20SA8551 – COMPUTER AIDED BUILDING DRAWING USING AUTO CAD

Course Category:				Skill oriented Course							Credits:			2	
Course Type:				Laboratory							Lecture-Tutorial-			1-0-2	
Course Type.				Laboratory							Practical:				
										Continuous			_		
Prerequisites:				20ES1351 – Construction materials and Concrete Technology Semester End											
													5	50	
				Evaluation:									_	50	
	0 1			Total Marks:) 3	50	
Course Outcomes Upon successful completion of the course, the student will be able to:															
											K4				
COI	Demonstrate the knowledge of local bylaws and will be able to design the building									J: :	K4				
CO2	accordance with local regulations.											aing in	K3		
	Design the different types of building in accordance with climatic conditions, we														
CO3	environmentally responsibility and as per the requirements of the owner.													K4	
CO4											K6				
CO5	Create detailed drawing of utilities including water supply, conitary and electrical 1								layout	V6					
CO3	as lay	ers.	g											K6	
	Contribution of Course Outcomes towards achievement of Program Outcomes														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1		2	3		3	2	2					1	3	3	
CO2	1	2	3		2		2					1	3	3	
CO3	-1	2	3		3	2	2					1	3	3	
CO4	1	2	3		3	2	2 2					1	3	3	
Avg.	1		_		3	_	_	i						3	
1- Low 2-Medium 3-High Course Content															
			DDDIC	TIDI D							11.	1			
PRINCIPLES OF CIVIL ENGINEERING drawing and introduction										on					
Ermonimont No 1			to AutoCAD, Concept of setbacks, carpet area, plinth area, floor area ratio, and floor space index, super built-up area, bubble diagram and											CO1,	
Experiment No.1		110.1	coverage. Introduction to urban and municipal bylaws as per national											CO2	
			building codes.												
Experiment No.2			Foundations: Plan and sectional elevation of Stepped wall footing,											CO1	
•			isolated R.C.C stepped and sloped footing (with Reinforcement details)												
Exper	iment	No.3	Openings: a. Plan and sectional elevation of Doors (Fully												
			panelled, half panelled, flush)											CO3	
			b. Plan and sectional elevation of Windows (Fully panelled,												
E	ime 1	No.4	half panelled, glazed) Concept of plan, elevation, cross section, schedule of opening and site												
Exper	ıment	110.4	concept of plan, elevation, cross section, schedule of opening and site plan of a single bed residential building											CO3	
			Concept of plan, elevation, cross section, schedule of opening and site												
Experiment No.5			plan of a single bed residential building											CO3	
			Development of plan, elevation and section of building from single line										ne	go.	
Experiment No.6		diagram.											CO3		
Ermoniment No 7		Space design of a apartment building using circulation diagram													
Experiment No.7			satisfying the given requirement.											CO3	
Experiment No.8			Space design of a primary health Centre.											CO3	
Exper	iment	No.9	Space design of a educational building.											CO3	
	erime	ent	Space	Space design office building.										CO3	
1	No.10		space design office building.										CO3		

Experiment No.11	Space design of post office and bank building.						
Experiment No.12	Development of water supply, sanitary and electrical drawing for a given residential building as a layer.						
Experiment No.13	Development of center line drawing for a storied building- footing, column, beam locations.						
	Learning Resources						
Text Books & Reference Manuals	2. Gurucharan Singh and Subash Chander, "Civil Engineering Drawing" (2014) English Standard Publishers and Dist. Delhi						
Reference Books	3 National Building Code RIS New Delhi						
e- Resources & other digital material	http://nptel.ac.in/courses.php http://jntuk-coeerd.in/						