



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

## ENGINEERING WORKSHOP LAB

**Course Code – ME102ES**

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

**Prepared by  
Mr B SRINU  
Assistant. Professor**

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 & Techn.  
Sheriguda(VIII), Ibrahimpatnam  
R.R. Dist. Telangana-501 510.



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## Index of Lab File

<b>Name of the Physical laboratory:</b>	ENGINEERING WORKSHOP LAB
<b>Course code</b>	ME102ES
<b>Room No</b>	S-003&S-006
<b>Name of the lab In charge</b>	B. SRINU
<b>Name of the faculty In charge</b>	W MARUTI

<b>S. No.</b>	<b>Name of the content</b>
1	Institute vision and mission
2	Programme outcomes
3	Course Syllabus with Structure
4	Course Outcomes (CO) and CO-PO mapping
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## INSTITUTE VISION & MISSION

### Vision:

To become a premier institute of academic excellence by providing the world class education that transforms individual is in to 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 stake holders.

  
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Department of H&S  
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PRINCIPAL  
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R.R. Dist. Telangana-501 510.

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Khalsa Ibrahimpatnam, Sheriguda(V),Ibrahimpatnam(M),RangaReddyDist.,Telangana-501510

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



## 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 & 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 & 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 & 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 & 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  
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Sheriguda(V) Ibrahimpatnam (M) R.R. Dist-501 510

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

B.Tech.in ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## COURSE STRUCTURE

### I YEAR SYLLABUS (BR22Regulations)

Applicable from AcademicYear: 2022-23Batch

#### 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				
		<b>TOTAL</b>	<b>14</b>	<b>3</b>	<b>12</b>	<b>20</b>

#### I Year II Semester

S. No.	Course Code	Course	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
10		<b>Total</b>	<b>11</b>	<b>3</b>	<b>12</b>	<b>20</b>





## ENGINEERING WORKSHOP LABORATORY

(CourseCode:ME102ES)

B.Tech. I Year I Sem.

L	T	PC
0	0	21

**Prerequisites:** Practical skill

### Course Objectives:

- To Study of different hand operated power tools, use and their demonstration.
- To gain good basic working knowledge required for the production of various engineering products.
- To provide hand on experience about use of different engineering materials, tools, equipment and processes those are common in the engineering field.
- To develop right attitude, team working, precision and safety at workplace.
- It explains the construction, function, use and application of different working tools, equipment and machines.
- To study commonly used carpentry joints.
- To have practical exposure to various welding and joining processes.
- Identify and use marking out tools, hand tools, measuring equipment and to work to prescribe to clearances.

**Course Outcomes** at the end of the course, the student will be able to

- Study and practice on machine tool and their operations.
- Practice on manufacturing of components using workshop trades including plumbing, fitting, carpentry, foundry, house wiring and welding.
- Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiseling.
- Apply basic electrical engineering knowledge for house wiring practice.

### 1. TRADES FOR EXERCISES:

At least two exercises from each trade:

- I. Carpentry-(T-Lap Joint, Dovetail Joint, Mortise & Tenon Joint)
- II. Fitting-(V-Fit, Dovetail Fit & Semi-circular fit)
- III. Tin-Smithy-(Square Tin, Rectangular Tray & Conical Funnel)
- IV. Foundry-(Preparation of Green Sand Mould using Single Piece and Split Pattern)
- V. Welding Practice-(Arc Welding & Gas Welding)
- VI. House-wiring-(Parallel & Series, Two-way Switch and Tube Light)
- VII. Black Smithy-(Round to Square, Fan Hook and S-Hook)

### 2. TRADES FOR DEMONSTRATION & EXPOSURE:

Plumbing, Machine Shop, Metal Cutting (Water Plasma), Power tool in construction and Wood Working

### TEXTBOOKS:

1. Workshop Practice/B. L Juneja /Cengage
2. Workshop Manual/K. Venugopal /Anuradha.

### REFERENCE BOOKS:

1. Workshop Manual -P. Kannaiah/K.L. Narayana/Scitech
2. Workshop Manual/Venkat Reddy/ BSP

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



## COURSE OUTCOMES

Course Name: Engineering Workshop Lab (C114)

At the End of the course, student will be able to

CONo	DESCRIPTION
C114.1	Study and practice on hand operated tools and their uses( <b>Understanding L2</b> )
C114.2	Ability to design and model the prototypes by using carpentry and tin smithy tools( <b>Creating L6</b> )
C114.3	Ability to join the metals by using welding and fitting trade( <b>CreatingL6</b> )
C114.4	Ability to produce casting using foundry( <b>ApplyingL3</b> )
C114.5	Ability to perform various basic house wiring functions( <b>AnalyingL4</b> )
C114.6	Ability to bend and design the model using black smithy trade( <b>Creating L6</b> )

