Techno India NJR Institute of Technology



Course File COMPUTER AIDED CIVIL ENGINEERING DRAWING (3CE4-23)

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For Techno India NJR Institute of Technology Dr. Pankaj Kumar Porwa (Principal)

ALC: NOT THE OWNER.

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

SYLLABUS

II Year - III Semester: B.Tech. (Civil Engineering)

3CE4-23: COMPUTER AIDED CIVIL ENGINEERING DRAWING

Credit: 1.5 0L+0T+3P Max. Marks: 75 (IA:45, ETE:30)

List of Assignments

To study and draw the labelled sketch of different Building Components on sheets with exposure to CAD:

- 1. Drawing of walls
 - a. Brick and Stone masonry
 - b. Cross section of external wall from foundation to parapet
 - c. Partition wall, cavity wall and
- 2. Pointing, Arches, Lintels and Floors
- 3. Doors and Windows
- 4. Stairs, Cross section of Dog legged stairs
- 5. Roofs: Flat and Pitched roof (Steel truss)
- 6. Development of Front Elevation and Sectional Elevation from a given plan
- 7. Development of Plan, Front Elevation and Sectional Elevation from line diagram

Course Overview:

Computer-aided Design (CAD) Course is the process of creation, modification, analysis and optimization of designs with the help of a computer or workstation is termed computer-aided design (CAD). There are many software solutions that are used for this purpose; they are called CAD software. The productivity of a designer has been enhanced manifold by the use of this Computer-aided Design (CAD) software. They are also used for improving the quality of design and communication. The database for manufacturing is created using CAD software.

CO.NO.	Cognitive Level	Course Outcome
1	Comprehension	To understand the basic command, principles and features behind AutoCAD.
2	Application	Execute skills to draft the plan, elevation and sectional views of buildings.
3	Analysis	Students can Sketch or draft 2D and 3D views of buildings
4	Synthesis	Understand development of front elevation and sectional elevation from a given plan
5	Evaluation	Understand development of plan, front elevation and sectional elevation from line diagram.

Course Outcomes:

Prerequisites:

- 1. Fundamentals knowledge of Computer.
- 2. Fundamentals knowledge of Drawing fundamentals.
- 3. Fundamentals knowledge of planning.

For Techno India NJR Institute of Technology Tan J TIZALON Dr. Pankaj Kumar Porwa (Principal)



For Techno India NJR Institute of Technology पैकज परिवाली Dr. Pankaj Kumar Perwa (Principal)

https://drive.google.com/drive/folders/14E9Z6UjJxNu mZ-5USoU6QdMEI5vFq M

Viva QUIZ Link

- <u>1. https://www.thesourcecad.com/autocad-quiz-with-answers/</u>
- 2. https://www.mycadsite.com/quizzes.html
- 3. https://www.proprofs.com/quiz-school/topic/autocad
- <u>4.</u> <u>https://quizizz.com/admin/quiz/5cee714ad4d101001cdaab04/auto-cad-quiz</u>
- 5. https://quizlet.com/102925191/autocad-quiz-questions-flash-cards/

Assessment Methodology:

- 1. Practical exam using AutoCAD software.
- 2. Internal exams and Viva Conduct.
- 3. Final Exam (practical paper) at the end of the semester.

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