

Gokaraju Rangaraju Institute of Engineering and Technology
Department of Civil Engineering

Computer Aided Design (CAD Lab)

B.Tech II year– II Semester

Mr. C Vivek Kumar / Mr. Y Kamalaraju





Gokaraju Rangaraju Institute of Engineering and Technology

Department of Civil Engineering

Course File Check List

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Gokaraju Rangaraju Institute of Engineering and Technology

Department of Civil Engineering

Time table

	1	2	3		4	5	6
Monday							
Tuesday					GR20A2021 – CAD LAB		
Wednesday							
Thursday							
Friday	GR20A2021 – CAD LAB						
Saturday							



Gokaraju Rangaraju Institute of Engineering and Technology (Autonomous)

Bachupally, Kukatpally, Hyderabad – 500 090. (040) 6686 4440

Programme Educational Objectives (PEO's)

1. Graduates of the programme will be successful career in technical and professional career.
2. Graduates of the programme will have proficiency in solving real time Civil Engineering projects.
3. Graduates of the programme will continue to engage in lifelong learning with ethical and social responsibility.

Program Outcomes (PO's)

Graduates of the Civil Engineering programme will be able to

- a. apply knowledge of mathematics, science and fundamentals of Civil Engineering.
- b. analyse problem and interpret the data.
- c. design a system component, or process to meet desired needs in Civil Engineering within realistic constraints.
- d. identify, formulate, analyse and interpret data to solve Civil Engineering problems.
- e. use modern engineering tools such as CAD and GIS for the Civil Engineering practice.
- f. understand the impact of engineering solutions in a global, economic and societal context.
- g. understand the effect of Civil Engineering solutions on environment and to demonstrate the need for sustainable development.
- h. understanding of professional and ethical responsibility.
- i. work effectively as an individual or in a team and to function on multi-disciplinary context.
- j. communicate effectively with engineering community and society.
- k. demonstrate the management principles in Civil Engineering projects.
- l. recognize the need for and an ability to engage in life-long learning.

Program Specific Outcomes (PSO's)

PSO1: Recognize the need for a sustainable environment and design smart infrastructure considering the global challenges.

PSO2: Create and develop innovative designs with new era materials through research and development.

Signature of HOD

Signature of faculty

Date:

Date:



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COURSE OBJECTIVES

Academic Year : 2021-2022

Semester : II

Name of the Program : B.Tech

Year: II Year

Section: A

Course/Subject : CAD LAB

Course Code : GR20A2021

Name of the Faculty : C Vivek Kumar / Y Kamalaraju

Designation: Assistant Professor

Dept.: Civil Engineering

On completion of this Subject/Course the student shall be able to:

S.No	Objectives
1	<i>Introduction of computer aided drafting software and define its use in construction work.</i>
2	<i>Understand the basic building drawing fundamentals for creating and manipulate geometric models by CAD System</i>
3	<i>Apply the knowledge of innovative competencies of CAD to increase the creativity to design projects.</i>
4	<i>Visualize and draw the building components like truss, windows and doors.</i>
5	<i>Understand the concepts of various truss members and its applications</i>

Signature of HOD

Signature of faculty

Date:

Date:

Note: Please refer to Bloom's Taxonomy, to know the illustrative verbs that can be used to state the objectives.



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COURSE OUTCOMES

Academic Year : 2021-2022 **Semester** :

Name of the Program: B.Tech **Year:** II Year **Section:** A

Course/Subject: CAD lab **Course Code** : GR20A2021

Name of the Faculty: C Vivek Kumar / Y Kamalaraju **Designation:** Assistant Professor

Dept.: Civil Engineering

On completion of this Subject/Course the student shall be able to

S.No	Outcomes
1	<i>Comprehend the fundamentals of building drawings and understand CAD software for drafting.</i>
2	<i>Draw Material, Sanitary, Electrical Symbols and various brick bonds by using drawing commands in CAD.</i>
3	<i>Develop Geometric Plan, Sections and Elevations for single and multi-storeyed building with suitable scale and dimensions.</i>
4	<i>Draft the building components and sectional view of doors, windows and trusses</i>
5	<i>Create the drawings of various trusses like King post truss, Queen post truss and North light truss</i>

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Date:

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Note: Please refer to Bloom's Taxonomy, to know the illustrative verbs that can be used to state the objectives



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GUIDELINES TO STUDY THE COURSE/SUBJECT

Academic Year : 2021-22

Semester : I

Name of the Program: B.Tech **Year:** IV **Section:** A1

Course/Subject: CAD lab **Course Code:** GR20A2021

Name of the Faculty: C Vivek Kumar / Y Kamalaraju **Dept.:** Civil Engineering

Designation: Assistant Professor

Guidelines to study the Course/ Subject: Concrete Technology

This course helps the students to learn how to analyze and design the different structures like buildings, water tanks, steel trusses, industrial trusses, towers and bridges etc; with different loads and load combinations such as dead loads, live loads, wind load and earthquake loads.

Students should have the following prerequisites

1. Knowledge on Structural Analysis.
2. Depth knowledge on Design of Reinforced Concrete Structures.
3. Knowledge on AutoCAD.
4. Knowledge on MS Office
5. Knowledge on IS Codes such as IS 456, IS 800, IS 1893 Part 1 and IS 875 Part 1 to 5 etc.

