# UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA Academic Lesson Plan for 2nd Semester - 2023 (Summer) 

Name of teaching faculty: Miss Rojina Rout,
PTGF Lecturer (Civil)
Discipline/Deptt: Mathematics \& Science
Semester \& Branch: 2 ${ }^{\text {nd }}$ Sem, Electrical \& ETC Engg.
Subject (Practical): PR3A: Engineering Drawing
No. of periods per week: 6,
End semester Exam: 100 Marks, Total Marks: 150 Marks,

Total Periods: 90
Sessional: 50 Marks,

| Week | Date |  |  |  |
| :--- | :--- | :--- | :--- | :--- |


|  | 3 | 5.4 | Draw plane figure such as circle, Pentagon and hexagon. (perpendicular to one plane and inclined to other). |
| :---: | :---: | :---: | :---: |
| $6^{\text {th }}$ | 3 | 5.5 | 5.5 Draw projections of solids such as prism, cylinder. (with axis parallel to one reference plane and perpendicular to other reference plane). |
|  | 3 | 5.5 | Draw projections of cone, tetrahedron and pyramid in simple position (with axis parallel to one reference plane and perpendicular to other reference plane). |
| $7{ }^{\text {th }}$ | 3 | 6.1 | 6. SECTION \& DEVELOPMENTS <br> 6.1 Draw the sectional projection \& development of prism in simple position by a cutting plane perpendicular to one reference plane and inclined to other reference plane. |
|  | 3 | 6.1 | Cylinder |
| $8^{\text {th }}$ | 3 | 6.1 | Cone |
|  | 3 | 6.1 | Pyramid |
| 9th | 3 | 6.1 | Pyramid |
|  | 3 | 6.2 | 6.2 Draw true shape of the cutting sections. |
| $10^{\text {th }}$ | 3 | 6.2 | 6.2 Draw true shape of the cutting sections. |
|  | 3 | 7 | 7. ISOMETRIC PROJECTIONS <br> Draw isometric view \& Isometric projection of prism, pyramid with axis horizontal and vertical with construction of isometric scales. |
| $11^{\text {th }}$ | 3 | 7 | Draw isometric view \& Isometric projection of cone \& cylinder. |
|  | 3 | 8.1 | 8. BUILDING DRAWING <br> 8.1. Explain terms related to building drawing. |
| $12^{\text {th }}$ | 3 | 8.2 | 8.2. Draw plan |
|  | 3 | 8.2 | Elevation of single room building with verandah (Flat roof according to given line plan and specification). |
| $13^{\text {th }}$ | 3 | 8.2 | Elevation of single room building with verandah (Flat roof according to given line plan and specification). |
|  | 3 | 9.1 | 9. PRACTICES ON AUTO CAD <br> 9.1 Introduction-Settings, Limits etc. |
| $14^{\text {th }}$ | 3 | 9.2 | 9.2 Auto CAD commands- <br> Draw commands (Line, circle, are polygon, ellipse, rectangle). |
|  | 3 | 9.2 | Edit command, Dimension commands and Modify Commands for two dimensional drafting only. |
| $15^{\text {th }}$ | 3 | 9.3.1 | 9.3 Exercise for practice using Auto CAD. <br> 9.3.1 Orthographic projections of lines, planes sand solids as per chapter 5.0. |
|  | 3 | 9.3.2 | 9.3.2 Isometric projection as per Chapter 7.0. <br> (Note: Focus should be on Hands on Practice of student using AutoCAD software) |

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