## CO and Pos &PSOs Mapping

CourseO utcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C114.1	3	3	2	1	-	-	-	-	2	1	-	2	-	-
C114.2	3	3	1	2	1	-	-	-	2	1	-	2	-	-
C114.3	3	-	-	-	1	-	-	-	2	-	-	3	-	-
C114.4	2	3	1	-	1	1	-	-	3	-	-	2	-	-
C114.5	2	3	1	-	1	1	-	-	3	-	-	2	-	-
C114.6	2	3	1	-	1	1	-	-	3	-	-	2	-	-
<b>PO Avg</b>	<b>2.5</b>	<b>3</b>	<b>1.2</b>	<b>1.5</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>2.5</b>	<b>1</b>	<b>-</b>	<b>2.16</b>	<b>-</b>	<b>-</b>

3-High

2-Medium

1-Low

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## ENGINEERING WORKSHOP LAB

### LIST OF EXPERIMENTS AND THEIR CO, PO MAPPING

S.No	Name of The Experiment	CO	PO
1	T- Lap Joint	C114.1	PO1,2,3,4,9,10&12
2	Dovetail Joint	C114.2	PO1,2,3,4,5,9,10&12
3	V- Fit	C114.3	PO1,5,9&12
4	Semi-circular fit	C114.3	PO1,5,9&12
5	Square Tin	C114.2	PO1,2,3,4,5,9,10&12
6	Rectangular Tray	C114.2	PO1,2,3,4,5,9,10&12
7	Green Sand Molding Using Single Piece Pattern	C114.4	PO1,2,3,5,6,9&12
8	Green Sand Molding Using Split Piece Pattern	C114.4	PO1,2,3,5,6,9&12
9	Lap Joint	C114.3	PO1,5,9&12
10	Butt Joint	C114.3	PO1,5,9&12
11	Parallel & Series	C114.5	PO1,2,3,5,6,9&12
12	Tube light Connection	C114.5	PO1,2,3,5,6,9&12
13	S-Hook	C114.6	PO1,2,3,5,6,9&12
14	Round To Square	C114.6	PO1,2,3,5,6,9&12





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

**Class:** AI & DS

**Semester:** I **W.E.F:** 14-11-2022

**LH:-** D-210

	I 9:40- 10:30	II 10:30 - 11:20	III 11:20- 12:10		IV 12:10- 12:45	V 12:45- 1:35	VI 1:35- 2:25	VII 2:25- 3:15	VIII 3:15-4:00
MON	EWS/ELCS LAB			L U N C H	AP	PPS	M&C	PPS(T)/AP(T)	
TUE	ENG	ES	M&C		PPS	AP	ES	ENG(T)/M&C(T)	
WED	ECSE	PPS	ES		AP	M&C	ENG	AP(T)/PPS(T)	
THU	PPS LAB				ECSE	AP	ENG	M&C(T)/ENG(T)	
FRI	ENG	PPS	M&C		AP LAB			ECSE(T)	
SAT	PPS	AP	M&C		EWS/ELCS LAB			LIB	

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA101BS	Matrices and Calculus	V.SUJATHA	ME102ES	Engineering Workshop	B.SRINU NAIK/A.MALLESH
AP102BS	Applied Physics	R.YADAGIRI RAO	AP105BS	Applied Physics -Lab	P.SRINIVASA CHARY /M.MANISHA/ R.YADAGIRI RAO /M.JANAIAH
CS103ES	Programming for Problem Solving	G.KALYANI	CS107ES	Programming for Problem Solving Lab	G.KALYANI /U.NARESH
EN104HS	English for Skill Enhancement	G.VENKAT REDDY	EN107HS	English Language and Communication Skills Lab	G.VENKAT REDDY/S.SWAPNA
CS106ES	Elements of Computer Science & Engineering	J.PUJITHA	MC101ES	Environmental Science	O.SUBHASHINI

**Class In-Charge**

**Time Table Coordinator**



**Head of The Department**

**Dr. R. YADAGIRI RAO**

M.Sc., B.Ed., M.Tech(CSE), Ph.D

Head of the Department

Department of H&E

SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

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

1:24 PM



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**X3**

**BR22**

## **Lab External Question paper**

Year & Semester: I-I

Branch: AI&DS

Subject Name: ENGINEERING WORKSHOP LAB

Faculty Name: B SRINU

### **S. No.                      QUESTIONS**

1. To Make a T-lab joint from the given two reapers
2. To Make a Dovetail joint from the given two reapers
3. To Make a V –Fitting from the given two m ,s pieces
4. To Make a Semi –circular fit from the given two m ,s pieces
5. To Make a Square tin using the given sheet metal
6. To Make a Rectangular tray using the given sheet metal
7. Preparation of Green sand mould using single piece pattern
8. Preparation of Green sand mould using split piece pattern
9. To make a Double lap joint using the given mild steel pieces and by arc welding
10. Preparation of butt joint as shown in figure using shielded metal arc welding process
11. To Give Connection to two lights controlled by one switch in series
12. To Give Connection to one lights controlled by two-way switches
13. To Make a S-hook from a given round rod by following hand forging operation
14. To Make a Square rod from a given round rod by using hand forging operation



