



ESTD : 2007

Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956



EAMCET CODE: INDI

Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

JNTUH CODE: X3

COURSE FILE

ON

COMPUTER AIDED ENGINEERING GRAPHICS

Course Code - ME201ES

**I - B.Tech Semester-II
A.Y. 2022-2023**

Prepared by

Mr.M YADHAGIRI

Assistant Professor

Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501 510

PRINCIPAL
Sri Indu Institute of Engineering & Techno.
Sheriguda (V), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



ESTD : 2007



Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956

Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

JNTUH CODE: X3

EAMCET CODE: INDI

Index of Course File

COURSE FILE INDEX	
S.No	Course/Subject Name
1	Institute Vision & Mission
2	POs /PSOs
3	Course Structure
4	Course syllabus
5	Course Outcomes (CO)
6	Mapping CO with PO/PSO; course with PO/PSO
7	Academic Calendar
8	Time table - highlighting your course periods including tutorial
9	Lesson plan with number of hours/periods, TA/TM, Text/Reference book
10	Gap within the syllabus - mapping to CO, PO/PSO
11	Gaps beyond the syllabus - Mapping to PO/PSO
12	Web references
13	Lecture notes
14	List of Power point presentations / Videos
15	University Question papers
16	Internal Question papers, Key with CO and BTL
17	Assignment Question papers mapped with CO and BTL
18	Scheme of evaluation with CO and BTL mapping
19	Tutorial topics with evidence
20	Result Analysis to identify weak and advanced learners
21	Result Analysis at the end of the course
22	CO, PO/PSO attainment
23	Attendance register
24	Course file (Digital form)



ESTD : 2007



Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956

EAMCET CODE: INDI

Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

JNTUH CODE: X3

INSTITUTE VISION & MISSION

Vision:

To become a premier institute of academic excellence by providing the world class education that transforms individuals into high intellectuals, by evolving them as empathetic and responsible citizens through continuous improvement.

Mission:

- **IM1:** To offer outcome-based education and enhancement of technical and practical skills.
- **IM2:** To Continuous assess of teaching-learning process through institute-industry collaboration.
- **IM3:** To be a centre of excellence for innovative and emerging fields in technology development with state-of-art facilities to faculty and students' fraternity.
- **IM4:** To Create an enterprising environment to ensure culture, ethics and social responsibility among the stakeholders.


Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(VIII) Ibrahimpatnam (M) R.R. Dist-501 510


PRINCIPAL
Sri Indu Institute of Engineering & Tech.
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

PROGRAM OUTCOMES

PO1: ENGINEERING KNOWLEDGE: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: PROBLEM ANALYSIS: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: DESIGN/DEVELOPMENT OF SOLUTIONS: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: MODERN TOOL USAGE: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: THE ENGINEER AND SOCIETY: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: ENVIRONMENT AND SUSTAINABILITY: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: ETHICS: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: INDIVIDUAL AND TEAM WORK: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: COMMUNICATION: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.

PO11: PROJECT MANAGEMENT AND FINANCE: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: LIFE-LONG LEARNING: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

**Head of the Department
Department of H&S**

**SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(V) Ibrahimpatnam (M) R.R. Dist-501 510**

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY**B.Tech. in COMPUTER SCIENCE AND ENGINEERING (IOT)****COURSE STRUCTURE, I YEAR SYLLABUS (BR22 Regulations)****Applicable from Academic Year: 2022-23 Batch****I Year I Semester**

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	AP102BS	Applied Physics	3	1	0	4
3.	CS103ES	Programming for Problem Solving	3	0	0	3
4.	ME102ES	Engineering Workshop	0	1	3	2.5
5.	EN104HS	English for Skill Enhancement	2	0	0	2
6.	CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	AP105BS	Applied Physics Laboratory	0	0	3	1.5
8.	CS107ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	EN107HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	*MC101ES	Environmental Science	3	0	0	0
11.		Induction Programme				
		Total	14	3	12	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	CH203BS	Engineering Chemistry	3	1	0	4
3.	ME201ES	Computer Aided Engineering Graphics	1	0	4	3
4.	EE201ES	Basic Electrical Engineering	2	0	0	2
5.	EC201ES	Electronic Devices and Circuits	2	0	0	2
6.	CH206BS	Engineering Chemistry Laboratory	0	0	2	1
7.	EE202ES	Basic Electrical Engineering Laboratory	0	0	2	1
8.	CS201ES	Python Programming Laboratory	0	1	2	2
9.	CS203ES	IT Workshop	0	0	2	1
		Total	11	3	12	20

COMPUTER AIDED ENGINEERING GRAPHICS
(Course Code: ME201ES)

B.Tech. I Year II Sem.

L T P C
1 0 4 3

Course Objectives:

- To develop the ability of visualization of different objects through technical drawings
- To acquire computer drafting skill for communication of concepts, ideas in the design of engineering products

Course Outcomes: At the end of the course, the student will be able to:

- Apply computer aided drafting tools to create 2D and 3D objects
- sketch conics and different types of solids
- Appreciate the need of Sectional views of solids and Development of surfaces of solids
- Read and interpret engineering drawings
- Conversion of orthographic projection into isometric view and vice versa manually and by using computer aided drafting

UNIT – I:

Introduction to Engineering Graphics: Principles of Engineering Graphics and their Significance, Scales – Plain & Diagonal, Conic Sections including the Rectangular Hyperbola – General method only. Cycloid, Epicycloid and Hypocycloid, Introduction to Computer aided drafting – views, commands and conics

UNIT- II:

Orthographic Projections: Principles of Orthographic Projections – Conventions – Projections of Points and Lines, Projections of Plane regular geometric figures. Auxiliary Planes. Computer aided orthographic projections – points, lines and planes

UNIT – III:

Projections of Regular Solids – Auxiliary Views - Sections or Sectional views of Right Regular Solids – Prism, Cylinder, Pyramid, Cone – Auxiliary views, Computer aided projections of solids – sectional views

UNIT – IV:

Development of Surfaces of Right Regular Solids – Prism, Cylinder, Pyramid and Cone, Development of surfaces using computer aided drafting

UNIT – V:

Isometric Projections: Principles of Isometric Projection – Isometric Scale – Isometric Views – Conventions – Isometric Views of Lines, Plane Figures, Simple and Compound Solids – Isometric Projection of objects having non- isometric lines. Isometric Projection of Spherical Parts. Conversion of Isometric Views to Orthographic Views and Vice-versa –Conventions. Conversion of orthographic projection into isometric view using computer aided drafting.

TEXT BOOKS:

1. Engineering Drawing N.D. Bhatt / Charotar
2. Engineering Drawing and graphics Using AutoCAD Third Edition, T. Jeyapooan, Vikas:
S. Chand and company Ltd.

