CIVIL ENGINEERING DRAWING LABORATORY

III Semester: CE								
Course Code	Category	Hours / Week			Credits	Maximum Marks		
ACEB04	Core	L	T	P	C	CIA	SEE	Total
		3	-	-	3	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 36				Total Classes: 36		

COURSE OBJECTIVES:

The course should enable the students to:

- I. Develop Parametric design and the conventions of formal engineering drawing
- II. Produce and interpret 2D & 3D drawings
- III. Communicate a design idea/concept graphically/ visually

COURSE LEARNING OUTCOMES (CLOs):

- 1. Draw the load bearing walls including details of the doors and windows.
- 2. Draw the two storied building including all MEP, Joinery and rebar details.
- 3. Draw the detailed floor plans and elevations.
- 4. Understand the sectional views of a building for RCC framed buildings.
- 5. Draw the reinforcement details of typical Beams.
- 6. Draw the reinforcement details of typical Columns.
- 7. Draw the reinforcement details of typical slabs.
- 8. Draw the typical reinforcement details of typical Spread footings.
- 9. Draw the detailing of north light roof structures.
- 10. Draw the detailing of Trusses.
- 11. Draw the perspective view of one storey building..
- 12. Draw the perspective view of two storey building.

Week-1	BUILDINGS
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Batch-I: Load bearing walls including details of doors and windows.

Batch-II: Load bearing walls including details of doors and windows.

Week-2 STAND DRAWING

Batch-I: Typical two storied building including all MEP, joinery, rebars, finishing and other details. Batch-II: Typical two storied building including all MEP, joinery, rebars, finishing and other details.

Week-3 RCC FRAMED STRUCTURES-1

Batch-I: Floor plans, Elevations. Batch-II: Floor plans, Elevations.

Week-4 RCC FRAMED STRUCTURES-2

Batch-I: Sectional views. Batch-II: Sectional views.

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Week-5	REINFORCEMENT DRAWING-1				
	Batch-I: Typical beams.				
Batch-II: Typica	al beams.				
Week-6	REINFORCEMENT DRAWING-2				
Batch-I: Typica Batch-II: Typica					
Week-7	REINFORCEMENT DRAWING-3				
Batch-I: Typical Slabs.					
Batch-II: Typica	al Slabs.				
Week-8	REINFORCEMENT DRAWING-4				
Batch-I: Typical Spread footings. Batch-II: Typical Spread footings.					
Week-9	INDUSTRIAL BUILDINGS-1				
Batch-I: North l	ight roof structures.				
Batch-II: North light roof structures.					
Week-10	INDUSTRIAL BUILDINGS-2				
Batch-I: Trusses. Batch-II: Trusses.					
WeeK-11	PERSPECTIVE VIEW-1				
Batch-I: One storey buildings.					
Batch-II: One storey buildings.					
Week-12	PERSPECTIVE VIEW-2				
	Batch-I: Two storey buildings Batch-II: Two storey buildings				

Manuals:

- 1. Bhash C Sharma & Gurucharan Singh, "Civil Engineering Drawing", Standard Publishers, 2005.
- 2. Ajeet Singh, "Working with AUTOCAD 2000 with updates on AUTOCAD 2001", Tata- Mc Graw-Hill Company Limited, New Delhi, 2002.
- 3. Sham Tickoo Swapna D, "AUTOCAD for Engineers and Designers", Pearson Education, 2009.
- 4. Venugopal, "Engineering Drawing and Graphics + AUTOCAD", New Age International Pvt. Ltd., 2007.
- 5. Balagopal and Prabhu, "Building Drawing and Detailing", Spades publishing KDR building, Calicut, 1987.
- 6. 6. Malik R.S., Meo, G.S., "Civil Engineering Drawing", Computech Publication Ltd New Asian, 2009.
- 7. Sikka, V.B., "A Course in Civil Engineering Drawing", S. K. Kataria & Sons, 2013.

Web References:

- 1. http://www.aust.edu/civil/lab manual/ce 100.pdf.
- 2. https://www.wiziq.com/tutorials/civil-engineering-drawing.
- 3. http://civilengineering-notes.weebly.com/building-drawing.html.

E-Text Books:

- 1. https://www.wiziq.com/tutorials/civil-engineering-drawing.
- 2. http://civilengineering-notes.weebly.com/building-drawing.html.
- 3. https://www.pdfdrive.com/civil-engineering-drawing-books.html.