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## EWS Lab External Time Table Examination Branch

A.Y. : 2022-23

SEM-I

DATE	Day	Branch	Session	HT.No	Total No of Students
10-3-2023	FRIDAY	ECE & CE	FN	22X31A0401 TO 22X31A0464 22X31A0101 TO 22X31A0103	67
11-3-2023	SATURDAY	AI&ML-B	FN	22X31A6651 TO 22X31A6697	47
13-3-2023	MONDAY	AI&ML-A	FN	22X31A6601 TO 22X31A6650	50
13-3-2023	MONDAY	AI&DS	AN	22X31A7201 TO 22X31A7264	64
14-3-2023	TUESDAY	IOT	FN	22X31A6901 TO 22X31A6963	63

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Department of H&S  
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## EWS Lab External Time Table with examiners

A.Y. : 2022-23

SEM-I

DATE	Day	Branch	Session	HT.No	Total No of Students	Internal Examiner	External Examiner
10-3-2023	FRIDAY	ECE & CE	FN	22X31A0401 TO 22X31A0464 22X31A0101 TO 22X31A0103	67	M.V.B. KALYAN 7386666228	P.SATISH KUMAR GNITC
11-3-2023	SATURDAY	AI&ML-B	FN	22X31A6651 TO 22X31A6697	47	B.SRINU 9347139538	N.SURESH GNITC
13-3-2023	MONDAY	AI&ML-A	FN	22X31A6601 TO 22X31A6650	50	B.SRINU 9347139538	CH.CHANDRIKA GNITC
13-3-2023	MONDAY	AI&DS	AN	22X31A7201 TO 22X31A7264	64	B.SRINU 9347139538	CH.CHANDRIKA GNITC
14-3-2023	TUESDAY	IOT	FN	22X31A6901 TO 22X31A6963	63	W.MARUTHI 7019274842	T.SRINIVAS REDDY GNITC

  
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## LAB OCCUPANCY CHART

### ENGINEERING WORKSHOP LAB

	I 9:40-10:30	II 10:30 -11:20	III 11:20-12:10	12:10- 12.45	IV 12.45-1.35	V 1.35-2.25	VI 2.25-3.15	VII 3.15- 4.00
MON	I BTECH I SEM AIDS			L U N C H				
TUE	I BTECH I SEM AIML-A				I BTECH I SEM IOT			
WED	I BTECH I SEM ECE&CIVIL				I BTECH I SEM AIML-A			
THU	I BTECH I SEM IOT				I BTECH I SEM AIML-B			
FRI	I BTECH I SEM AIML-B				I BTECH I SEM ECE&CIVIL			
SAT					I BTECH I SEM AIDS			

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## **ENGINEERING WORKSHOP LAB**

### **Do's and Don'ts**

#### **Do's:**

- Conduct yourself in a responsible manner at all times in the laboratory. Don't talk aloud or crack jokes in lab.
- A lab coat should be worn during laboratory experiments. Dress properly during a laboratory activity. Long hair, dangling jewelry and loose or baggy clothing are a hazard in the laboratory.
- Observe good housekeeping practices. Replace the materials in proper place after work to keep the lab area tidy.
- Before starting Laboratory work follow all written and verbal instructions carefully. If you do not understand a direction or part of a procedure, **ASK YOUR CONCERN TEACHER BEFORE PROCEEDING WITH THE ACTIVITY.**
- Before use equipment must be read carefully Labels and instructions. Set up and use the equipment as directed by your teacher

#### **Don'ts:**

- Don't talk aloud or crack jokes in lab.
- Do not wander around the room, distract other students, startle other students or interfere with the laboratory experiments of others.
- Do not eat food, drink beverages or chew gum in the laboratory and do not use laboratory glassware as containers for food or beverages.





