70.00			
BCE302	Computer-aided Civil	1L:0T:0P	1 credits
	Engineering Drawing		

Pre-requisite: No Pre-requisite.

Course Objectives:

Course Objectives:	the dealers and an algorithm drawing.
CO1	To understand the basic elements of engineering drawing. To be able to prepare engineering drawings in 2D and 3D for
CO2	To be able to prepare engineering drawings in 215 and 215 to
	To understand and interpret engineering drawings.
CO3	To get familiar with the software's used for drafting.
CO4	To get familiar with the software a used for drawing.

INTRODUCTION; Introduction to concept of drawings, Interpretation of typical drawings, Planning drawings to show information concisely and comprehensively; optimal layout of drawings and Scales; Introduction to computer aided drawing, co- ordinate systems, reference planes. Commands: Initial settings, Drawing aids, Drawing basic entities, Modify commands, Layers, Text and Dimensioning. Blocks. Drawing presentation norms and standards.

SYMBOLS AND SIGN CONVENTIONS: Materials, Architectural, Structural, Electrical and Plumbing symbols. Rebar drawings and structural steel fabrication and connections drawing symbols, welding symbols; dimensioning standards MASONRY BONDS: English Bond and Flemish Bond - Corner wall and Cross walls - One brick

wall and one and half brick wall

BUILDING DRAWING: Terms, Elements of planning building drawing, Methods of making line drawing and detailed drawing, Site plan, floor plan, elevation and section drawing of small residential buildings, Foundation plan, Roof drainage plans.

Course Outcomes: After the completion of this course the students will be able to:

Course Outcomes: After the completion of this course me example of formal engineering drawing. Develop Parametric design and the conventions of formal engineering drawing.		
COL	Develop Parametric design and property graphically/visually.	
CO2	Communicate a design idea/concept graphically and with understanding of CAD Examine a design critically and with understanding a combination of 2D and 3D	
CO3	Examine a design critically and with understanding of CAD To interpret drawings, and to produce designs using a combination of 2D and 3D	
CO4		
	software.	

Text/Reference Books:

- Subhash C Sharma & Gurucharan Singh (2005), "Civil Engineering Drawing", Standard
- Ajeet Singh (2002), "Working with AUTOCAD 2000 with updates on AUTOCAD 2001", Publishers 2.
- Sham Tickoo Swapna D (2009), "AUTOCAD for Engineers and Designers", Pearson Tata- McGraw-Hill Company Limited, New Delhi
- Venugopal (2007), "Engineering Drawing and Graphics + AUTOCAD", New Age Education, 4.

national Pvi. Liu.,
Balagopal and Prabhu (1987), "Building Drawing and Detailing", Spades publishing KDR International Pvt. Ltd., (Corresponding set of) CAD Software Theory and User Manuals. 5. building, Calicut.

(Corresponding Set 61) C(1) Control Co 7. n. Sikka, V.B. (2013), A Course in Civil Engineering Drawing, S.K. Kataria & Sons. Asian.

Department of Civil Engineering Invertis University Bareilly-243123, UP

Faculty of Engineering & Technology
Invertis University Bareilly-243123, UP

Invertis University

Bareilly