Why will this subject help?

1. This course will help the students to analyse the different structures.
2. This course will help the students to design the different structures.

Books/Material

TEXT BOOK:

1. STAAD Pro 2005 Tutorial by Munir M. Hamad SDC (Schroff Development Corporation) Publications.
2. STAAD.Pro 2007 Technical Reference Manual, Research Engineers International, A Bentley solution Centre

REFERENCES:

1. Limit State Theory and Design of Reinforced Concrete by Dr V.L Shah, Structure Publications.
2. Bentley Software Manual.
3. GRIET, Department of Civil Engineering Manual.

Websites

1. NPTEL Lecture Notes and videos: <https://www.youtube.com/watch?v=bypvx608JmU>
2. NPTEL Videos: <https://www.youtube.com/watch?v=jWTm9UjvtT4>

Course Design and Delivery System (CDD):

- The Course syllabus is written into number of learning objectives and outcomes.
- These learning objectives and outcomes will be achieved through lectures, assessments, assignments, experiments in the laboratory, projects, seminars, presentations, etc.
- Every student will be given an assessment plan, criteria for assessment, scheme of evaluation and grading method.
- The Learning Process will be carried out through assessments of Knowledge, Skills and Attitude by various methods and the students will be given guidance to refer to the text books, reference books, journals, etc.

The faculty be able to –

- Implement principles of Learning
- Comprehend the psychology of students
- Develop instructional objectives for a given topic
- Prepare course, unit and lesson plans
- Demonstrate different methods of teaching and learning
- Use appropriate teaching and learning aids
- Plan and deliver lectures effectively
- Provide feedback to students using various methods of Assessments and tools of Evaluation
- Act as a guide, advisor, counselor, facilitator, motivator and not just as a teacher alone

Signature of HOD

Signature of faculty

Date:

Date:



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GUIDELINES TO STUDY THE COURSE / SUBJECT

Academic Year : 2021-2022

Semester : I

Name of the Program : B.Tech

Year: IV

Section: A & B

Course/Subject: Computer application in structural engineering

Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept.: Civil Engineering

Designation: ASST.PROFESSOR

Guidelines to study the Course/ Subject: Concrete Technology

This course helps the students to learn how to analyze and design the different structures like buildings, water tanks, steel trusses, industrial trusses, towers and bridges etc; with different loads and load combinations such as dead loads, live loads, wind load and earthquake loads.

Students should have the following prerequisites

6. Knowledge on Structural Analysis.
7. Depth knowledge on Design of Reinforced Concrete Structures.
8. Knowledge on AutoCAD.
9. Knowledge on MS Office
10. Knowledge on IS Codes such as IS 456, IS 800, IS 1893 Part 1 and IS 875 Part 1 to 5 etc.

Why will this subject help?

3. This course will help the students to analyse the different structures.
4. This course will help the students to design the different structures.

Books/Material

TEXT BOOK:

3. STAAD Pro 2005 Tutorial by Munir M. Hamad SDC (Schroff Development Corporation) Publications.
4. STAAD.Pro 2007 Technical Reference Manual, Research Engineers International, A Bentley solution Centre

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- Act as a guide, advisor, counselor, facilitator, motivator and not just as a teacher alone

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Date:

Date:

GR 20 Regulations (2021-2022)

GOKARAJU RANGARAJU

INSTITUTE OF ENGINEERING AND TECHNOLOGY

II Year B.Tech. CE – II Semester

T L P C

0 0 4 2

GR20A2021 – COMPUTER AIDED DESIGN LAB

1. Introduction to Computer Aided Drafting

2. Software and Basic drawing commands for CAD

3. Conventional Symbols used in Building Construction

- a. Building materials symbols
- b. Plumbing fixtures and
- c. Electric fixtures
- 4. Bonds in brick masonry

5. Drawing Plan, Section and Elevation of Building

- a. Single room with R.C.C flat roof
- b. A Residential building with single bedroom
- c. R.C.C framed structure with R.C.C roofslab
- d. Library building with R.C.C flat roof
- e. Planning of fully tiled gabled house
- f. Workshop building with north light roof truss

6. Drawing Plan, Section and Elevation of Multi-storeyed Building

7. Detailing of Building Components

- a. Doors
- b. Windows
- c. Ventilator
- d. Stairs
- e. Lintel Cum Shade

8. Drawing of King post truss, Queen post truss and North light Truss.



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SCHEDULE OF INSTRUCTIONS

COURSE PLAN

Academic Year : 2021-2022

Semester : II

Name of the Program: B.Tech Year: IV Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Ex No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcomes Nos.	References (Text Book, Journal...) Page Nos.: ____ to ____
1	08-03-2022	3	Introduction to AutoCAD & its Commands	COB's:1, 2,3,4 & 5 CO's:3	Manual
2	15-03-2022	3	Practice Exercise on AutoCAD with and without Scale	COB's:1 CO's:1	
3	22-03-2022	3	Drawing materials symbols with hatch	COB's:1 CO's:1	
3	29-03-2022	3	Drawing Sanitary and Electrical fixture symbols	COB's:1 CO's:1	
4	05-04-2022	3	Drawing Bonds in brick work - English Bond & Flemish Bond	COB's:1 CO's:1	
7	12-04-2022	3	Introduction to Building components and their standard dimensions	COB's:2 CO's:2	
5	19-04-2022	3	Building Planning, Orientation and Vaasthu	COB's:2 CO's:2	
5	26-04-2022	3	Practice Exercise of Single Bed room building with standard specification	COB's:2 CO's:3	