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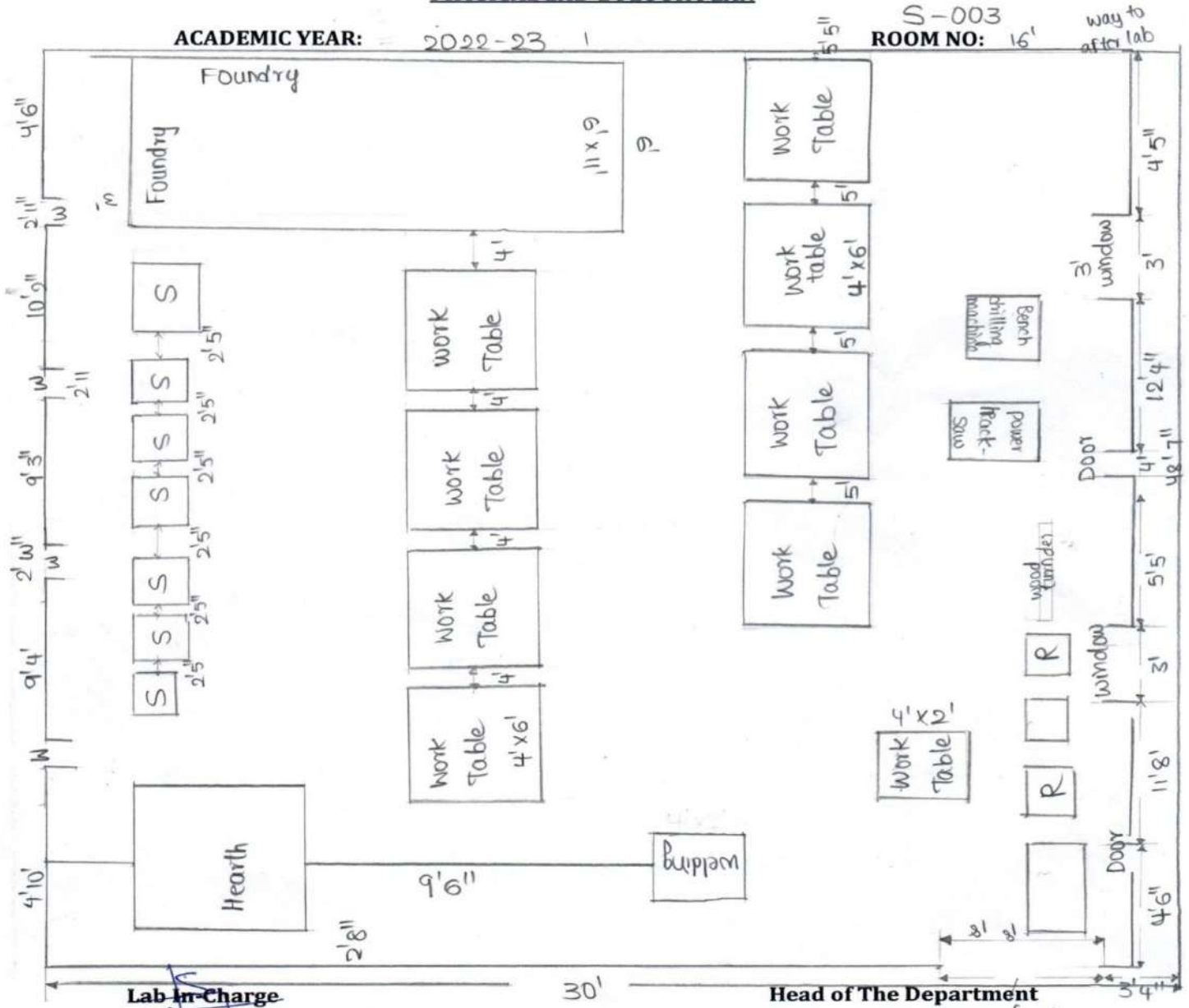
Website: <https://siiet.ac.in/>

## ENGINEERING WORKSHOP LAB

### PHYSICAL LAB-1 FLOOR PLAN

ACADEMIC YEAR: 2022-23 1

S-003  
ROOM NO: 16'



