Syllabus for the subject

**of**

**ENGINEERING DRAWING**

(For 3rd & 4th semester)

**Under**

**CRAFTSMEN TRAINING SCHEME (CTS)**

For the trades of

**Under Group - A**

**Re-Designed in**

**2015**

**By**

**Government of India**

**Ministry of Skill Development & Entrepreneurship**

**Directorate General of Training**

**CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE**

**Block - EN - 81 SECTOR - V, SALT LAKE CITY, KOLKATA - 700 091**

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|  |  |  | **Annexure-I** |
|  | **SYLLABUS FOR ENGINEERING DRAWING** |  |  |
|  | **Code No. ED- 3rd Sem-Gr.A** |  |  |
|  | **CTS-SEMESTER-III** |  |  |
| **Topic** | **Engineering Drawing** | **Duration** |
| **No** |  |  |  |  |
| 1. | - Revision of first year topics. |  | 63 |  |
| 2. | - Machined components; concept of fillet & chamfer; surface finish |  |  |
|  | symbols. |  |  |  |
| 3. | - Screw thread, their standard forms as per BIS, external and internal |  |  |
|  | thread, conventions on the features for drawing as per BIS. |  |  |  |
| 4. | - Free hand Sketches for bolts, nuts, screws and other screwed members. |  |  |  |
| 5. | - Free hand Sketching of foundation bolts and types of washers. |  |  |  |
| 6. | - Standard rivet forms as per BIS (Six types). |  |  |  |
| 7. | - Riveted joints-Butt & Lap (Drawing one for each type). |  |  |  |
| 8. | - Orthogonal views of keys of different types |  |  |  |
| 9. | - Free hand Sketches for simple pipe, unions with simple pipe line |  |  |
|  | drawings. |  |  |  |
| 10. | - Concept of preparation of assembly drawing and detailing. Preparation |  |  |
|  | of simple assemblies & their details of trade related tools/job/exercises |  |  |
|  | with the dimensions from the given sample or models. |  |  |  |
| 11. | -Free hand sketch of trade related components / parts (viz., single tool |  |  |
|  | post for the lathe, etc.) |  |  |
|  |  |  |  |  |
| 12. | - Study of assembled views of Vee-blocks with clamps. |  |  |  |
| 13. | - Study of assembled views of shaft and pulley. |  |  |  |
| 14. | - Study of assembled views of bush bearing. |  |  |
|  |  |  |  |  |
| 15. | - Study of assembled views of a simple coupling. |  |  |
|  |  |  |  |  |
| 16. | - Free hand Sketching of different gear wheels and nomenclature. |  |  |  |
| 17. | **Revision** |  |  |

1. Examination

**SYLLABUS FOR ENGINEERING DRAWING**

**Code No. ED- 4thSem-Gr. A**

**CTS-SEMESTER-IV**

|  |  |  |
| --- | --- | --- |
| **Topic** | **Engineering Drawing** | **Duration** |
| **No** |  |  |
| 1. | - Free hand Details and assembly of simple bench vice. | 63 |
| 2. | - Reading of drawing. Simple exercises related to missing lines, |  |
|  | dimensions. How to make queries. |  |
| 3. | - Simple exercises relating missing symbols. |  |
|  | - Missing views |  |
| 4. | - Simple exercises related to missing section. |  |
| 5. | -Free hand sketching of different types of bearings and its |  |
|  | conventional representation. |  |
| 6. | - Free hand sketching of different gear wheels and |  |
|  | nomenclature/ Simple duct (for RAC). |  |
|  | Free hand sketch of Reciprocating compressor – open type (for |  |
|  | RAC) |  |
| 7. | - Solution of NCVT test. |  |
|  | - Simple exercises related to trade related symbols. |  |
|  | - Basic electrical and electronic symbols |  |
| 8. | - Study of drawing & Estimation of materials. |  |
| 9. | - Solution of NCVT test papers. |  |
| 10. | **Revision** |  |

1. Examination