5	10-05-2022	3	Practice Exercise of Double Bed room building with standard specifications	COB's:2 CO's:3	
5	17-05-2022	3	Practice Exercise of Industrial building planning with standard specification	COB's:2 CO's:3	
5	24-05-2022	3	Practice Exercise of Commercial building planning with standard specification	COB's:2 CO's:3	
6	31-05-2022	3	Practice Exercise - Drawing of Building plans on PLOT	COB's:2 CO's:3	
6	07-06-2022	3	Practice Exercise - Drawing of Building plans on PLOT	COB's:2 CO's:3	
6	14-06-2022	3	Practice Exercise of Building Plan, Section and Elevation with standard specifications	COB's:2 CO's:3	
6	21-06-2022	3	Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)	COB's:2 CO's:3	
8	28-06-2022	3	King Post Truss and Queen post Truss	COB's:2 CO's:3	
	07-06-2022	3	Internal Lab Examination	COB's:2 CO's:3	

Signature of HOD

Signature of faculty

Date:

Date:

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED IN BOLD
3. MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



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**SCHEDULE OF INSTRUCTIONS
COURSE PLAN**

Academic Year : 2021-2022

Semester : II

Name of the Program: B.Tech Year: II Section: A2

Course/Subject: CAD Lab

Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Ex No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcomes Nos.	References (Text Book, Journal...) Page Nos.: ____ to ____
1	11-03-2022	3	Introduction to AutoCAD & its Commands	COB's:1, 2,3,4 & 5 CO's:3	Manual
2	18-03-2022	3	Practice Exercise on AutoCAD with and without Scale	COB's:1 CO's:1	
3	25-03-2022	3	Drawing materials symbols with hatch	COB's:1 CO's:1	
3	01-04-2022	3	Drawing Sanitary and Electrical fixture symbols	COB's:1 CO's:1	
4	08-04-2022	3	Drawing Bonds in brick work - English Bond & Flemish Bond	COB's:1 CO's:1	
7	22-04-2022	3	Introduction to Building components and their standard dimensions	COB's:2 CO's:2	
5	29-04-2022	3	Building Planning, Orientation and Vaasthu	COB's:2 CO's:2	
5	06-05-2022	3	Practice Exercise of Single Bed room building with standard specification	COB's:2 CO's:3	

5	13-05-2022	3	Practice Exercise of Double Bed room building with standard specifications	COB's:2 CO's:3	
5	20-05-2022	3	Practice Exercise of Industrial building planning with standard specification	COB's:2 CO's:3	
5	24-05-2022	3	Practice Exercise of Commercial building planning with standard specification	COB's:2 CO's:3	
6	27-05-2022	3	Practice Exercise - Drawing of Building plans on PLOT	COB's:2 CO's:3	
6	03-06-2022	3	Practice Exercise - Drawing of Building plans on PLOT	COB's:2 CO's:3	
6	10-06-2022	3	Practice Exercise of Building Plan, Section and Elevation with standard specifications	COB's:2 CO's:3	
6	17-06-2022	3	Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)	COB's:2 CO's:3	
8	24-06-2022	3	King Post Truss and Queen post Truss	COB's:2 CO's:3	
	01-07-2022	3	Internal Lab Examination	COB's:2 CO's:3	

Signature of HOD

Signature of faculty

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SCHEDULE OF INSTRUCTIONS

UNIT PLAN

Academic Year : 2021-2022

Semester : II

Name of the Program: B.Tech ... Year: IV Section: A1

Course/Subject: CAD Lab

Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

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7	12-04-2022	3	Introduction to Building components and their standard dimensions	COB's:2 CO's:2	
5	19-04-2022	3	Building Planning, Orientation and Vaasthu	COB's:2 CO's:2	
5	26-04-2022	3	Practice Exercise of Single Bed room building with standard specification	COB's:2 CO's:3	

5	10-05-2022	3	Practice Exercise of Double Bed room building with standard specifications	COB's:2 CO's:3	
5	17-05-2022	3	Practice Exercise of Industrial building planning with standard specification	COB's:2 CO's:3	
5	24-05-2022	3	Practice Exercise of Commercial building planning with standard specification	COB's:2 CO's:3	
6	31-05-2022	3	Practice Exercise - Drawing of Building plans on PLOT	COB's:2 CO's:3	
6	07-06-2022	3	Practice Exercise - Drawing of Building plans on PLOT	COB's:2 CO's:3	
6	14-06-2022	3	Practice Exercise of Building Plan, Section and Elevation with standard specifications	COB's:2 CO's:3	
6	21-06-2022	3	Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)	COB's:2 CO's:3	
8	28-06-2022	3	King Post Truss and Queen post Truss	COB's:2 CO's:3	
	07-06-2022	3	Internal Lab Examination	COB's:2 CO's:3	

Signature of HOD

Signature of faculty

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**SCHEDULE OF INSTRUCTIONS
UNIT PLAN**