way to Mrs lab  
*[Handwritten Signature]*



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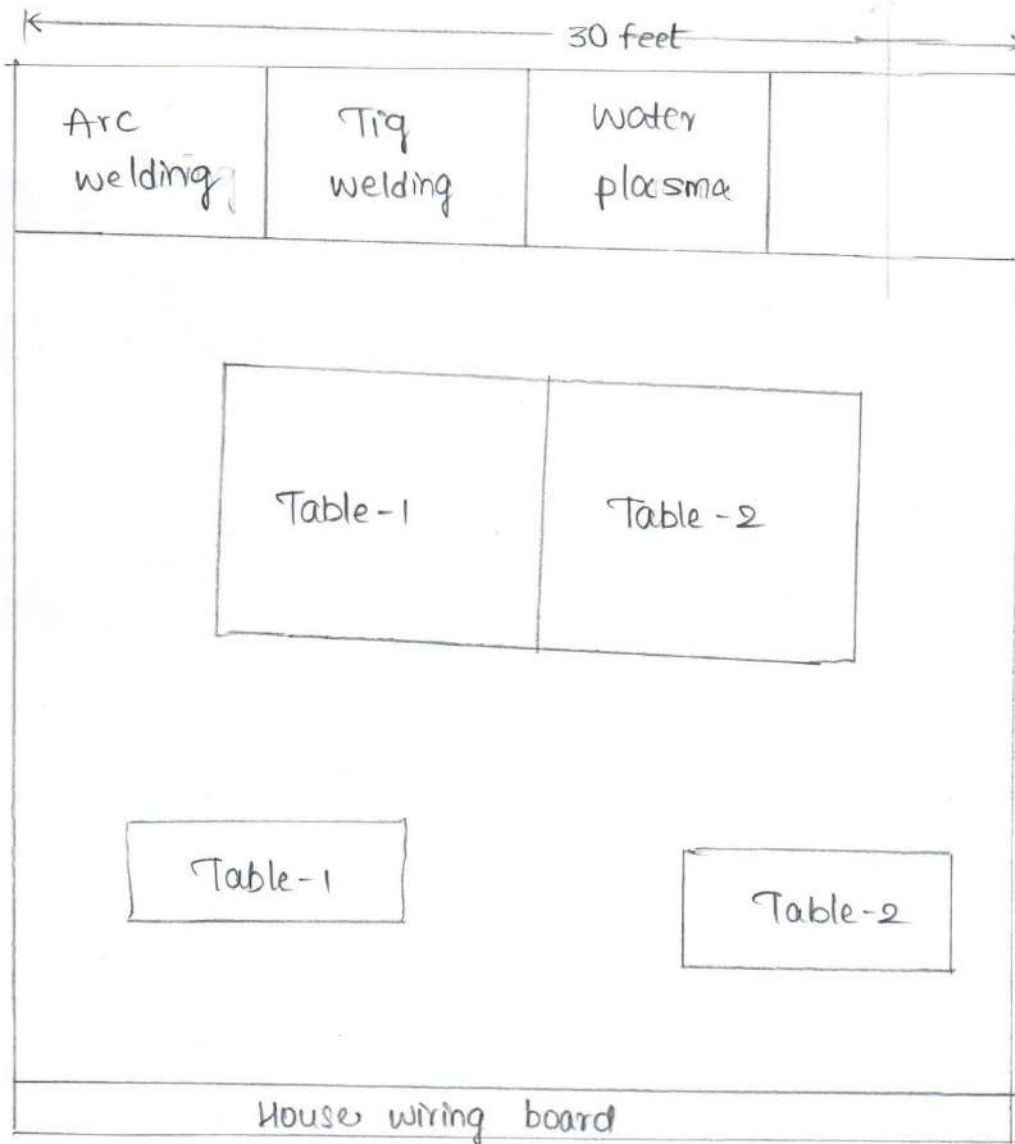
Website: <https://siiet.ac.in/>

## ENGINEERING WORKSHOP LAB

### PHYSICAL LAB-1 FLOOR PLAN

ACADEMIC YEAR: 2022 - 23

ROOM NO: S-002



Lab In-Charge

Head of The Department



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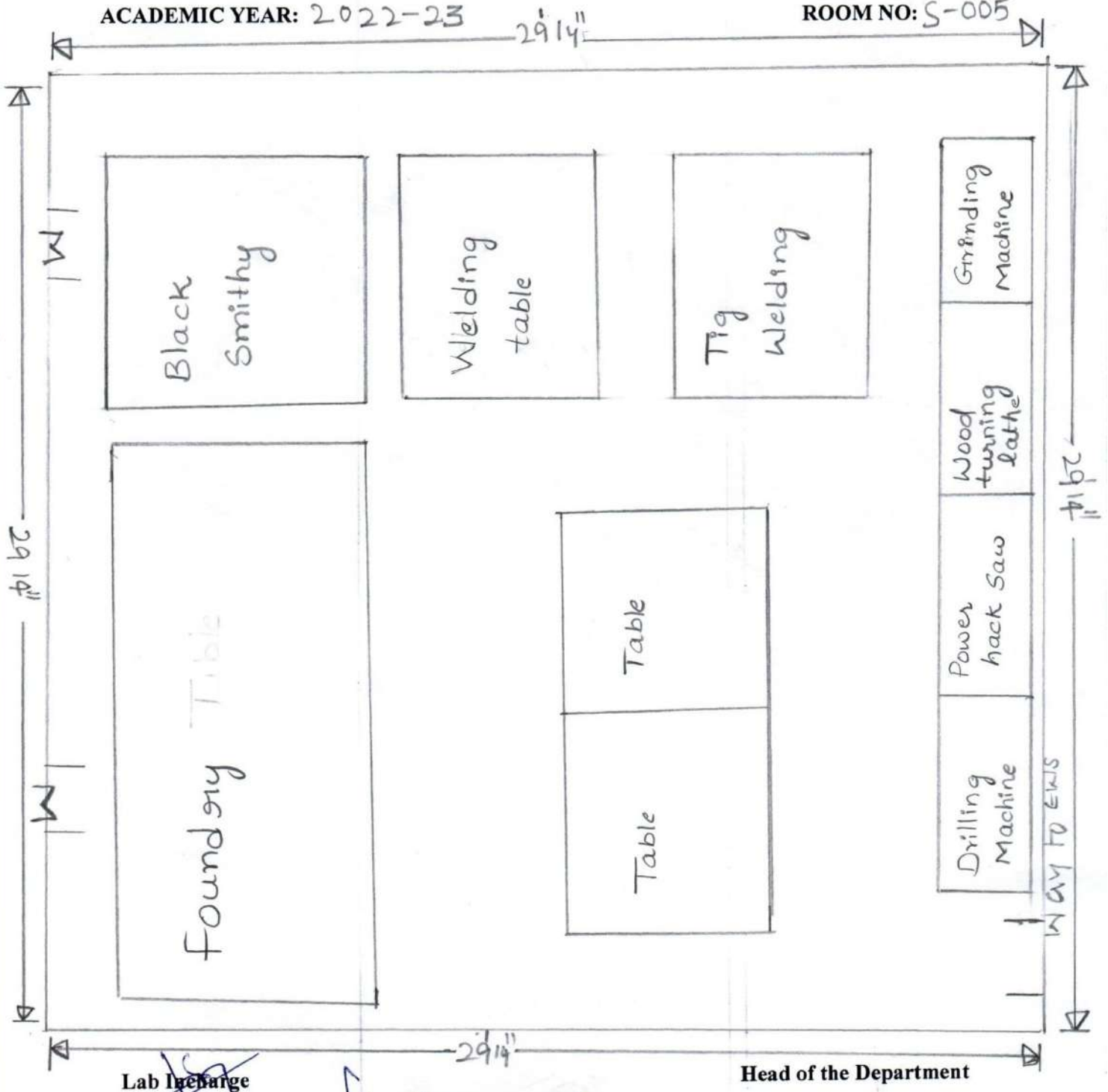
Website: <https://siiet.ac.in/>