REFERENCE BOOKS:

1. Engineering Drawing, Basant Agrawal and C M Agrawal, Third Edition McGraw Hill
2. Engineering Graphics and Design, WILEY, Edition 2020
3. Engineering Drawing, M. B. Shah, B.C. Rane / Pearson.
4. Engineering Drawing, N. S. Parthasarathy and Vela Murali, Oxford
5. Computer Aided Engineering Drawing – K Balaveera Reddy et al – CBS Publishers

Note: - External examination is conducted in conventional mode and internal evaluation to be done by both conventional as well as using computer aided drafting.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

Course: Computer Aided Engineering Graphics (C123)

Class: I-B.TECH CSE(IOT)

Course Outcomes

After completing this course the student will be able to:

- C123.1 : Read and interpret engineering drawings (Analyzing)
- C123.2 : Sketch conics and different types of solids (Applying)
- C123.3 : Draw projection of points, lines, planes and auxiliary planes(Creating)
- C123.4 : Appreciate the need of Sectional views of solids and Development of surfaces of solids (Evaluating)
- C123.5 : Apply computer aided drafting tools to create 2D and 3D objects (Remembering)
- C123.6 : Conversion of orthographic projection into isometric view and vice versa manually and by using computer aided drafting (Understanding)



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.
(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)
Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

CO's Mapping with PO/PSO

Mapping of course outcomes with program outcomes:

High -3 Medium -2 Low-1

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C123.1	3	-	-	-	-	-	-	1	-	1	-	-
C123.2	3	-	-	-	-	-	-	1	-	1	-	-
C123.3	2	-	-	-	-	-	-	1	-	1	-	-
C123.4	2	-	-	-	-	-	-	1	-	2	-	-
C123.5	3	-	-	-	-	-	-	1	-	2	-	-
C123.6	3	-	-	-	-	-	-	1	-	2	-	-
C123	2.6	-	-	-	-	-	-	1	-	1.5	-	-



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

CO-PO mapping Justification

PO1. ENGINEERING KNOWLEDGE: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO8. ETHICS: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO10: COMMUNICATION: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.

C123.1 Read and interpret engineering drawings (Analyzing)

	Justification
PO1	Student able to understand the fundamentals of engineering graphics(level 1)
PO8	Student able to apply the principle of scales, conics and Cycloidal curves (level 1)
PO10	Student can read and interpret the drawings for effective communication (level 1)

C123.2: Sketch conics and different types of solids (Applying)

	Justification
PO1	Student able to understand the fundamentals of Projection of points, lines and planes(level 1)
PO8	Student able to apply the principles of Projection of points, lines and planes(level 2)
PO10	Student can read and interpret the drawings for effective communication (level 2)

C123.3: Draw projection of points, lines, planes and auxiliary planes (Creating)

	Justification
PO1	Student able to understand the fundamentals of Projection of solids(level 2)
PO8	Student able to apply the principles of Projection of solids (level 3)
PO10	Student can read and interpret the drawings for effective communication (level 3)

C123.4: Appreciate the need of Sectional views of solids and Development of surfaces of solids (Evaluating)

	Justification
PO1	Student able to understand the fundamentals of Developments of surfaces (level 1)
PO8	Student able to apply the principles of Developments of surfaces (level 2)
PO10	Student can read and interpret the drawings for effective communication (level 2)

C123.5: Apply computer aided drafting tools to create 2D and 3D objects (Remembering)

	Justification
PO1	Student able to understand the fundamentals of Isometric projections(level 2)
PO8	Student able to apply the principles of Isometric projections (level 3)
PO10	Student can read and interpret the drawings for effective communication (level 1)

C123.6: Conversion of orthographic projection into isometric view and vice versa manually and by using computer aided drafting (Understanding)

	Justification
PO1	Student able to understand the fundamentals of Orthographics projections (level 1)
PO8	Student able to apply the principles of Orthographics projections (level 2)
PO10	Student can read and interpret the drawings for effective communication (level 1)



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous Institution, Accredited by NAAC with A+ Grade

Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Tlangana - 501 510

<https://siiet.ac.in/>

Lr. No. SIET/BR22/Academic Calendar/2022/02

Date: 15.12.2022

REVISED ACADEMIC CALENDAR I.B.TECH FOR THE ACADEMIC YEAR 2022-23 (BR22-REGULATIONS)

Dr. I. Satyanarayana,
Principal.

X3

To,
All the HOD's
Sir,

Sub: SIET (Autonomous)-Academic & Evaluation-Revised Academic Calendar for **I.B.Tech - I & II Semesters** for the academic year 2022-2023-Reg.

The approved Academic Calendar for **I.B.Tech - I & II Semesters** for the academic year 2022-23 is given below.

I-SEMESTER

S. NO	Description	Period		Duration
		From	To	
1.	Commencement of I Semester class work (including Induction programme)	03.11.2022		
2.	1 st Spell of Instructions	03.11.2022	28.12.2022	8 Weeks
3.	I Mid Examinations	29.12.2022	04.01.2023	1 Week
4.	Submission of First Mid Term Exam Marks to the Autonomous Section on or before	10.01.2023		
5.	2 nd Spell of Instructions	05.01.2023	02.03.2023	8 Weeks
6.	Second Mid Term Examinations	03.03.2023	09.03.2023	1 Week
7.	Preparation & Practical Examinations	10.03.2023	16.03.2023	1 Week
8.	Submission of Second Mid Term Exam Marks to the Autonomous Section on or before	16.03.2023		
9.	I Semester End Examinations	17.03.2023	01.04.2023	2 Weeks

II-SEMESTER

S. NO	Description	Period		Duration
		From	To	
1.	Commencement of II Semester class work	03.04.2023		
2.	1 st Spell of Instructions (including Summer Vacation)	03.04.2023	10.06.2023	10 Weeks
	Summer Vacation	15.05.2023	27.05.2023	2 Weeks
3.	I Mid Examinations	12.06.2023	17.06.2023	1 Week
4.	Submission of First Mid Term Exam Marks to the Autonomous Section on or before	23.06.2023		
5.	2 nd Spell of Instructions	19.06.2023	12.08.2023	8 Weeks
6.	II Mid Term Examinations	14.08.2023	19.08.2023	1 Week
7.	Preparation & Practical Examinations	21.08.2023	26.08.2023	1 Week
8.	Submission of Second Mid Term Exam Marks to the Autonomous Section on or before	26.08.2023		
9.	II Semester End Examinations	28.08.2023	09.09.2023	2 Weeks

Commencement of Class Work for II B.Tech I Semester - 11.09.2023

K. Srinivas
CONTROLLER OF EXAMINATIONS
Sri Indu Institute of Engineering and Technology
(An Autonomous Institution Under JNTUH)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.

K. Srinivas
CONTROLLER OF EXAMINATIONS
Sri Indu Institute of Engineering and Technology
(An Autonomous Institution Under JNTUH)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.

K. Srinivas
PRINCIPAL
Sri Indu Institute of Engineering and Technology
(An Autonomous Institution Under JNTUH)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.