Academic Year : 2021-2022

Semester : II

Name of the Program: B.Tech ... Year: IV Section: A2

Course/Subject: CAD Lab

Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Ex No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcomes Nos.	References (Text Book, Journal...) Page Nos.: ____ to ____
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7	22-04-2022	3	Introduction to Building components and their standard dimensions	COB's:2 CO's:2	
5	29-04-2022	3	Building Planning, Orientation and Vaasthu	COB's:2 CO's:2	
5	06-05-2022	3	Practice Exercise of Single Bed room building with standard specification	COB's:2 CO's:3	

5	13-05-2022	3	Practice Exercise of Double Bed room building with standard specifications	COB's:2 CO's:3	
5	20-05-2022	3	Practice Exercise of Industrial building planning with standard specification	COB's:2 CO's:3	
5	24-05-2022	3	Practice Exercise of Commercial building planning with standard specification	COB's:2 CO's:3	
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Signature of HOD

Signature of faculty

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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 1 Duration of Lesson: 3hrs.....

Lesson Title: Introduction to AutoCAD Software

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

1. Explain, why CAD Lab software can be used?.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Basic Planning and Unit Conversions AutoCAD Commands

Assignment / Questions:

1. What is the difference between GUI and co ordinate system? (COB's:1 & CO's:1)
2. Classify the types of structures? (COB's:1 & CO's:1)

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 2 Duration of Lesson: 3hrs.....

Lesson Title: AutoCAD Commands with simple exercises

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

1. Draw the basic autocad commands with simple exercises.
2. To understand the basic planning of building

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Planning and Orientation of Buildings Basic Drawing Commands Annotation Commands
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Assignment / Questions:

1. Simple exercise with basic dimensions

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Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 3 Duration of Lesson: 3hrs.....

Lesson Title: Drawing materials symbols with hatch, Electrical and plumbing symbols

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

1. Drawing materials symbols with hatch for Cement, Sand, Concrete, Wood, etc.
2. Drawing Electrical and plumbing symbols

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Drawing materials symbols with hatch for Cement, Sand, Concrete, Wood, etc.

Drawing Electrical and plumbing symbols

Assignment / Questions:

Drawing Electrical and plumbing symbols

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 4 Duration of Lesson: 3hrs.....

Lesson Title: Drawing Bonds in brick work - English Bond & Flemish Bond

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

Drawing Bonds in brick work - English Bond & Flemish Bond

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Drawing Bonds in brick work - English Bond & Flemish Bond

Assignment / Questions:

Drawing Bonds in brick work - English Bond & Flemish Bond

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



**Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)**

Bachupally, Kukatpally, Hyderabad – 500 090. (040) 6686 4440

LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 5 Duration of Lesson: 3hrs

Lesson Title: Introduction to Building components and their standard dimensions

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

- 1 Understand the sub structure and superstructure components
- 2 Draw the basic planning with standard dimensions.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Drawing the plan for single room building with windows and doors with 4m * 3m dimensions.

Assignment / Questions:

Drawing the plan for single room building with windows and doors with 4m * 3m dimensions.

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 6 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise of Single Bed room building with standard specification

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

Practice Exercise of Single Bed room building with standard specification

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Practice Exercise of Single Bed room building with standard specification (6m * 4m)

Assignment / Questions:

Practice Exercise of Single Bed room building with standard specification (6m * 4m)

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 7 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise of 2 BHK building with standard specification

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

- 1 Practice Exercise of 2 BHK building with standard specification

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Practice Exercise of 2 BHK building with standard specification.

Assignment / Questions:

Practice Exercise of 2 BHK building with standard specification

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date: 28/07/17

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A1

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 8 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise of Double Bed room building with standard specifications

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

Draw the Double Bed room building with standard specifications

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Practice Exercise of Double Bed room building with standard specifications

Assignment / Questions:

Practice Exercise of Double Bed room building with standard specifications

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 9 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise of Industrial building planning with standard specification

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

Draw the Practice Exercise of Industrial building planning with standard specification.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Practice Exercise of Industrial building planning with standard specification

Assignment / Questions:

Practice Exercise of Industrial building planning with standard specification

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 10 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise of commercial building planning with standard specification.

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

- 1 Practice Exercise of commercial building planning with standard specification.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Practice Exercise of commercial building planning with standard specification.

Assignment / Questions:

Practice Exercise of commercial building planning with standard specification.

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos..



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LESSON PLAN

Academic Year : 2021-2022 Date: 9/08/17
Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 11 Duration of Lesson: 3hrs

Lesson Title: Draw the Elevation and Section for 1 BHK & 2 BHK building.

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

- 1 Draw the Elevation and Section for 1 BHK building with standard specifications.
- 2 Draw the Elevation and Section for 2 BHK building with standard specifications.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

- 1 Draw the Elevation and Section for 1 BHK building with standard specifications.
- 2 Draw the Elevation and Section for 2 BHK building with standard specifications.

Assignment / Questions:

- 1 Draw the Elevation and Section for 2 BHK building with standard specifications.

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos.



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 12 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise - Drawing of Building plans on plot dimensions

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

Draw the Practice Exercise for drawing of building plans on plot dimensions.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Draw the Practice Exercise for drawing of building plans on plot dimensions. (40'*30')

Assignment / Questions:

Draw the Practice Exercise for drawing of building plans on plot dimensions.

