GOVERNMENT POLYTECHNIC, PURI
DEPARTMENT OF CIVIL ENGINEERING

Discipline: **CIVIL ENGG.**	Semester: 3RD	Name of the Teaching Faculty : **Mr. SURYAKANT DASH**
Subject: **CIVIL ENGG. DRAWING-1**	No. of days/per week class allotted: 05	Semester From date: 01.10.2021 To Date: 08.01.2022 No. of Weeks:15
PRE-REQUISITE	Basic computer skills.	
COURSE OUTCOMES	CO1- Use AutoCAD modules to prepare engineering drawings CO2- Comprehend various drawing commands available in CAD software CO3- Prepare plan, elevation and section views of flat roof buildings CO4- Prepare plan, elevation and section views of inclined roof buildings CO5- Generate drawings of building citing material differences CO6- Generate building plans following prescribed regulations in established codes	

Week	Class day	Practical topics	Delivery Method
1ST	1ST	**1. AutoCAD SOFTWARE.**	Whiteboard
	2ND	1.1 Recap of the Draw, Format, Edit, Dimension, Modify commands	Whiteboard
	3RD	Recap of the Draw, Format, Edit, Dimension, Modify commands	Demonstration
	4TH	Recap of the Draw, Format, Edit, Dimension, Modify commands	Autocad software
	5TH	Recap of the Draw, Format, Edit, Dimension, Modify commands	Autocad software
2ND	1ST	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Whiteboard
	2ND	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Whiteboard
	3RD	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Demonstration
	4TH	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
	5TH	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
3RD	1ST	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
	2ND	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
	3RD	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
	4TH	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
	5TH	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software

4TH	1ST	1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	Autocad software
	2ND	1.3 Develop Isometric drawings of simple objects	Whiteboard
	3RD	1.3 Develop Isometric drawings of simple objects	Whiteboard
	4TH	1.3 Develop Isometric drawings of simple objects	Demonstration
	5TH	1.3 Develop Isometric drawings of simple objects	Autocad software
5TH	1ST	1.4 Develop 3D drawings of simple object	Autocad software
	2ND	1.4 Develop 3D drawings of simple object	Autocad software
	3RD	1.4 Develop 3D drawings of simple object	Autocad software
	4TH	1.4 Develop 3D drawings of simple object	Autocad software
	5TH	**Viva voice**	
6TH	1ST	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification.	Whiteboard
	2ND	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Whiteboard
	3RD	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Demonstration
	4TH	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
	5TH	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
7TH	1ST	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
	2ND	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
	3RD	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
	4TH	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
	5TH	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification	Autocad software
8TH	1ST	2.2 Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given specification.	Whiteboard
	2ND	2.2 Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given specification.	Whiteboard
	3RD	2.2 Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given specification.	Demonstration
	4TH	2.2 Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given specification.	Autocad software
	5TH	2.2 Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given specification.	Autocad software

	1ST	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	2ND	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	3RD	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	4TH	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	5TH	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
10TH	1ST	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	2ND	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	3RD	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	4TH	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc	Autocad software
	5TH	**Viva voice**	
11TH	1ST	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Whiteboard
	2ND	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Whiteboard
	3RD	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Demonstration
	4TH	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Autocad software
	5TH	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Autocad software
12TH	1ST	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Autocad software
	2ND	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Autocad software
	3RD	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Autocad software
	4TH	3 PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped	Autocad software

	5TH	Viva voice	
13TH	1ST	**4. BUILDING PLANNING** 4.1 Planning of buildings for specific cost based on approximate plinth area rate. 4.2 Orientation of buildings, location of openings and living areas.	Whiteboard
	2ND	4.2 Orientation of buildings, location of openings and living areas.	
	3RD	4.2 Orientation of buildings, location of openings and living areas.	Whiteboard
	4TH	4.2 Orientation of buildings, location of openings and living areas.	Demonstration
	5TH	4.2 Orientation of buildings, location of openings and living areas.	Autocad software
14TH	1ST	4.3 Line plan of School, hostel, market complex and dispensary building	Autocad software
	2ND	4.3 Line plan of School, hostel, market complex and dispensary building	Autocad software
	3RD	4.3 Line plan of School, hostel, market complex and dispensary building	Autocad software
	4TH	4.3 Line plan of School, hostel, market complex and dispensary building	Autocad software
	5TH	**Viva voice**	Autocad software
15TH	1ST	PRACTICE CLASS	Autocad software
	2ND	PRACTICE CLASS	Autocad software
	3RD	PRACTICE CLASS	Autocad software
	4TH	PRACTICE CLASS	Whiteboard
	5TH	PRACTICE CLASS	Whiteboard

LEARNING RESOUCES:

01. . AutoCAD SOFTWARE

WEBSITE RESOUCES:

01. https://youtu.be/uy2GvFwVJU4

Sunyayant Dash
SIGNATURE OF CONCERNED FACULTY

SIGNATURE OF HOD I/C

PRINCIPAL
G.P. PURI