Computer Aided Engineering Graphics: Lesson Plan

L/H	Topic	TA/TM	Reference book
1	Introduction to Engineering Graphics	Lecture Method	T-1, R-1
2	Principles of Engineering Graphics and their Significance	Lecture Method	T-1, R-1
3	Scales – Plain	Lecture Method	T-1, R-1
4.	& Diagonal	Lecture Method	T-1, R-1
5.	Conic Sections- Ellipse methods	Lecture Method	T-1, R-1
6	Conic Sections- Parabola Methods	Lecture Method	T-1, R-1
7	Conic Sections – Hyperbola General Method	Lecture Method	T-1, R-1
8	Construction of Cycloid,	Lecture Method	T-1, R-1
9	Construction of Epicycloid	Lecture	T-1, R-1
10	Construction of Hypocycloid	Lecture Method,	T-1, R-1
11	Introduction to Computer aided drafting views, commands	Lecture Method,	T-1, R-1
12	and conics Orthographic Projections Principles of Orthographic Projections	Lecture Method	T-1, R-1
13	Introduction to Projections	Lecture Method	T-1, R-1
14	Conventions Projections of Points	Lecture Method	T-1, R-1
15	Projections of Lines	Lecture Method,	T-1, R-1
16	Projections of Plane regular geometric	Lecture Method	T-1, R-1
17	figures Auxiliary Planes	Lecture Method	T-1, R-1
18	Computer aided orthographic projections – points, lines and planes	Lecture Method	T-1, R-1
19	Introduction to Projections of Solids	Lecture Method	T-1, R-1
20	Projections of Regular Solids Auxiliary Views	Lecture Method	T-1, R-1
21	Sectional views of Right Regular Solids – Prism: triangular,square	Lecture Method	T-1, R-1
22	Prism: pentagonal,hexagonal	Lecture Method	T-1, R-1
23	Pyramid: triangular,square	Lecture Method	T-1, R-1
24	Pyramid: pentagonal,hexagonal	Lecture Method	T-1, R-1
25	Solid of revolution:Cylinder and	Lecture Method	T-1, R-1
26	Solid of revolution: Cone – Auxiliary views	Lecture Method	T-1, R-1
27	Computer aided projections of solids	Lecture Method	T-1, R-1
28	Sectional Views	Lecture Method	T-1, R-1
29	Introduction of Development of Surfaces	Lecture Method	T-1, R-1
30	Development of Surfaces of Right Regular Solids	Lecture Method	T-1, R-1
31	Prism	Lecture Method	T-1, R-1
32	Cylinder	Lecture Method	T-1, R-1

33	Pyramid	Lecture Method	T-1, R-1
34	Cone	Lecture	T-1, R-1
35	Intersection of solid	Lecture Method	T-1, R-1
36	Intersection of prism vs prism	Lecture Method	T-1, R-1
37	Cylinder vs Cylinder	Lecture Method	T-1, R-1
38	Development of surfaces using computer aided drafting	Lecture Method	T-1, R-1
39	Introduction of Isometric Projections	Lecture Method	T-1, R-1
40	Principles of Isometric Projection	Lecture Method	T-1, R-1
41	Isometric Scale	Lecture Method	T-1, R-1
42	Isometric Views	Lecture Method	T-1, R-1
43	Isometric Scale, Isometric Views Conventions	Lecture Method	T-1, R-1
44	Isometric Views of Lines, Plane Figures	Lecture Method	T-1, R-1
45	Simple and Compound Solids	Lecture Method	T-1, R-1
46	Isometric Projection of objects having non- isometric lines	Lecture Method	T-1, R-1
47	Isometric Projection of Spherical Parts.	Lecture Method	T-1, R-1
48	Conversion of Isometric Views to Orthographic Views	Lecture Method	T-1, R-1
49	Vice-versa –Conventions	Lecture Method	T-1, R-1
50	Conversion of orthographic projection into isometric view using computer aided drafting	Lecture Method	T-1, R-1
51	Practice sessions	Video Lecture Method	V-1
52	Practice sessions	Video Lecture Method	V-2
53	Practice sessions	Video Lecture Method	V-3
54	Practice sessions	Video Lecture Method	V-4
55	Practice sessions	Video Lecture Method	V-5
56	Practice sessions	REVISION	W-1,2,3
57	Practice sessions	REVISION	W- 4,5

TEXTBOOKS :

T-1 Engineering Drawing N.D. Bhatt / Charotar

T-2 Engineering Drawing and graphics Using AutoCAD Third Edition, T. Jeyapoovan, Vikas: S. Chand and company Ltd.

REFERENCES :

R-1 Engineering Drawing, Basant Agrawal and C M Agrawal, Third Edition McGraw Hill

R-2 Engineering Graphics and Design, WILEY, Edition 2020

R-3 Engineering Drawing, M. B. Shah, B.C. Rane / Pearson.

R-4 Engineering Drawing, N. S. Parthasarathy and Vela Murali, Oxford

R-5 Computer Aided Engineering Drawing – K Balaveera Reddy et al – CBS Publishers



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana

WEB REFERENCES :

- 1) <https://books.google.co.in/books?id=dgsbEAAAQBAJ&lpg=PP2&pg=PA22#v=onepage&q&f=true>
- 2) https://www.academia.edu/33675384/Introduction_to_AutoCAD_2004_pdf
- 3) <https://nptel.ac.in/courses/112103019>
- 4) https://www.academia.edu/83299582/Textbook_of_Engineering_Drawing

VIDEO REFERENCES :

- 1) <http://www.digimat.in/nptel/courses/video/105104148/L01.html>
- 1) <https://archive.nptel.ac.in/courses/112/102/112102304/#>
- 2) <https://archive.nptel.ac.in/courses/112/105/112105294/>
- 3) <http://www.nptelvideos.com/lecture.php?id=14722>
- 4) <https://www.youtube.com/@BSAUNIV>

**GAP WITHIN THE SYLLABUS – MAPPING TO CO. PO**

1. Vernier Scale, Comparative Scales, Scale of Chords, Involutives, Spirals, Helix, Development of oblique objects
2. Course Outcomes
3. After completing this topic the student will be able to:
4. Draw Vernier Scale, Comparative Scale and Scale of Chords. (Applying)
5. Draw Involutives, Spirals and Helix Curves (Applying)
6. Develop oblique surfaces using Development of surface Method (Applying)

Mapping of course outcomes with program outcomes:

High -3 Medium -2 Low-1

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	2		-	-	-	-	-	3	-	2	-	-
2	3		-	-	-	-	-	2	-	2	-	-
3	2		-	-	-	-	-	2	-	3	-	-



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

GAP BEYOND THE SYLLABUS-MAPPING TO PO/PSO

1. Regular industrial visits help students to know the information useful for knowledge upgradation.
2. Students are encouraged to take part in Technical Quizzes and various co-curricular activities to ensure their overall development
3. Teaching at least a few portions giving practical demonstration to create interest among the students
4. Introducing current Scientific and Technological innovations and development
5. Computer aided learning tools are also used for better visual display for the engineering graphics

Mapping to PO/PSO:

High -3 Medium -2 Low-1

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	-	-	-	2	-	-	-	-	-	-	-	2
2	-	-	-	-	-	-	-	-	-	2	-	-
3	-	-	-	-	-	-	-	-	-	-	3	-
4	-	-	-	-	-	-	-	-	1	-	-	-
5	-	-	-	-	2	-	-	-	-	-	-	-



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana

CAEG LECTURE NOTES

<https://drive.google.com/file/d/1UKOvrVugYweJGpwkyTjkT16cE0ph9i-7/view?usp=sharing>



POWERPOINT PRESENTATION

Contents	
1.	Scales
2.	Engineering Curves - I
3.	Engineering Curves - II
4.	Loci of Points
5.	Orthographic Projections - Basics
6.	Conversion of Pictorial View into Orthographic Views
7.	Projections of Points and Lines
8.	Projection of Planes
9.	Projection of Solids
10.	Sections & Development
11.	Intersection of Surfaces
12.	Isometric Projections
13.	Exercises
14.	Solutions – Applications of Lines

PLAIN SCALE:- This type of scale represents two units or a unit and its sub-division.