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos.



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 13 Duration of Lesson: 3hrs.....

Lesson Title: Draw the Practice Exercise for drawing of building plans on plot dimensions.

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

Draw the Practice Exercise for drawing of building plans on plot dimensions.

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Draw the Practice Exercise for drawing of building plans on plot dimensions. (60' * 40')

Assignment / Questions:

1 Draw the Practice Exercise for drawing of building plans on plot dimensions.

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos.



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV ... Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 14 Duration of Lesson: 3hrs.....

Lesson Title: Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

- 1 Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)

Assignment / Questions:

- 1 Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos.



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LESSON PLAN

Academic Year : 2021-2022 Date:

Semester : I

Name of the Program: B.Tech ... Year: IV Section: A

Course/Subject: CAD Lab Course Code: **GR20A2021**

Name of the Faculty: C Vivek Kumar / Y Kamalaraju Dept: Civil Engineering

Designation: ASSISTANT PROFESSOR

Exercise No: 15 Duration of Lesson: 3hrs.....

Lesson Title: King Post Truss and Queen post Truss

INSTRUCTIONAL/LESSON OBJECTIVES:

On completion of this lesson the student shall be able to:

- 1 Draw the King Post Truss and Queen post Truss

TEACHING AIDS : White board and Laptop

TEACHING POINTS :

- 1 Draw the King Post Truss
- 2 Draw the Queen post Truss
- 3 Draw the North Light Roof Truss

Assignment / Questions:

- 1 Draw the King Post Truss, Queen post Truss with given dimensions.

Signature of faculty

Note: Mention for each question the relevant Objectives and Outcomes Nos



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Programme Educational Objectives

1. Graduates of the programme will be successful in technical and professional career.
2. Graduates of the programme will have proficiency in solving real time Civil Engineering projects.
3. Graduates of the programme will continue to engage in life-long learning with ethical and social responsibility.

Programme Outcomes

Graduates of the Civil Engineering programme will be able to

- a. Apply knowledge of mathematics, science and fundamentals of Civil Engineering.
- b. Analyses problem and interpret the data.
- c. Design a system component, or process to meet desired needs in Civil Engineering within realistic constraints.
- d. Identify, formulate, analyze and interpret data to solve Civil Engineering problems.
- e. Use modern engineering tools such as CAD and GIS for the Civil Engineering practice.
- f. Understand the impact of engineering solutions in a global, economic and societal context.
- g. Understand the effect of Civil Engineering solutions on environment and to demonstrate the need for sustainable development.
- h. Understanding of professional and ethical responsibility.
- i. Work effectively as an individual or in a team and to function on multi-disciplinary context.
- j. Communicate effectively with engineering community and society.
- k. Demonstrate the management principles in Civil Engineering projects.
- l. Recognize the need for and an ability to engage in life-long learning.



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Mappings of CO's, COB's Vs PO's, POB's

Course Objectives - Course Outcomes Relationship Matrix

Course Objectives \ Course Outcomes	1	2	3	4	5
1	X				
2		X			
3			X		
4				X	
5					X

Course Outcomes - Program Outcomes relations (Contributions: High, Medium and Low)

GR20A2021 CAD Lab Course Objectives	Program Outcomes											PSO's		
	a	b	c	d	e	f	g	h	i	j	k	l	1	2
1	X	X	X		X						X	X		
2	X	X	X		X						X	X	X	
3	X	X	X		X						X	X	X	
4	X	X	X		X						X	X	X	
5	X	X	X		X						X	X		

GR20A2021 CAD Lab Course Objectives	Program Outcomes											PSO's		
	a	b	c	d	e	f	g	h	i	j	k	l	1	2
1	M	H	H		M						H	H		
2	M	H	H		M						H	H	M	
3	M	H	H		M						H	H	M	
4	M	H	H		M						H	H	M	
5	M	H	H		M						H	H		

GR20A2021 CAD Lab	Program Outcomes												PSO		
Course Outcomes	a	b	c	d	e	f	g	h	i	j	k	l	1	2	
<i>Comprehend the fundamentals of building drawings and understand CAD software for drafting.</i>	M	H	H		M							H	H		
<i>Draw Material, Sanitary, Electrical Symbols and various brick bonds by using drawing commands in CAD.</i>	M	H	H		M							H	H	M	
<i>Develop Geometric Plan, Sections and Elevations for single and multi-storeyed building with suitable scale and dimensions.</i>	M	H	H		M							H	H	M	
<i>Draft the building components and sectional view of doors, windows and trusses</i>	M	H	H		M							H	H	M	
<i>Create the drawings of various trusses like King post truss, Queen post truss and North light truss</i>	M	H	H		M							H	H		

PEO's CO's	1	2	3
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X

PO's Assessments	a	b	c	d	e	f	g	h	i	j	k	l
1	X	X	X	X		X	X		X	X		X
2	X	X	X	X		X	X		X	X		X
3	X	X	X	X		X	X		X	X		X
4	X	X	X	X		X	X		X	X		X
5	X	X	X	X		X	X		X	X		X



