India. | |
| | 3 rd | 1.3 International scenario in manufacturing of white ware | |
| 2 nd week 19/09/2022 To 24/09/2022 | 1 st | 1.4 Selection of principal raw materials for use in white ware and heavy clay ware industries. | |
| | 2 nd | 1.5 Explain the qualities and Characteristics of the raw material used for white ware making. | |

| | 3 rd | 1.6 Describe the influence of raw materials on white | |
|----------------------------------|-----------------|---|--|
| | | ware and heavy clay ware products making. | |
| | 4 th | 2.1 Materials processing. | |
| 3 rd week 26/09/31 | 1 st | 2.2 Fabrication: Slip casting, plastic shaping, semidry | |
| To | 2 nd | & dry press. 2.3 Drying operation | |
| 01/10/2022 | | 2.5 Styling operation | |
| 4 th week | 1 st | 2.4 Glazing operation | |
| 03/10/22 TO | | | |
| 08/10/22 | 2 nd | 2.5 Firing operation | |
| | | 2.6 Explain the remedies for green rejection. | |
| 5 th week | 1 st | 2.7 Describe the causes of drying & firing defects and | |
| 10/10/22 To | | their remedies. | |
| 15/10/22 | 2 nd | Revision chapter 2.0 | |
| | 3 rd | a) Fine earthen ware | |
| | 4 th | b) Common earthen ware glaze tile (floor & wall) | |
| 6 th week 17/10/22 | 1 st | c) Earthenware sanitary ware | |
| To 22/10/22 | 2 nd | a) Fine stoneware. | |
| | 3 rd | b) Coarse stoneware | |
| | 4th | c) Sanitary wares | |
| 7 th week 24/10/22 | 1 st | d) Vitreous china sanitary wares | |
| To 29/10/22 | 2 nd | e) Chemical stone ware for chemical Engineering. | |
| 8 th week 31/10/22 | 1 ST | f) Acid-resistant bricks and tiles | |
| TO 05/11/22 | 2 ND | a) Hard Porcelain | |
| | 3 RD | b) Soft Porcelain | |
| 9 th week 07/11/22 | 1 ST | c) Chemical Porcelain | |

| TO 12/11/22 | 2 ND | d) Electrical Porcelain | |
|---|-----------------|--|--|
| | 3 RD | e) Bone Chine and fritted China. | |
| 10 th week 14/11/22 TO | 1 st | a) Common Building bricks | |
| 26/11/22 | 2 nd | b) Paving brick. | |
| | 3 rd | c) Face brick | |
| 11 th week 28/11/22 TO | 1 ST | d) Common Building tiles e) Salt glaze stone ware pipes | |
| 03/12/22 | 2 nd | Revision of chapter 3.0 | |
| 12 th week 05/12/22 | 1 ST | 4.1 Define glaze & classification of glaze | |
| TO 23/12/22 | 2 ND | 4.2 Various types of glaze. | |
| | 3 RD | 4.3 Raw materials and their influence on glaze. | |
| 13 th week | 1 ST | 4.4 Preparation of glaze. | |
| 02/01/23 TO | 2 ND | 4.5 Glaze frit & its preparation. | |
| 07/01/23 | 3 RD | 4.6 Glaze application & decoration. | |
| | 4 TH | 4.7 Glaze defects & their elimination. | |
| 14 th week 09/01/23 TO | 1 ST | 4.8 Glaze calculation. 4.9 Testing of glaze. | |
| 14/01/23 | 2 ND | Revision chapter 4.0 | |
| | 3 RD | 5.1Various types of plaster of Paris & their preparation | |
| | 4 TH | 5.2 Various types of plaster of pairs products. | |
| 15 th week 16/01/23 | 1 ST | 5.3 Quality of plaster of Paris for ceramic use. | |
| TO 17/01/23 | 2 ND | 5.4 Plaster of Paris mould for ceramic shaping. & Revision of chapter 5.0 | |