PROBLEM NO. 1:- Draw a scale 1 cm = 1 m to read decimeters, to measure maximum distance of 6 m. Show on it a distance of 4 m and 6 dm.

CONSTRUCTION:- $R.F. = \frac{\text{DIMENSION OF DRAWING}}{\text{DIMENSION OF OBJECT}}$

a) Calculate R.F. = $\frac{1\text{cm}}{1\text{m}} = \frac{1}{100}$
 Length of scale = R.F. X max. distance
 = $\frac{1}{100} \times 600\text{ cm}$
 = 6 cms

b) Draw a line 6 cm long and divide it in 6 equal parts. Each part will represent larger division unit.
 c) Sub divide the first part which will represent second unit or fraction of first unit.
 d) Place (0) at the end of first unit. Number the units on right side of Zero and subdivisions on left-hand side of Zero. **Take height of scale 5 to 10 mm for getting a look of scale.**
 e) After construction of scale mention its RF and name of scale as shown.
 f) Show the distance 4 m 6 dm on it as shown.

R.F. = 1/100
PLANE SCALE SHOWING METERS AND DECMETERS.

CONIC SECTIONS
 ELLIPSE, PARABOLA AND HYPERBOLA ARE CALLED CONIC SECTIONS BECAUSE THESE CURVES APPEAR ON THE SURFACE OF A CONE WHEN IT IS CUT BY SOME TYPICAL CUTTING PLANES.

OBSERVE ILLUSTRATIONS GIVEN BELOW.

Section Plane Through Generators
Ellipse

Section Plane Parallel to Axis.
Hyperbola

Section Plane Parallel to end generator.
Parabola



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

PREVIOUS QUESTION PAPERS

<https://drive.google.com/file/d/17Mgybsa7J67ii-80tUNWb5fxfsPs216c/view?usp=sharing>

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous Institution, Accredited by NAAC with A+ Grade

Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Sheriguda(V), Ibrahimpatnam(M), R.R Dist., Telangana – 501 510

I B.Tech II SEM I - Mid Examinations, June-2023

X3

BR22

Set – II

Branch: CSE (IOT) & AI&DS

Date: 16-06-2023 (AN)

Subject: Computer Aided Engineering Graphics

Marks: 20

Time: 2 Hours

Part-B

Answer any **FOUR** Questions. All Question Carry Equal Marks

4*5=20 Marks

1. If 1 cm long line on a map represents a real length of 4 m. Calculate the R.F. and draw a diagonal scale long enough to measure up to 50 metres. Show a distance of 44.5 m on it.

Understanding(L2)

2. Draw a parabola of base 120 mm and axis 80 mm by oblong method. **Creating (L6)**

3. Draw the projections of the following points on a common reference line keeping the distance between their projectors 30 mm apart.

Analyzing(L4)

- i) Point A is lying 70 mm above the H.P. and on the V.P.
- ii) Point B is lying on the H.P. and 50 mm behind the V.P
- iii) Point C is lying 70 mm above the H.P. and on the V.P
- iv) Point D is lying on the H.P. and 50 mm in front of the V.P.

4. A 70 mm long line PQ is inclined at 45° to the V.P. Its end P lies on the H.P. and 15mm in front of the V.P. The top view of the line measures 60 mm. Draw the projections of the line PQ and determine its inclination with the H.P. **Understanding(L2)**

5. Draw the projections of a regular hexagon of 25 mm side, having one of its sides in the H.P. and inclined at 60° to the V.P, and its surface making an angle of 45° with the H.P.

Applying (L3)

6. A hexagonal pyramid of base side 30 mm and axis 60 mm, has an edge of its base on the ground inclined at 45° to the V.P. and the axis is inclined at 30° to the H.P. Draw its projections.

Creating (L6)

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous Institution, Accredited by NAAC with A+ Grade

Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Sheriguda(V), Ibrahimpatnam(M), R.R Dist., Telangana – 501 510

I B.Tech II SEM II- Mid Examinations, August-2023

X3

BR22

Set – I



Branch: CIVIL, CSE (AI&ML) & CSE (IOT)

Date: 19-08-2023 (FN)

Subject: Computer Aided Engineering Graphics

Marks: 20

Time: 2 Hours

Part-B

Answer any **FOUR** Questions. All Question Carry Equal Marks

4*5=20 Marks

1. A pentagonal pyramid of 25mm edge of base and 60mm height is resting on the corner of its base on H.P and the slant edge containing that corner is inclined at 45° with HP. Draw the projections of the solid, when its axis makes an angle of 30° with VP

Creating (L6)

2. A cone of base diameter 55 mm and axis 70 mm is resting on its base on the H.P. A section plane perpendicular to V.P. and inclined at 45° to H.P., bisects the axis of the cone. Draw the development of its lateral surface.

Applying (L3)

3. A cone of base circle diameter 40 and height 60 is resting on the ground on its base. It is cut by a section plane perpendicular to VP and inclined at an angle of 30° to HP. Section plane is passing through the axis apppoint 20mm from the base of the cone. Draw the development of lateral surface of top part of the solid.

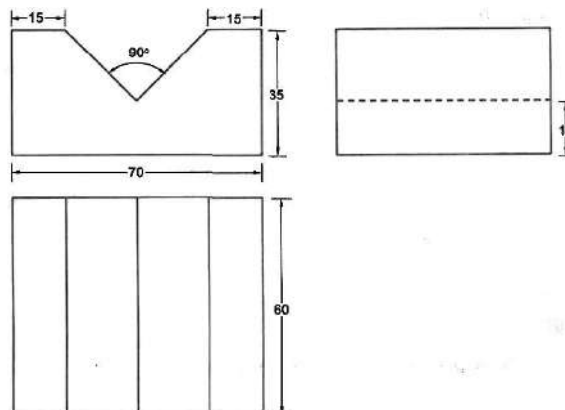
Applying (L3)

4. A cylinder of base diameter 50 mm and axis 70 mm is resting on ground with its axis vertical. It is cut by a section plane perpendicular to the V.P., inclined at 45° to the H.P., passing through the top of a generator and cuts all the other generators. Draw the development of its lateral surface.