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COURSE SCHEDULE

Academic Year : 2021-22

Semester : I

Name of the Program: B.Tech **Year:** IV **Section:** A1

Course/Subject: CAD lab **Course Code:** GR20A2021

Name of the Faculty: C Vivek Kumar / Y Kamalaraju **Dept.:** Civil Engineering

Designation: Assistant Professor

The Schedule for the whole Course / Subject is:

S. No.	Description	Duration (Date)		Total No. Of Periods
		From	To	
1.	All Exercises	08/03/2022	4/07/2022	54
			Total Periods	54

Total No. of Instructional periods available for the course: 54 Hours / Periods



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COURSE SCHEDULE

Academic Year : 2021-22

Semester : I

Name of the Program: B.Tech **Year:** IV **Section:** A2

Course/Subject: CAD lab **Course Code:** GR20A2021

Name of the Faculty: C Vivek Kumar / Y Kamalaraju **Dept.:** Civil Engineering

Designation: Assistant Professor

The Schedule for the whole Course / Subject is:

S. No.	Description	Duration (Date)		Total No. Of Periods
		From	To	
1.	All Exercises	11/3/2022	7/7/2022	54
			Total Periods	54

Total No. of Instructional periods available for the course: 54 Hours / Periods



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EVALUATION STRATEGY

Academic Year : 2021-22

Semester : I

Name of the Program: B.Tech **Year:** IV **Section:** A1

Course/Subject: CAD lab **Course Code:** GR20A2021

Name of the Faculty: C Vivek Kumar / Y Kamalaraju **Dept.:** Civil Engineering

Designation: Assistant Professor

1. TARGET:

A) Percentage to pass: 95%

b) Percentage of class:

Total strength of the class (A & B): 123

Sl. No.	Class/Division	No. of Students
1	First class with distinction	15
2	First class	35
3	Pass class	13

2. COURSE PLAN& CONTENT DELIVERY

Sl.No.	Plan	Brief Description
1	Practice classes	54 + 51 Hours (A1+A2)
2	Presentations	Presentations of videos on analysis and design of all the exercises

3. METHOD OF EVALUATION

3.1 Continuous Assessment Examinations (CAE-I, CAE-II)

A). **Assignments:** Assignments to assess the knowledge of students on CAD Lab basics, analysis and design of RCC, Steel beams, 2D, 3D frames and water tanks.

B) **Quiz:** To assess the knowledge of students on CAD Lab basics, analysis and design of RCC, Steel beams, 2D, 3D frames and water tanks.

C) **Internal Examination:** Internal Examination to assess the overall knowledge on CAD Lab on whole syllabus.

3.2 Semester End Examinations: To test their abilities in CAD Lab and to approve their abilities learnt during the course.

4. List out any new topic(s) or any innovation you would like to introduce in teaching the subjects in this Semester.

Better to eliminate Deck Bridge and towers from the syllabus because the schedules time is not sufficient to complete the syllabus.

Signature of HOD

Signature of faculty

Date:

Date:



2021-22 Batch Students Roll List

S.No	Reg No	Student Name
1	20241A0101	AADHI SRIKAR RAO
2	20241A0102	ABHIRAM SAI YADAV JANGITI
3	20241A0103	BACCHUGUDAM RITHVIK REDDY
4	20241A0104	BANDLA NAVEEN
5	20241A0105	B.PRANAV SAI
6	20241A0106	BHATTU SUPREETH CHAKRAVARTHY
7	20241A0107	BHUPATHIRAJU HIMANTHAVARMA
8	20241A0108	BOINI HEMANTH
9	20241A0109	CHALLA AJAY KUMAR
10	20241A0110	DONABOINA SRI HARI
11	20241A0111	EPPA ARNAV
12	20241A0112	G L N RAGHURAMAN
13	20241A0113	GANDLA HARSHITH KUMAR
14	20241A0114	GUGGILLA SHASHANK
15	20241A0115	GUNDA SRIKANTH
16	20241A0116	JANGILI SRAVAN KUMAR
17	20241A0117	JANJIRALA SRUTHI
18	20241A0118	JARAPULA JAYANTH
19	20241A0119	K NIKHITHA
20	20241A0121	K.KONDAL
21	20241A0122	KAMMAMPATI UDAYKIRAN
22	20241A0123	KARNE SRITHAN
23	20241A0124	KUNCHALA VARUN KUMAR
24	20241A0125	KUNTA NITHIN REDDY
25	20241A0126	M PAVAN KALYAN
26	20241A0127	MERE MAHESH
27	20241A0128	MOHAMMED AHMED
28	20241A0129	MOTHUKURI LAXMAN
29	20241A0130	MOTTADI ADITYA TEJA
30	20241A0131	MULA SUSHMA SRI
31	20241A0132	NAYINI SWETHA

