## Lesson Plan

Name of the Faculty : Sh. Deepak Malhotra
Discipline : Civil Engg.
Semester : $1^{\text {st }}$
Subject : ENGINEERING GRAPHICS
Lesson Plan duration : 16 weeks (from 11.10.2022 to 27.01.2023)
Work load per week : Lecture - 00, Practical-02

| Week | Theory |  | Execution |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Lecture | Topic (Including assessment/test) | Date | Sign. |
| $1^{\text {st }}$ | $1^{\text {st }}$ | UNIT I <br> 1. Introduction to Engineering Drawing and Graphics <br> 1.1 Introduction to use and care of drawing instruments, drawing materials, layout and sizes of drawing sheets and drawing boards. <br> 1.2 Symbols and conventions- <br> a) Conventions of Engineering Materials, Sectional <br> Breaks and Conventional lines. <br> b) Civil Engineering Sanitary fitting symbols <br> c) Electrical fitting symbols for domestic interior installations. |  |  |
|  | $2^{\text {nd }}$ | 1.3 Geometrical construction-geometrical figures such as triangles, rectangles, circles, ellipses and curves, hexagons, pentagons bisecting a line and arc, division of line and circle with the help of drawing instruments. |  |  |
| $2^{\text {nd }}$ | $3^{\text {rd }}$ | 2. Technical Lettering of Alphabet and Numerals Definition and classification of lettering, Free hand (of height of $5,8,12 \mathrm{~mm}$ ) lettering and instrumental lettering (of height 20 to 35 mm ) : upper case and lower case, with suitable height to width ratio 7:4. |  |  |
|  | $4^{\text {th }}$ | instrumental lettering (of height 20 to 35 mm ) : single and double stroke, with suitable height to width ratio 7:4. |  |  |
| $3^{\text {rd }}$ | $5^{\text {th }}$ | instrumental lettering (of height 20 to 35 mm ) : vertical and inclined (Gothic lettering) at 75 degree to horizontal and with suitable height to width ratio 7:4. |  |  |
|  | $6^{\text {th }}$ | 3. Dimensioning <br> 3.1 Necessity of dimensioning, method and principles of dimensioning (mainly theoretical instructions). <br> 3.2 Dimensioning of overall sizes, circles, threaded holes, chamfered surfaces, angles, tapered surfaces, holes, equally spaced on P.C.D., countersunk holes, counter bored holes, cylindrical parts, narrow spaces and gaps, radii, curves and arches. |  |  |