Applying (L3)

5. Draw the isometric view of the machine parts shown in figure 1. (All dimensions are in mm)

Understanding(L2)



6. Draw the isometric projection of a cone of base diameter 50 mm and axis 60 mm. The cone has its base on the H.P

Understanding(L2)

MID I & MID-II KEY link

<https://drive.google.com/file/d/1x3ONRfgWrbjfuCoJ-Fg8eyzztnBJOWGX/view?usp=sharing>

MID-I & MID-II SAMPLE STUDENT SCRIPTS Link

https://drive.google.com/file/d/1SIFSy2XD7XGWfWV7tJuTMEYOJXDX_JO8/view?usp=sharing

https://drive.google.com/file/d/1T4G6X1Hsk_vSNCLJcC9T1VIQfpWmWhO4/view?usp=sharing



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.
(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)
Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

I-MID CAEG ASSIGNMENT

1. Construct a scale of 1:40 to read metres and decimetres and long enough to measure up to 6 metres. Mark a distance of 4.7 m on it. **Understanding(L2)**
2. Construct a scale of 1:50 to read metres, decimetres and centimetres and long enough to measure up to 5 m. Mark a distance of 2.56 m on it. **Understanding(L2)**
3. Draw an ellipse when the distance of its focus from its directrix is 50 mm and eccentricity is $2/3$. Also, draw a tangent and a normal to the ellipse at a point 70 mm away from the directrix **Creating(L6)**
4. A point moves in a plane in such a way that the sum of its distances from two fixed points 100 mm apart is 130 mm. Name and draw the locus of this point. **Understanding(L2)**
5. Draw a parabola when the distance between its focus and directrix is 50 mm. Also, draw a tangent and a normal at a point 70 mm from the directrix. **Creating(L6)**
6. Draw a hyperbola when the distance of its focus from its directrix is 50 mm and eccentricity is $3/2$. Also, draw a tangent and a normal to the hyperbola at a point 25 mm from the directrix. **Creating(L6)**
7. Draw a cycloid of a circle of diameter 50 mm for one revolution. Also, draw a tangent and a normal to the curve at a point 35 mm above the base line. **Applying (L6)**
8. Draw the projections of the following points on a common reference line keeping the distance between their projectors 30 mm apart. **Understanding (L2)**
 - (a) Point A is 20 mm below the H.P. and 50 mm in front of the V.P.
 - (b) Point B is in the H.P. and 40 mm behind the V.P.
 - (c) Point C is 30 mm in front of the V.P. and in the H.P.
 - (d) Point D is 50 mm above the H.P. and 30 mm behind the V.P.
 - (e) Point E is 20 mm below the H.P. and 50 mm behind the V.P.
 - (f) Point F is in the V.P. and 50 mm below the H.P.
9. 70 mm long line PQ, has its end P 20 mm above the H.P. and 30 mm in front of the V.P. The line is inclined at 45° to the H.P. and 30° to the V.P. Draw its projections. **Understanding (L2)**
10. A rectangular plane of edges 35 mm and 70 mm is resting on an edge in the H.P. The surface is inclined to the H.P. such that the top view appears as a square. Draw its projections when the edge resting on the H.P. is inclined at 30° to the V.P. **Creating (L6)**



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

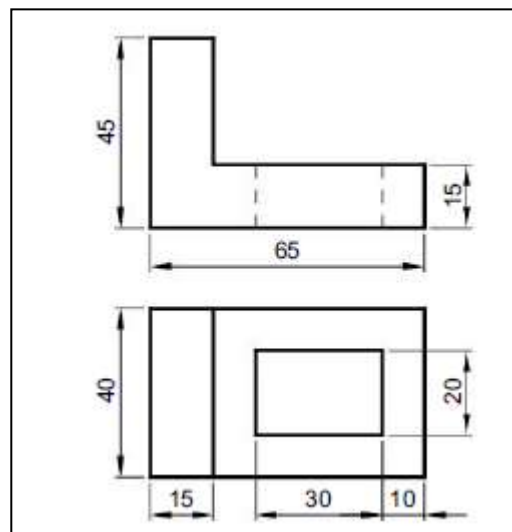
Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

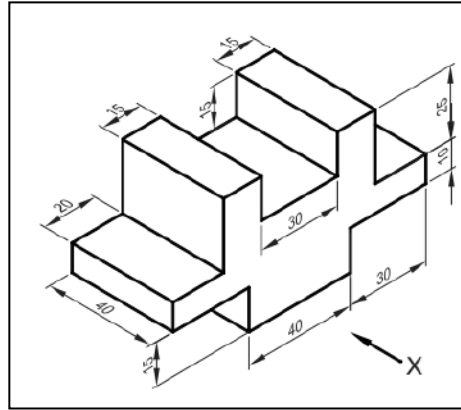
Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

II-MID CAEG ASSIGNMENT

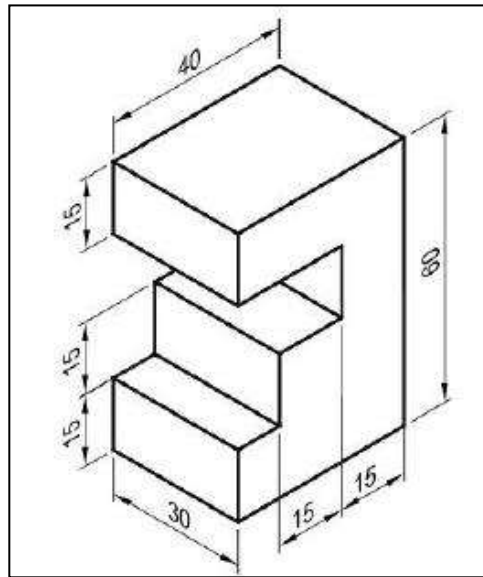
1. Draw the projections of a cube of edge 40 mm resting on one of its corners on the H.P. with a solid diagonal perpendicular to the V.P. **Applying (L6)**
2. A pentagonal pyramid of base side 30 mm and axis 60 mm rests on a corner of its base on the H.P. such that its apex is 55 mm above the ground. A vertical plane containing the corner of the base that lies on the H.P. and the axis is inclined at 30° to the V.P. Draw its projections. **Applying (L6)**
3. A hexagonal pyramid of base side 30 mm and axis 60 mm, has an edge of its base on the ground inclined at 45° to the V.P. and the axis is inclined at 30° to the H.P. Draw its projections. **Applying (L6)**
4. A pentagonal prism of base side 30 mm and height 60 mm rests on one of its base side on the H.P. inclined at 30° to the V.P. Its axis is inclined at 45° to the H.P. Draw its projections. **Applying (L6)**
5. A pentagonal prism of base side 30 mm and axis 70 mm is resting on its base on the H.P. with a rectangular face parallel to the V.P. It is cut by an auxiliary inclined plane (A.I.P.) whose V.T. is inclined at 45° to the reference line and passes through the mid-point of the axis. Draw the development of the lateral surface of the truncated prism. **Creating(L6)**
6. A cone of base diameter 50 mm and axis 60 mm is resting on its base on the H.P. A section plane perpendicular to V.P. and inclined at 45° to H.P., bisects the axis of the cone. Draw the development of its lateral surface. **Creating(L6)**
7. Draw the isometric view of the machine parts shown in figure (All dimensions are in mm). **Applying (L6)**