32	20241A0133	PAIDIPALLY BHARATH
33	20241A0134	P.SAI KIRAN REDDY
34	20241A0135	PASNOOR PAVAN PRATHAP REDDY
35	20241A0136	PATHLAVATH SHIVA NAYAK
36	20241A0137	PEDDIBOINA ANUSHA
37	20241A0138	POREDDY ABHINAV REDDY
38	20241A0139	PULLAGURA SANTHOSH
39	20241A0140	RACHALA BHARATH
40	20241A0141	RADHARAPU SHAJI KUMAR
41	20241A0142	RAMAVATH ROJA
42	20241A0143	RATHLAVATH SAIRAM NAYAK
43	20241A0144	RAVI TEJA PASUNUTHI
44	20241A0146	SADDI SHRIANK REDDY
45	20241A0147	SATHVIKA NARLA
46	20241A0148	SOKKULA KOUSHIKREDDY
47	20241A0149	SRIRAM PANDAVULA
48	20241A0150	T.BHARGAVI
49	20241A0151	T.BHUVANESHWARI
50	20241A0152	S.TEJA RETIESH REDDY
51	20241A0153	TEJAVATH KALYANI
52	20241A0154	TELLAPURAM PRUDHVI RAJ
53	20241A0155	THADEM ROHITH
54	20241A0156	THUMMALA RAJASHEKAR
55	20241A0157	UVSGR KAMESWARA SAI KARTHIK
56	20241A0158	SREERAM VATTEM
57	20241A0159	V VIKESH
58	20241A0160	VENNAM SRIKAR
59	21245A0101	GUMADAVELLI ARUN KUMAR
60	21245A0102	KADIRABAD SRIRAM
61	21245A0103	MANIKONDA NIKITHA
62	21245A0104	PARIDULA PRATHYUSHA
63	21245A0105	PATERU MOUNA



Gokaraju Rangaraju Institute of Engineering and Technology
Department of Civil Engineering
CAD LAB



Gokaraju Rangaraju Institute of Engineering & Technology

(Autonomous College Affiliated to JNTUH)

Bachupally, Kukatpally, Hyderabad - 500090

Page No. 10

PRACTICAL EXAMINATION ANSWER BOOK INTERNAL

No. **43057**

H.T. No.

2 0 2 4 1 A 0 1 4 9

Name of the Examination Computer Aided design lab. Internal examination.

Course II. B tech II Sem

Branch Civil Engineering

Date 24/6/22

Signature of the Invigilator [Signature]

START WRITING FROM HERE

Q) Draw the plan for 2BHK 40 feet x 25 feet with east facing. assuming dimensions.

Aim:- To draw the floor plan for a 2BHK house facing east with 40 feet x 25 feet area.

Softwares used :- Computer Aided design lab.

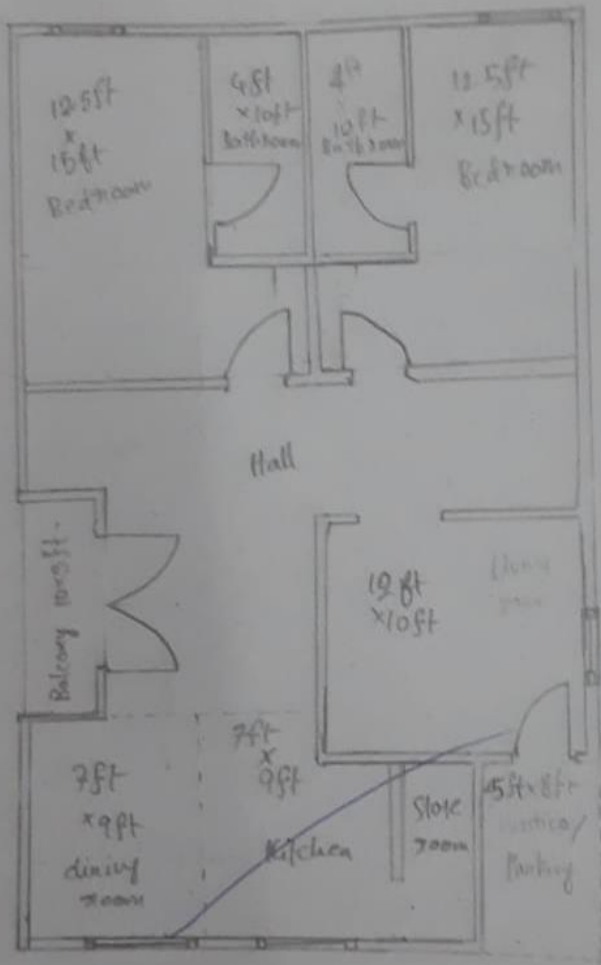
Procedure:-

1. Set dimension of the plan by using the "~~2~~ DIMENSIONS" command and configuring the desired settings i.e. "ENGINEERING" and "FEET" to

2. Once the dimensions of the floor plan are configured we return back to the drawing sheet.

Floor plans -

0.40m = 1.3ft
wall thickness 0.12ft
window 3ft x 3ft
door = 3ft x 6ft





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Bachupally, Kukatpally, Hyderabad - 500090

(8 Pages)

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PRACTICAL EXAMINATION ANSWER BOOK INTERNAL

No.

43075

H.T. No.