## ENGINEERING WORKSHOP LAB

### PHYSICAL LAB-2 FLOOR PLAN

ACADEMIC YEAR: 2022-23

ROOM NO: S-005



Lab Incharge

Head of the Department



# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

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., Telangana - 501 510

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

## ENGINEERING WORKSHOP LAB

### PHYSICAL LAB-2 FLOOR PLAN

ACADEMIC YEAR: 2022-23

ROOM NO: S-006







# **SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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

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

## **Lab manual link**

<https://docs.google.com/document/d/1BsbaGdqye1AF3ENg22APuSd9jbM0kDmB/edit?usp=sharing&oid=104309933286797518629&rtpof=true&sd=true>

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences



## Course Outcome Attainment (Internal Examination-1)

Name of the faculty :	BANAVATH SRINU	Academic Year:	2022 - 23
Branch & Section:	AI&DS	Examination:	LAB INTERNAL-I
Lab Course Name:	ENGINEERING WORKSHOP	Year/semester	I/I

S.No	HT No.	R+O+A	V+V	E+E+R
<b>Max. Marks ==&gt;</b>		<b>10</b>	<b>10</b>	<b>10</b>
1	22X31A7201	9	7	10
2	22X31A7202	8	6	8
3	22X31A7203	10	7	9
4	22X31A7204	10	7	8
5	22X31A7205	8	6	8
6	22X31A7206	10	7	9
7	22X31A7207	10	7	10
8	22X31A7208	10	7	10
9	22X31A7209	10	7	10
10	22X31A7210	10	7	9
11	22X31A7211	10	7	9
12	22X31A7212	10	6	8
13	22X31A7213	10	7	10
14	22X31A7214	9	6	5
15	22X31A7215	10	7	8
16	22X31A7216	10	7	9
17	22X31A7217	10	7	8
18	22X31A7218	10	6	8
19	22X31A7219	10	6	8
20	22X31A7220	10	7	10
21	22X31A7221	10	7	8
22	22X31A7222	9	6	8
23	22X31A7223	10	7	10
24	22X31A7224	10	7	8
25	22X31A7225	10	6	8
26	22X31A7226	10	6	10
27	22X31A7227	10	7	10
28	22X31A7228	9	6	9
29	22X31A7229	10	6	8
30	22X31A7230	10	6	8
31	22X31A7231	10	7	9
32	22X31A7232	10	6	8
33	22X31A7233	10	7	10
34	22X31A7234	10	8	10
35	22X31A7235	10	8	10
36	22X31A7236	10	8	10
37	22X31A7237	10	5	10
38	22X31A7238	10	8	10
39	22X31A7239	10	8	10
40	22X31A7240	10	7	10
41	22X31A7241	10	7	10
42	22X31A7242	10	7	10
43	22X31A7243	10	7	10
44	22X31A7244	10	8	10
45	22X31A7245	10	5	10
46	22X31A7246	9	5	10
47	22X31A7247	10	5	10
48	22X31A7248	10	8	10
49	22X31A7249	10	8	10
50	22X31A7250	10	7	10



51	22X31A7251	10	8	10
52	22X31A7252	10	8	10
53	22X31A7253	10	7	10
54	22X31A7254	10	8	10
55	22X31A7255	10	7	10
56	22X31A7256	10	6	10
57	22X31A7257	10	6	10
58	22X31A7258	10	7	9
59	22X31A7259	10	6	10
60	22X31A7260	10	7	10
61	22X31A7261	10	8	10
62	22X31A7262	10	7	10
63	22X31A7263	10	8	10
64	22X31A7264	10	6	10

Target set by the faculty / HoD		6.00	6.00	6.00
Number of students performed above the target		64	60	63
Number of students attempted		64	64	64
Percentage of students scored more than target		100%	94%	98%

**CO Mapping with Exam Questions:**

CO - 1	y	y	Y
CO - 2	y	y	Y
CO - 3	y	y	Y
CO - 4	y	y	Y
CO - 5	y	y	Y
CO - 6	y	y	Y

**CO Attainment based on Exam Questions:**

CO - 1	100%	100%	98%
CO - 2	100%	100%	98%
CO - 3	100%	100%	98%
CO - 4	100%	100%	98%
CO - 5	100%	100%	98%
CO - 6	100%	100%	98%

CO	Intrnal practica	E+E+R	OverallI	Level	Attainment Level	
CO-1	100%	98%	99%	3	1	40%
CO-2	100%	98%	99%	3	2	50%
CO-3	100%	98%	99%	3	3	60%
CO-4	100%	98%	99%	3		
CO-5	100%	98%	99%	3		
CO-6	100%	98%	99%	3		

**Attainment (Internal 1 Examination) = 3**

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences



## Course Outcome Attainment (Internal Examination-2)

Name of the faculty :	BANAVATH SRINU	Academic Year:	2022 - 23
Branch & Section:	AI&DS	Examination:	LAB INTERNAL-II
Lab Course Name:	ENGINEERING WORKSHOP	Year/semester	I/I

S.No	HT No.	R+O+A	V+V	E+E+R	ppt
<b>Max. Marks ==&gt;</b>		<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1	22X31A7201	10	8	10	10
2	22X31A7202	10	5	10	10
3	22X31A7203	10	8	10	10
4	22X31A7204	10	8	10	10
5	22X31A7205	10	6	10	10
6	22X31A7206	10	8	10	10
7	22X31A7207	10	8	10	10
8	22X31A7208	10	8	10	10
9	22X31A7209	10	8	10	10
10	22X31A7210	10	7	10	10
11	22X31A7211	10	8	10	10
12	22X31A7212	10	7	10	10
13	22X31A7213	10	7	10	10
14	22X31A7214	10	6	10	10
15	22X31A7215	10	7	10	10
16	22X31A7216	10	7	10	10
17	22X31A7217	10	8	10	10
18	22X31A7218	10	9	10	10
19	22X31A7219	10	8	10	10
20	22X31A7220	10	8	10	10
21	22X31A7221	10	8	10	10
22	22X31A7222	10	8	10	10
23	22X31A7223	10	9	10	10
24	22X31A7224	10	8	10	10
25	22X31A7225	10	7	10	10
26	22X31A7226	10	7	10	10
27	22X31A7227	10	8	10	10
28	22X31A7228	10	7	10	10
29	22X31A7229	10	7	10	10
30	22X31A7230	10	6	10	10
31	22X31A7231	10	6	10	10
32	22X31A7232	10	6	10	10
33	22X31A7233	10	8	10	10
34	22X31A7234	10	5	10	10
35	22X31A7235	10	8	10	10
36	22X31A7236	10	9	10	10
37	22X31A7237	10	7	10	10
38	22X31A7238	10	9	10	10
39	22X31A7239	10	9	10	10
40	22X31A7240	10	8	10	10
41	22X31A7241	10	8	10	10
42	22X31A7242	10	8	10	10
43	22X31A7243	10	9	10	10
44	22X31A7244	10	7	10	10
45	22X31A7245	10	6	10	10
46	22X31A7246	10	6	10	10
47	22X31A7247	10	9	10	10
48	22X31A7248	10	9	10	10
49	22X31A7249	10	9	10	10
50	22X31A7250	10	8	10	10

51	22X31A7251	10	8	10	10
52	22X31A7252	10	9	10	10
53	22X31A7253	10	8	10	10
54	22X31A7254	10	8	10	10
55	22X31A7255	10	8	10	10
56	22X31A7256	10	7	10	10
57	22X31A7257	10	7	10	10
58	22X31A7258	10	7	10	10
59	22X31A7259	10	7	10	10
60	22X31A7260	10	8	10	10
61	22X31A7261	10	9	10	10
62	22X31A7262	10	8	10	10
63	22X31A7263	10	8	10	10
64	22X31A7264	10	7	10	10
Target set by the faculty / HoD		6.00	6.00	6.00	6.00
Number of students performed above the target		64	62	64	64
Number of students attempted		64	64	64	64
Percentage of students scored more than target		100%	97%	100%	100%

**CO Mapping with Exam Questions:**

CO - 1	y	y	Y	y
CO - 2	y	y	Y	y
CO - 3	y	y	Y	y
CO - 4	y	y	Y	y
CO - 5	y	y	Y	y
CO - 6	y	y	Y	y

**CO Attainment based on Exam Questions:**

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

CO	Intrnal practical	E+E+R	ppt	Overall	Level
CO-1	100%	85%	93%		
CO-2	98%	85%	92%	3	3
CO-3	98%	85%	92%	3	3
CO-4	98%	85%	100%	94%	3
CO-5	98%	85%	100%	94%	3
CO-6	98%	85%	100%	94%	3

Attainment Level	
1	40%
2	50%
3	60%

Attainment (Internal 2 Examination) =

**3**

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY



Department of Humanities and Sciences

## Course Outcome Attainment (University Examinations)

Name of the faculty :	BANAVATH SRINU	Academic Year:	2022 - 23
Branch & Section:	AI&DS	Year / Semester:	I/I
Lab Course Name:	ENGINEERING WORKSHOP		

S.No	Roll Number	Marks Secured		S.No	Roll Number	Marks Secured
1	22X31A7201	55		35	22X31A7235	55
2	22X31A7202	56		36	22X31A7236	55
3	22X31A7203	57		37	22X31A7237	55
4	22X31A7204	56		38	22X31A7238	56
5	22X31A7205	55		39	22X31A7239	57
6	22X31A7206	57		40	22X31A7240	A
7	22X31A7207	56		41	22X31A7241	55
8	22X31A7208	56		42	22X31A7242	56
9	22X31A7209	56		43	22X31A7243	56
10	22X31A7210	57		44	22X31A7244	57
11	22X31A7211	56		45	22X31A7245	57
12	22X31A7212	57		46	22X31A7246	57
13	22X31A7213	55		47	22X31A7247	55
14	22X31A7214	56		48	22X31A7248	56
15	22X31A7215	55		49	22X31A7249	57
16	22X31A7216	55		50	22X31A7250	56
17	22X31A7217	55		51	22X31A7251	56
18	22X31A7218	56		52	22X31A7252	57
19	22X31A7219	56		53	22X31A7253	57
20	22X31A7220	57		54	22X31A7254	57
21	22X31A7221	56		55	22X31A7255	56
22	22X31A7222	56		56	22X31A7256	57
23	22X31A7223	56		57	22X31A7257	57
24	22X31A7224	57		58	22X31A7258	55
25	22X31A7225	55		59	22X31A7259	57
26	22X31A7226	57		60	22X31A7260	57
27	22X31A7227	58		61	22X31A7261	56
28	22X31A7228	55		62	22X31A7262	56
29	22X31A7229	55		63	22X31A7263	57
30	22X31A7230	56		64	22X31A7264	56
31	22X31A7231	56				
32	22X31A7232	55				
33	22X31A7233	57				
34	22X31A7234	56				

Class Average mark	56		<b>Attainment Level</b>	<b>% students</b>
Number of students performed above the target	22		1	40%
Number of successful students	64		2	50%
Percentage of students scored more than target	34%		3	60%
<b>Attainment level</b>	<b>1</b>			

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY



Department of Humanities and Sciences

## Course Outcome Attainment

Name of the faculty: BANAVATH SRINU      Academic Year: 2022 - 23

Branch & Section: AI&DS      Year / Semester: I/I

Lab Course Name: ENGINEERING WORKSHOP

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
<b>CO1</b>	0.00	0.00	0.00	1.00	0.30
<b>CO2</b>	3.00	3.00	3.00	1.00	2.40
<b>CO3</b>	3.00	3.00	3.00	1.00	2.40
<b>CO4</b>	3.00	3.00	3.00	1.00	2.40
<b>CO5</b>	3.00	3.00	3.00	1.00	2.40
<b>CO6</b>	3.00	3.00	3.00	1.00	2.40
<b>Internal &amp; University Attainment:</b>			2.50	1.00	
<b>Weightage</b>			70%	30%	
<b>CO Attainment for the course (Internal, University)</b>			1.75	0.30	
<b>CO Attainment for the course (Direct Method)</b>			2.05		

**Overall course attainment level**

**2.05**



# SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Humanities and Sciences

## Program Outcome Attainment (from Course)

Name of Faculty:	BANAVATH SRINU	Academic Year:	2022 - 23
Branch & Section:	AI&DS	Year / Semester:	I/I
Course Name:	ENGINEERING WORKSHOP		

### CO-PO mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C114.1	3	3	2	1					2	1		2		
C114.2	3	3	1	2	1				2	1		2		
C114.3	3				1	1			2			3		
C114.4	2	3	1		1	1			3			2		
C114.5	2	3	1		1	1			3			2		
C114.6	2	3	1		1	1			3			2		
<b>Course</b>	<b>2.50</b>	<b>3.00</b>	<b>1.20</b>	<b>1.50</b>	<b>1.00</b>	<b>1.00</b>			<b>2.50</b>	<b>1.00</b>		<b>2.16</b>		

CO	Course Outcome Attainment
CO1	0.30
CO2	2.40
CO3	2.40
CO4	2.40
CO5	2.40
CO6	2.40
<b>Overall course attainment level</b>	<b>2.05</b>

### PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>CO Attainment</b>	<b>2.50</b>	<b>3.00</b>	<b>1.20</b>	<b>1.50</b>	<b>1.00</b>	<b>1.00</b>			<b>2.50</b>	<b>1.00</b>		<b>2.16</b>		

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