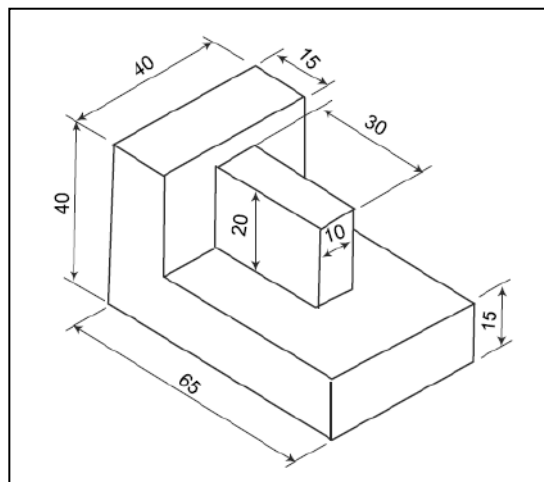
8. Draw the front view, top view and left side view of the following object shown in figure below. (All dimensions in the figure are in mm). **Applying (L6)**



9. Pictorial view of an object is shown in Fig.(a). Using first angle projection, draw Its.
 (i) front view,
 (ii) top view and
 (iii) side view. **Applying (L6)**



10. Draw the following views for the object shown in figure. All dimensions are in mm.
 (a) Front view
 (b) Top view
 (c) Left side view **Applying (L6)**





SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

I-MID & II-MID CAEG ASSIGNMENT PROOFS

MID-I & MID-II link

<https://drive.google.com/file/d/1cIOckxzPfvX53n0SP5ugc8bLExs4y7HN/view?usp=sharing>

<https://drive.google.com/file/d/1mYUQB6Je127jbfLcasiSA9jvTQOzMCo4/view?usp=sharing>



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

SCHEME OF EVALUATION WITH CO and BTL MAPPING

SCHEME OF EVALUATION-CAEG(MID-I)(Set-I)		
Instructions:		
a) Any answer by alternate method should be valued and suitably awarded.		
b) All answers (including extra, stuck off and repeated) should be valued. Answers with maximum marks must be considered.		
Qn No	Description of Answer	Marks
1.	Finding length of scale	1
	Drawing of scale	3
	Showing units	1
2.	Drawing of rectangle	1
	Drawing of Ellipse	2
	Showing points	2
3.	Drawing of circle	2
	Showing complete Cycloidal curve	3
4.	Projection of points complete answer	5
5.	Projection of straight line answer in VP	2.5
	Projection of straight line answer in HP	2.5
6.	Projection of solid stage 1	1.5
	Projection of solid stage 2	1.5
	Projection of solid stage 3	2
TOTAL		20



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

SCHEME OF EVALUATION-CAEG(MID-II)(Set-2)		
Instructions:		
a) Any answer by alternate method should be valued and suitably awarded.		
b) All answers (including extra, stuck off and repeated) should be valued. Answers with maximum marks must be considered.		
Qn No	Description of Answer	Marks
1	Projection of solid stage 1	1.5
	Projection of solid stage 2	1.5
	Projection of solid stage 3	2
2.	Cone front view and top view	2.5
	Development of surface of cone	2.5
3.	Cone front view and top view	2.5
	Development of surface of cone	2.5
4	Development cylinder front view and top view	2.5
5.	Development of cylinder	2.5
6.	Drawing of Isometric view	5
TOTAL		20

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510



Result Analysis:

CSE-IOT

Course Title	COMPUTER AIDED ENGINEERING GRAPHICS
Course Code	ME201ES
Programme	B.Tech
Year & Semester	I year I- semester
Regulation	BR22
Course Faculty	M Yadhagiri, Assistant Professor , H&S

Weak Students:

Weak Students:

S No	Roll no	Intermediate Marks	Internal-I Status (40)	Internal-II Status (40)
1	22X31A6907	55.6%	27	23
2	22X31A6932	60 %	28	31
3	22X31A6941	60 %	30	20
4	22X31A6955	55 %	26	21
5	22X31A6959	54%	29	22
6	22X31A6960	51 %	28	27
7	22X31A6962	60 %	25	27

Advanced learners:

S No	Roll No	Intermediate Marks	Gate Material
1	22X31A6903	93.8%	Topics: Engineering Drawing, Scales, Conic Sections, Engineering Curves, Projections, Projection of Points, Lines and Planes, Projection of Solids, Development and Intersection of Solids, General Principles of Design, Safety, Work Study and Ergonomics, Fire Safety, Safety In Industries
2	22X31A6910	96.2 %	
3	22X31A6929	97 %	
4	22X31A6931	96.2 %	
5	22X31A6942	94 %	
6	22X31A6943	96 %	
7	222X31A6954	94%	



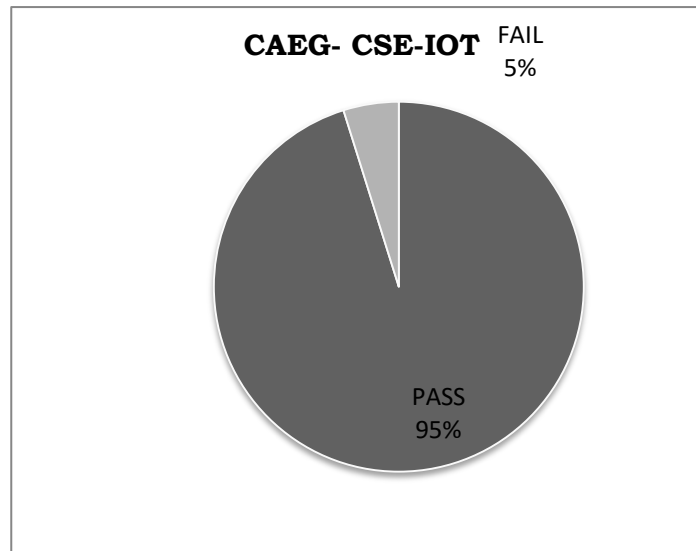
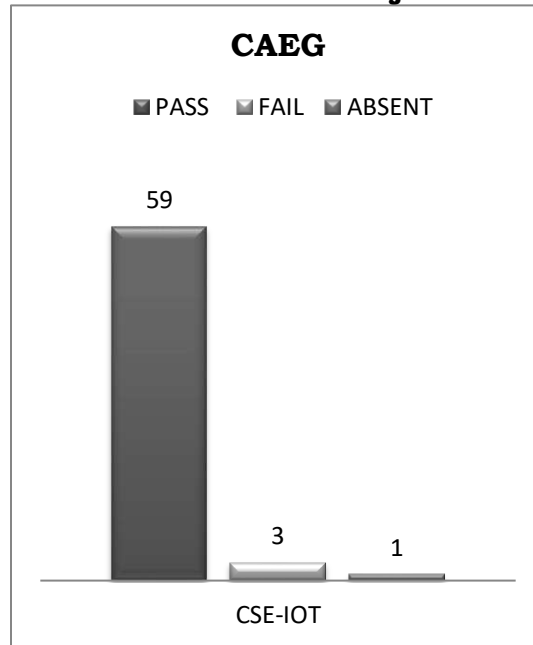
SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.
(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)
Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana –
501510

RESULT ANALYSIS AT THE END OF SEMISTER

Branch :CSE-IOT

Subject: CAEG





SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist.,
Telangana 501510

DEPARTMENT OF HUMANITIES AND SCIENCE
REMEDIAL CLASSES TIME TABLE

DAY/ PERIOD	MON 4.00-5.00	TUE 4.00-5.00	WED 4.00-5.00	THUR 4.00-5.00	FRI 4.00-5.00	SAT 4.00-5.00
CSE-A	M&C	PPS	BEE	CAEG	EC	M&C
CSE-B	BEE	M&C	CAEG	PPS	EC	BEE
CSE-C	EC	CAEG	BEE	M&C	PPS	EC

DAY/ PERIOD	MON 4.00-5.00	TUE 4.00-5.00	WED 4.00-5.00	THUR 4.00-5.00	FRI 4.00-5.00	SAT 4.00-5.00
DS	M&C	EC	BEE	PPS	CAEG	EC
CYBER	PPS	M&C	EC	CAEG	BEE	M&C

DAY/ PERIOD	MON 4.00-5.00	TUE 4.00-5.00	WED 4.00-5.00	THUR 4.00-5.00	FRI 4.00-5.00	SAT 4.00-5.00
AIML-A	AP	PPS	M&C	CAEG	AP	M&C
AIML-B	M&C	CAEG	PPS	AP	M&C	CAEG

DAY/ PERIOD	MON 4.00-5.00	TUE 4.00-5.00	WED 4.00-5.00	THUR 4.00-5.00	FRI 4.00-5.00	SAT 4.00-5.00
AI&DS	M&C	ENG	AP	PPS	AP	PPS
IOT	PPS	AP	M&C	CAEG	M&C	CAEG

DAY/ PERIOD	MON 4.00-5.00	TUE 4.00-5.00	WED 4.00-5.00	THUR 4.00-5.00	FRI 4.00-5.00	SAT 4.00-5.00
ECE	AP	ENG	M&C	PPS	AP	PPS
CIVIL	CAEG	AP	M&C	PPS	M&C	CAEG


Head of the Department
 Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
 Sheriguda(V) Ibrahimpatnam (M) R.R. Dist-501 510


PRINCIPAL
 Sri Indu Institute of Engineering & Tech
 Sheriguda(VIII), Ibrahimpatnam
 R.R. Dist. Telangana-501 510



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities & Sciences

Course Outcome Attainment (Internal Examination-1)

Name of the faculty : Branch & Section: Course
 M YADHAGIRI IOT CAEG
 Academic Year: 2022-2023
 Examination: I Internal
 Year: I Semester: II

S.N	Name: HT No.	Q1a	Q1b	Q1c	Q2a	Q2b	Q2c	Q3a	Q3b	Q3c	Q4a	Q4b	Q4c	Q5a	Q5b	Q5c	Q6a	Q6b	Q6c	OB	thee	A1	
Max. Marks ==>		5			5			5			5			5			5			10	5	5	
1	22X31A6901	5			5			4			4										9	5	5
2	22X31A6902				5			3			4										8	5	5
3	22X31A6903	5			5			4			4			3							6	5	5
4	22X31A6904				3			3			1										6	5	5
5	22X31A6905				5			5													6	5	5
6	22X31A6906	5			3			5			5										6	5	5
7	22X31A6907	3			4			2													8	5	5
8	22X31A6908																					5	5
9	22X31A6909	##			5			5			5										8	5	5
10	22X31A6910	##			5						5			5							6	5	5
11	22X31A6911	5			5			5			5			5							6	5	5
12	22X31A6912	4			4			4													4	5	5
13	22X31A6913	5			4			4			4										6	5	5
14	22X31A6914				4			5													6	5	5
15	22X31A6915	2			5			4													6	5	5
16	22X31A6916	4			4			4													7	5	5
17	22X31A6917	0			5			5													8	5	5
18	22X31A6918																					5	5
19	22X31A6919	5			5			4			4										6	5	5
20	22X31A6920	5			5			5			5										7	5	5
21	22X31A6921	1			4			2			5										9	5	5
22	22X31A6922	4			3			2			1										6	5	5
23	22X31A6923	5			5			5			5										7	5	5
24	22X31A6924	2			3			4													6	5	5
25	22X31A6925	5			5			5						5							7	5	5
26	22X31A6926	4			5			4						5							8	5	5
27	22X31A6927	5			5			4			4										8	5	5
28	22X31A6928	5			5			5			5										7	5	5
29	22X31A6929	5			5			5			5										10	5	5
30	22X31A6930	4			4			4			4										9	5	5
31	22X31A6931	5			5			5			5										10	5	5
32	22X31A6932	4			5																9	5	5
33	22X31A6933	1			4			5													10	5	5
34	22X31A6934	5			5			5						5							10	5	5
35	22X31A6935	5			5			5			5										10	5	5
36	22X31A6936	5			5			5			5										8	5	5
37	22X31A6937	5			4			4			4										7	5	5
38	22X31A6938	5			5			4			5										6	5	5
39	22X31A6939	5			4			4			5										10	5	5
40	22X31A6940	4			5			5			3										8	5	5
41	22X31A6941				5			4			1										9	5	5
42	22X31A6942	2			5			4													9	5	5
43	22X31A6943	2			5			3													10	5	5

>Target %	82%		100%		91%		87%		100%						100%	100%
-----------	-----	--	------	--	-----	--	-----	--	------	--	--	--	--	--	------	------

CO Attainment based on Exam Questions:

CO - 1	82%		100%													100%	100%
CO - 2					91%		91%						91%			100%	100%
CO - 3										91%						100%	100%
CO - 4																	
CO - 5																	
CO - 6																	

CO	Sub	obj	Asg	Overall	Level
CO-1	91%	100%	100%	97%	3.00
CO-2	91%	93%	100%	95%	3.00
CO-3	91%	96%	100%	96%	3.00
CO-4					

inment	
1	40%
2	50%
3	60%

Attainment (Internal 1 Examina

3.00

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities & Sciences



Course Outcome Attainment (Internal Examination-2)

Name of the faculty : M YADHAGIRI

Academic Year: 2022-2023

Branch & Section: IOT

Examination: II Internal

Course Name: CAEG

Year: I

Semester II

S.No	HT No.	Q1a	Q1b	Q1c	Q2a	Q2b	Q2c	Q3a	Q3b	Q3c	Q4a	Q4b	Q4c	Q5a	Q5b	Q5c	Q6a	Q6b	Q6c	ob	hee	A2	vi va	
Max. Marks ==>		5			5			5			5			5			5			10	5	5		
1	22X31A6901				5			5			4						3				7	5	5	
2	22X31A6902	3			3			3									4				5	5	5	
3	22X31A6903				4			4			4						1				6	5	5	
4	22X31A6904				2			3			4						2				8	4	5	
5	22X31A6905	5												4			5				8	4	5	
6	22X31A6906				5			5			5						5				8	5	5	
7	22X31A6907				2			3			3						1				5	4	5	
8	22X31A6908				3			3			3						3				9	5	5	
9	22X31A6909	##									2			4			5				9	5	5	
10	22X31A6910				4			4			3						4				8	5	5	
11	22X31A6911				5			5			5						5				8	5	5	
12	22X31A6912				4			4			2						2				6	4	5	
13	22X31A6913				4			4			4						4				9	4	5	
14	22X31A6914				2			1													9	4	5	
15	22X31A6915				4			4			2										8	4	5	
16	22X31A6916				5			4			3										7	3	5	
17	22X31A6917				2								2								6	4	5	
18	22X31A6918																				A	A	5	
19	22X31A6919				5			5			4										5	4	5	
20	22X31A6920				5			5						3							9	5	5	
21	22X31A6921										2			3			1				8	4	5	
22	22X31A6922				4			4			4			5			4				9	4	5	
23	22X31A6923							5			5			5			5				10	5	5	
24	22X31A6924				5						5						3				9	5	5	
25	22X31A6925				5			5			5										8	4	5	
26	22X31A6926				4			4					4				3				8	5	5	
27	22X31A6927				4			4			4						4				7	4	5	
28	22X31A6928							4			4			4			5				9	5	5	
29	22X31A6929	5			5			5									5				8	5	5	
30	22X31A6930	3			3			3			3										9	5	5	
31	22X31A6931				5			5			4						5				9	5	5	
32	22X31A6932										3			4			5				9	5	5	
33	22X31A6933										2			2							9	4	5	
34	22X31A6934				3			3			4						5				9	5	5	
35	22X31A6935				4			4			3			4							8	5	5	
36	22X31A6936				5			5			5						5				8	5	5	
37	22X31A6937				4						3			4							7	2	5	
38	22X31A6938	5									4			5			5				7	3	5	
39	22X31A6939				4						4			4							8	5	5	
40	22X31A6940				3			2			5										8	4	5	
41	22X31A6941							1			1						1				8	4	5	
42	22X31A6942				3						2			4			1				8	4	5	
43	22X31A6943				5			5			5						4				9	4	5	

% Students Scored >Target %	70%			86%			85%			79%			70%			77%			92%	97%	100%
-----------------------------	-----	--	--	-----	--	--	-----	--	--	-----	--	--	-----	--	--	-----	--	--	-----	-----	------

CO Attainment based on Exam Questions:

CO - 1																						
CO - 2																						
CO - 3	70%																		97%	100%	100%	
CO - 4							70%												97%	100%	100%	
CO - 5									70%		70%								97%	100%	100%	
CO - 6				70%											70%				97%	100%		

CO	Sub	obj	aas	ppt	Overall	Level
CO-1						
CO-2						
CO-3	70%	97%	100%	100%	92%	3
CO-4	70%	97%	100%	100%	92%	3.00
CO-5	70%	97%	100%	100%	92%	3.00
CO-6	70%	97%	100%		89%	3.00

Attainment Level	
1	40%
2	50%
3	60%

Attainment (Internal Examination) **3.00**



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities & Sciences

Course Outcome Attainment (University Examinations)

Name of the faculty : M YADHAGIRI

Academic Year: 2022-2023

Branch & Section: IOT

Year / Semester: I / II

Course Name: CAEG

S.No	Roll Number	Marks Secured
1	22X31A6901	30
2	22X31A6902	22
3	22X31A6903	40
4	22X31A6904	22
5	22X31A6905	22
6	22X31A6906	32
7	22X31A6907	22
8	22X31A6908	33
9	22X31A6909	33
10	22X31A6910	32
11	22X31A6911	47
12	22X31A6912	21
13	22X31A6913	30
14	22X31A6914	14
15	22X31A6915	28
16	22X31A6916	29
17	22X31A6917	21
18	22X31A6918	AB
19	22X31A6919	21
20	22X31A6920	27
21	22X31A6921	21
22	22X31A6922	23
23	22X31A6923	22
24	22X31A6924	21
25	22X31A6925	25
26	22X31A6926	22
27	22X31A6927	21
28	22X31A6928	23
29	22X31A6929	28
30	22X31A6930	21
31	22X31A6931	29
32	22X31A6932	21
33	22X31A6933	37
34	22X31A6934	41
35	22X31A6935	24

S.No	Roll Number	Marks Secured
36	22X31A6936	42
37	22X31A6937	36
38	22X31A6938	35
39	22X31A6939	28
40	22X31A6940	32
41	22X31A6941	1
42	22X31A6942	37
43	22X31A6943	27
44	22X31A6944	36
45	22X31A6945	21
46	22X31A6946	31
47	22X31A6947	23
48	22X31A6948	27
49	22X31A6949	31
50	22X31A6950	33
51	22X31A6951	28
52	22X31A6952	33
53	22X31A6953	44
54	22X31A6954	35
55	22X31A6955	12
56	22X31A6956	28
57	22X31A6957	31
58	22X31A6958	43
59	22X31A6959	34
60	22X31A6960	38
61	22X31A6961	44
62	22X31A6962	32
63	22X31A6963	36
64		
65		
66		
67		
68		
69		
70		

Max Marks	60
Class Average mark	29
Number of students performed above the target	31
Number of successful students	63
Percentage of students scored more than target	49%
Attainment level	2

Attainment Level	% students
1	40%
2	60%
3	>60%



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities & Sciences

Course Outcome Attainment

Name of the faculty: M. YADHAGIRI Academic Year: 2022-2023
Branch & Section: Course IOT Examination: I
Name: CAEG Internal Year: I
Semester: II

Course Outcomes	Ist Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
CO1	3.00		3.00	2.00	2.30
CO2	3.00		3.00	2.00	2.30
CO3	3.00	3.00	3.00	2.00	2.30
CO4		3.00	3.00	2.00	2.30
CO5		3.00	3.00	2.00	2.30
CO6		3.00	3.00	2.00	2.30
Internal & University Attainment:			3.00	2.00	
Weightage			30%	70%	
CO Attainment for the course (Internal, University)			0.90	1.40	
CO Attainment for the course (Direct Method)			2.30		

Overall course attainment level

2.30



SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Humanities & Sciences

Program Outcome Attainment (from Course)

Name of Faculty: M YADHAGIRI

Academic Year: 2022-2023

Branch & Section: IOT

Year: I

Course Name: CAEG

Semester: II

CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C123.1	3	-	-	-	-	-	-	1	-	1	-	-
C123.2	3	-	-	-	-	-	-	1	-	1	-	-
C123.3	2	-	-	-	-	-	-	1	-	1	-	-
C123.4	2	-	-	-	-	-	-	1	-	2	-	-
C123.5	3	-	-	-	-	-	-	1	-	2	-	-
C123.6	3	-	-	-	-	-	-	1	-	2	-	-
C123	2.6	-	-	-	-	-	-	1	-	1.5	-	-

CO	Course Outcome Attainment
CO1	2.30
CO2	2.30
CO3	2.30
CO4	2.30
CO5	2.30
CO6	2.30
Overall course attainment level	2.30

PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.6							1		1.5		

CO contribution to PO - 33%, 67%, 100% (Level 1/2/3)



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510

ATTENDANCE REGISTER

Link

<https://drive.google.com/file/d/1Ym180-c308Pmb3xINs6ex63qE52iF1SU/view?usp=sharing>