20241A0102

Name of the Examination

IInd BTECH Ist Year IInd Sem - mid - II

Date 21-06-22

Course

CAD Lab

Branch

Civil

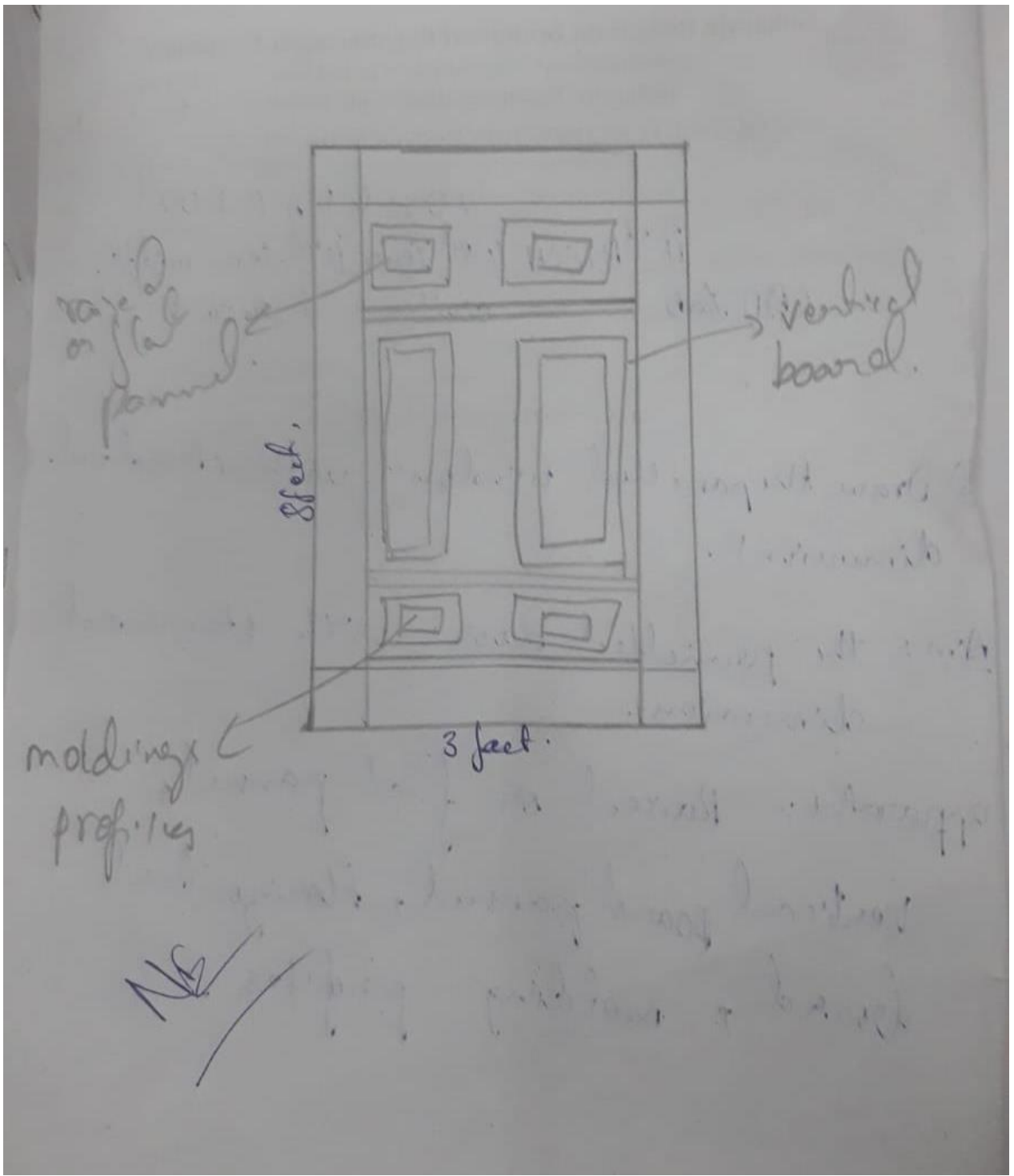
Signature of the Invigilator

START WRITING FROM HERE

⑤ Draw the panelled windows with standard dimensions.

Aim: The panelled doors with standard dimensions.

apparatus: Raised or flat panel, vertical board panel, horizontal board, molding profiles.



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COMPLETION STATUS

Academic Year : 2021-22

Semester : I

Name of the Program: B.Tech **Year:** IV

Section: A

Course/Subject: CAD lab

Course Code: GR20A2021

Name of the Faculty: C Vivek Kumar / Y Kamalaraju

Dept.: Civil Engineering

Designation: Assistant Professor

Actual Date of Completion & Remarks, if any

Exercise	Remarks	No. of Objectives Achieved	No. of Outcomes Achieved
1	Introduction to AutoCAD & its Commands	1	1
2	Practice Exercise on AutoCAD with and without Scale	1	1
3	Drawing materials symbols with hatch	1	1
4	Drawing Sanitary and Electrical fixture symbols	1	1
5	Drawing Bonds in brick work - English Bond & Flemish Bond	2	2
7	Introduction to Building components and their standard dimensions, Building Planning, Orientation and Vaasthu	3	3
8	Practice Exercise of Single Bed room building with standard specification	3	3
9	Practice Exercise of Double Bed room building with standard specifications	3	3
10	Practice Exercise of Industrial building planning with standard specification	4	4
11	Practice Exercise of Commercial building planning with standard specification	4	4
12	Practice Exercise - Drawing of Building plans on PLOT	4	4
13	Practice Exercise of Building Plan, Section and Elevation with standard specifications	4	4
14	Practice Exercise of Building Plan, Section and Elevation with standard specifications (G+2)	4	4
15	King Post Truss and Queen post Truss	5	5

Signature of HOD

Signature of faculty

Date:

Date: