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(V), Ibrahimpatnam (M), R.R. Dist-501 510

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

Index of Lab File

Name of the Physical laboratory:	ENGINEERING WORKSHOPLAB
Course code	ME102ES
Room No	S-003&S-006
Name of the lab In charge	B.SRINU
Name of the faculty In charge	W.MARUTHI

S.No.	Name of the content
1	Institute vision and mission
2	Programme outcomes
3	Course Syllabus with Structure
4	Course Outcomes(CO)and CO-PO mapping
5	List of experiments and their CO ,PO mapping
6	Timetable
7	Model Practical End examination questions
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14	CO-PO Attainments

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:**Tobe 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.

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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 modeling to complex engineering activities with anunderstanding 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 leaderin a team, to manage projects and in multidisciplinary env ronments.

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.

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SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

B.Tech. in COMPUTER SCIENCE AND ENGINEERING (AI & ML)

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**

ENGINEERING WORKSHOP
(Course Code: ME102ES)

B.Tech. I Year I Sem.

L	T	P	C
0	1	3	2.5

Pre-requisites: Practical skill

Course Objectives:

- To Study of different hand operated power tools, uses and their demonstration.
- To gain a good basic working knowledge required for the production of various engineering products.
- To provide hands on experience about use of different engineering materials, tools, equipments and processes those are common in the engineering field.
- To develop a right attitude, team working, precision and safety at work place.
- 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 prescribed tolerances.

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

- Study and practice on machine tools and their operations.
- Practice on manufacturing of components using workshop trades including pluming, 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 tools in construction and Wood Working

TEXT BOOKS:

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

REFERENCE BOOKS:

1. Work shop 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

CO'S	DESCRIPTION
C114.1	Study and practice on hand operated tool sand their uses**(UnderstandingL2)**
C114.2	Ability to design and model the prototypes by using carpentry and tin smithy tools**(Creating L6)**
C114.3	Ability to join the metals by using welding and fitting trade(CreatingL6)
C114.4	Ability to produce casting using foundry(ApplyingL3)
C114.5	Ability to perform various basic house wiring functions(AnalyingL4)
C114.6	Ability to bend and design the model using black smithy trade(**Creating L6)**

CO and Pos &PSOs Mapping

Course Outcomes	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	-	-
PO Avg	**2.5**	**3**	**1.2**	**1.5**	**1**	**1**	**-**	**-**	**2.5**	**1**	**-**	**2.16**	**-**	**-**

3-High 2-Medium 1-Low

ENGINEERING WORKSHOP LAB

LIST OF EXPERIMENTS AND THEIR CO,PO MAPPING

S. No	Name of the Experiment	CO	PO
1	T- Lap Joint	C123.1	PO1,2,3,4,9,10&12
2	Dovetail Joint	C123.2	PO1,2,3,4,5,9,10&12
3	V-Fit	C123.3	PO1,5,9&12
4	Semi-circular fit	C123.3	PO1,5,9&12
5	Square Tin	C123.2	PO1,2,3,4,5,9,10&12
6	Rectangular Tray	C123.2	PO1,2,3,4,5,9,10&12
7	Green Sand Molding Using Single Piece Pattern	C123.4	PO1,2,3,5,6,9&12
8	Green Sand Molding Using Split Piece Pattern	C123.4	PO1,2,3,5,6,9&12
9	Lap Joint	C123.3	PO1,5,9&12
10	Butt Joint	C123.3	PO1,5,9&12
11	Parallel &Series	C123.5	PO1,2,3,5,6,9&12
12	Tube light Connection	C123.5	PO1,2,3,5,6,9&12
13	S-Hook	C123.6	PO1,2,3,5,6,9&12
14	Round To Square	C123.6	PO1,2,3,5,6,9&12

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Class:AI &ML-A Semester: I W.E.F-14-11-2022 LH:-D-105

	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	PPS	AP	ECSE	LUNCH	ENG	M&C	ES	AP(T)/PPS(T)
TUE	EWS/ELCS				PPS	M&C	ES	M&C(T)/ENG(T)
WED	AP	ENG	M&C		EWS/ELCS			ECSE(T)
THU	ENG	M&C	PPS		ES	AP	PPS	LIB
FRI	ECE	M&C	AP		PPS LAB			PPS(T)/AP(T)
SAT	AP LAB				AP	PPS	ENG	ENG(T)/M&C(T)

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA101BS	Matrices and Calculus	V.SRINIVAS	ME102ES	Engineering Workshop	B.SRINU NAIK/W.MARUTHI
AP102BS	Applied Physics	Dr.B.NAGALAKSHMI	AP105BS	Applied Physics -Lab	Dr.B.NAGALAKSHMI /M.MANISHA/M.JANAIAH/B.SANTHI
CS103ES	Programming for Problem Solving	M.TEJASWI	CS107ES	Programming for Problem Solving Lab	M.TEJASWI/KALESHA SHAIK
EN104HS	English for Skill Enhancement	K.LAKSHMI SHILPA	EN107HS	English Language and Communication Skills Lab	K.LAKSHMI SHILPA/E.PRARTHANA
CS106ES	Elements of Computer Science & Engineering	N.RAJU	MC101ES	Environmental Science	G.VIJAY

Class In-Charge Time Table Coordinator Head of The Department

Sri Indu Institute of Engg. & Technology SHERIGUDA * 501 510 *

Dr. R. YADAGIRI RAO
M.Sc.,B.Ed.,M.Tech(CSE).,Ph.D
Head of the Department
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,Hyderabad)Sheriguda (V), Ibrahimpatnam (M), R.R Dist.,
Telangana – 501 510 **Lab External Question paper**

X3

BR22

Year & Semester: I-I Branch: AI&ML-A

Subject Name : ENGINEERING WORKSHOP LAB Faculty Name: B SRINU

EXTERNALQUESTIONS

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 MS pieces
4. To Make a Semi–circular fit from the given two MS 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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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

ENGINEERINGWORKSHOPLAB

	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	VII3.15-4.00
MON	I BTECH I SEM AIDS			LUNCH				
TUE	I BTECH I SEM AIML-A				I BTECH ISEM 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 loud 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.
- Observegoodhousekeepingpractices.Replacethematerialsinproperplaceafterworktokeepthe 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 loud 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 glass ware as containers for food or beverages.

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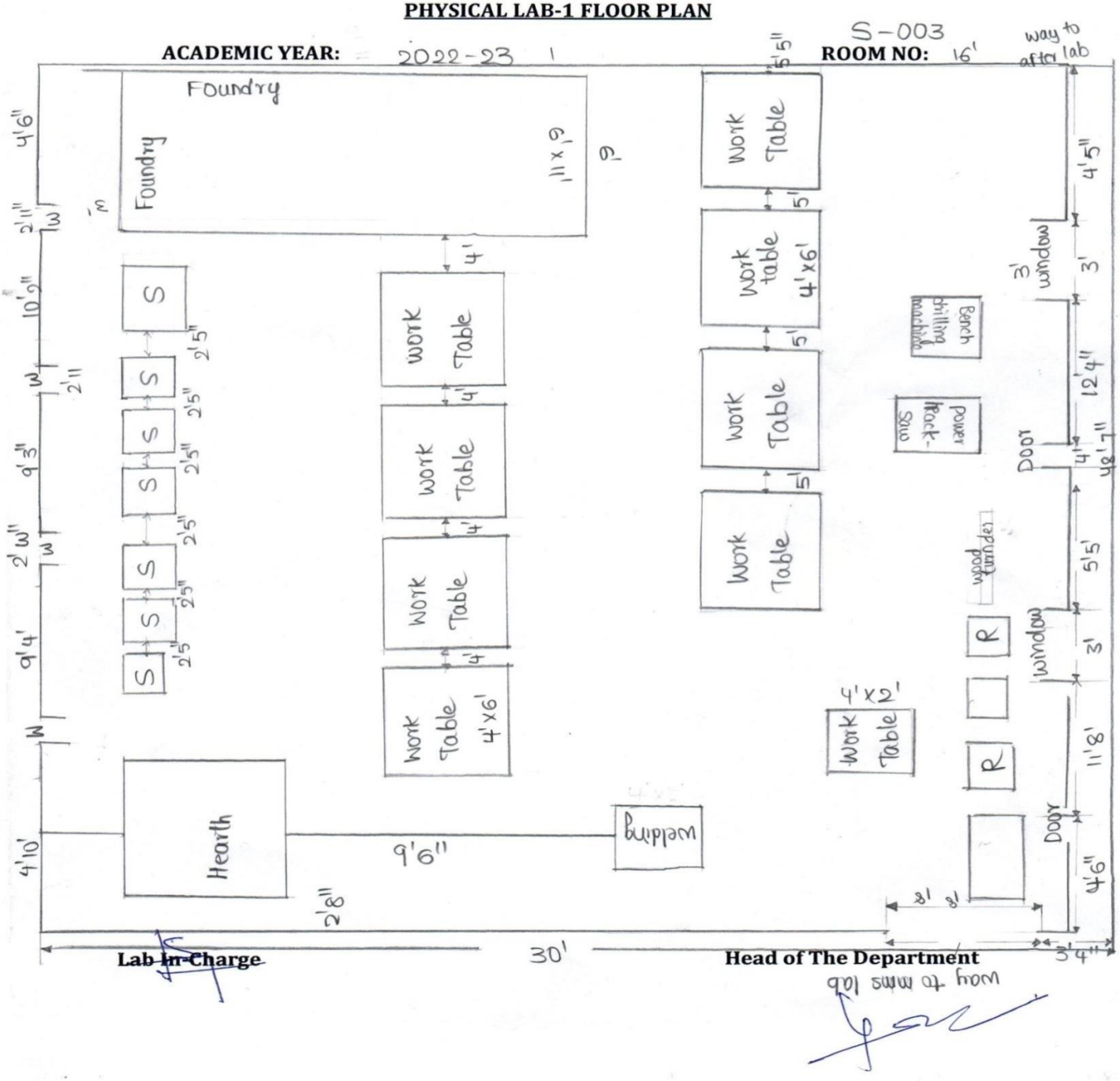
ENGINEERING WORKSHOP LAB

PHYSICAL LAB-1 FLOOR PLAN

ACADEMIC YEAR: 2022-23 I **ROOM NO:** S-003



Lab In-Charge **Head of The Department**

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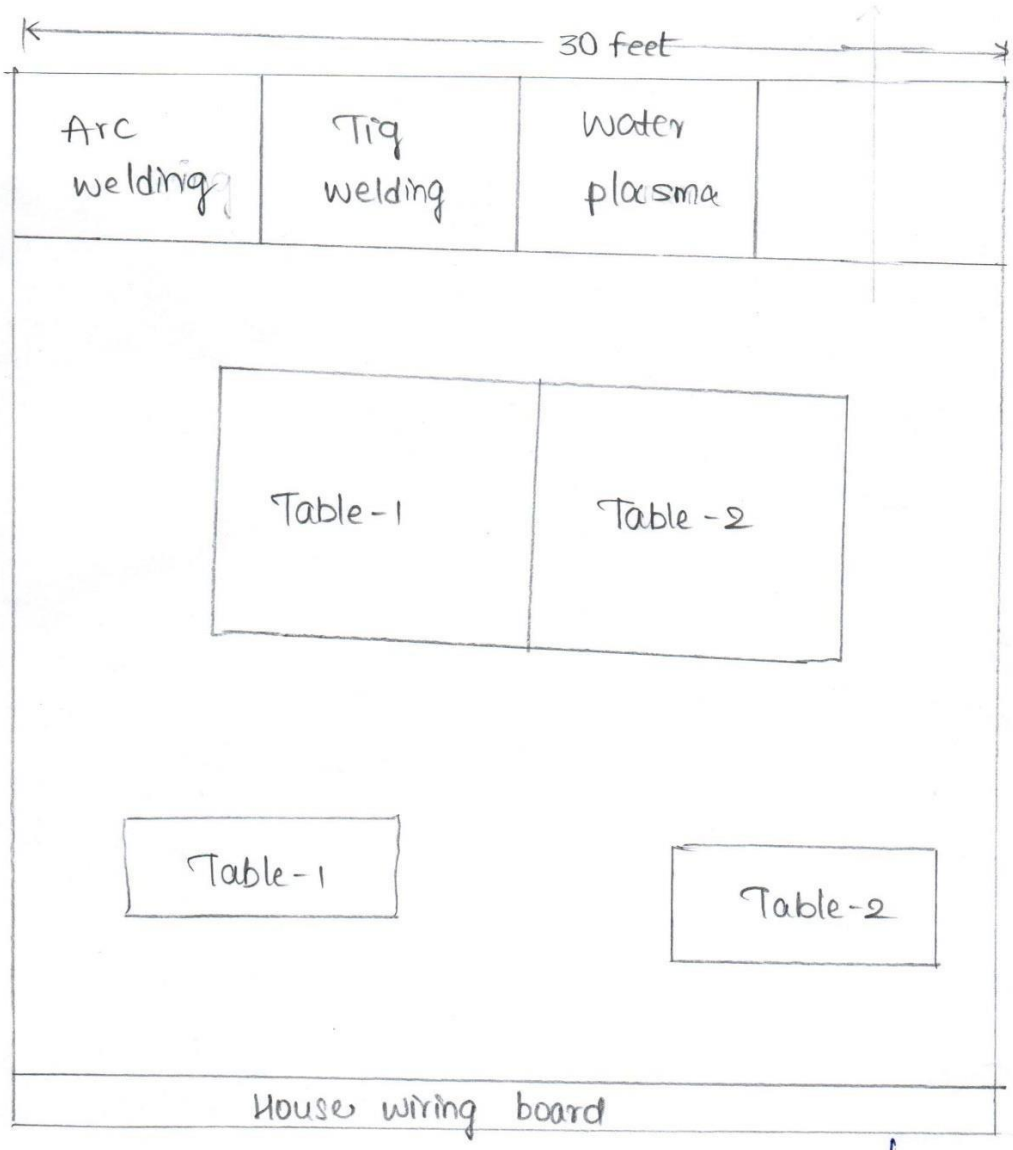
ENGINEERING WORKSHOP LAB

PHYSICAL LAB-1 FLOOR PLAN

ACADEMIC YEAR: 2022 -23 **ROOM NO:** S-002



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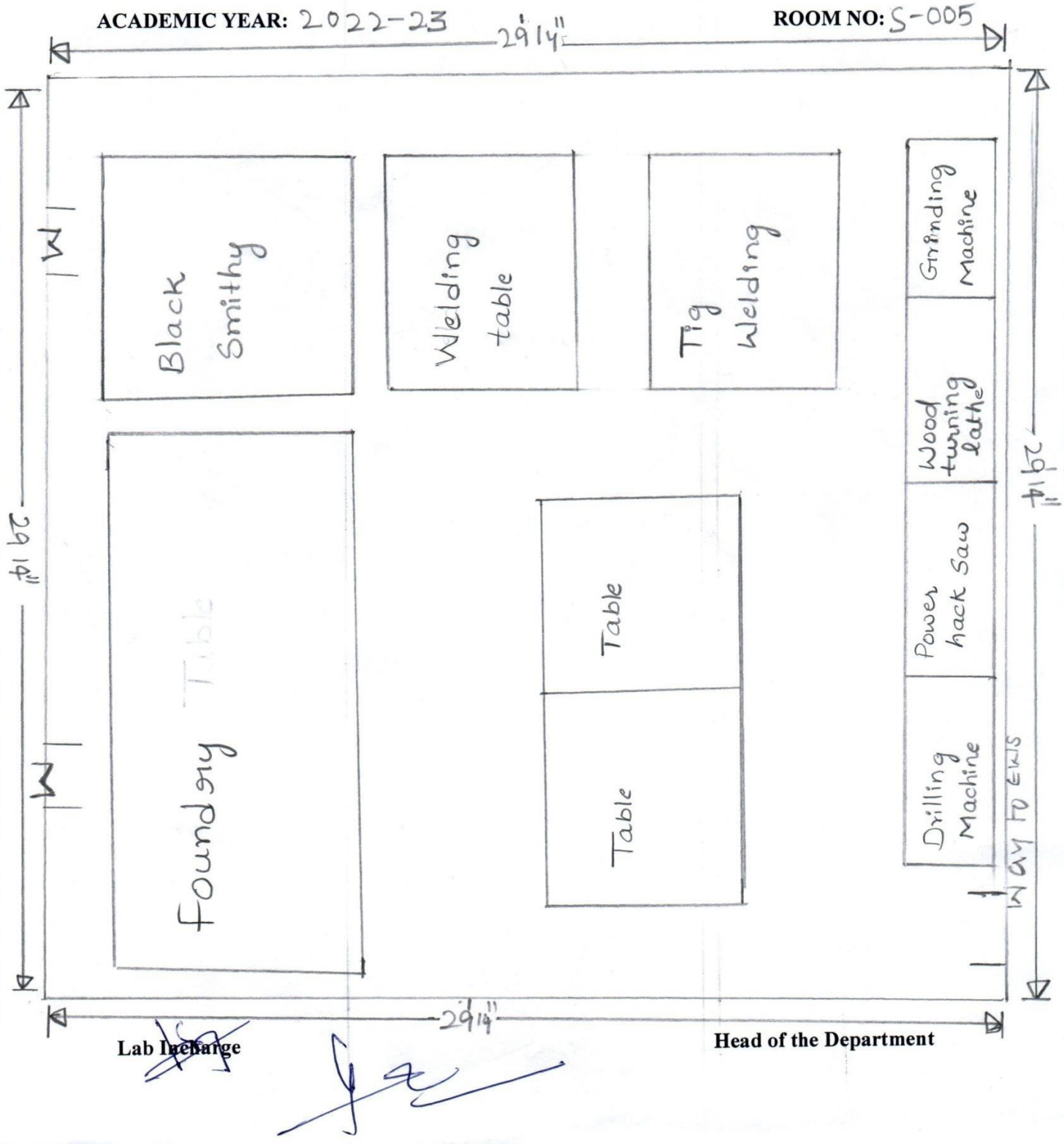
ENGINEERING WORKSHOP LAB

PHYSICAL LAB-2 FLOOR PLAN

ACADEMIC YEAR: 2022-23 **ROOM NO:** S-005



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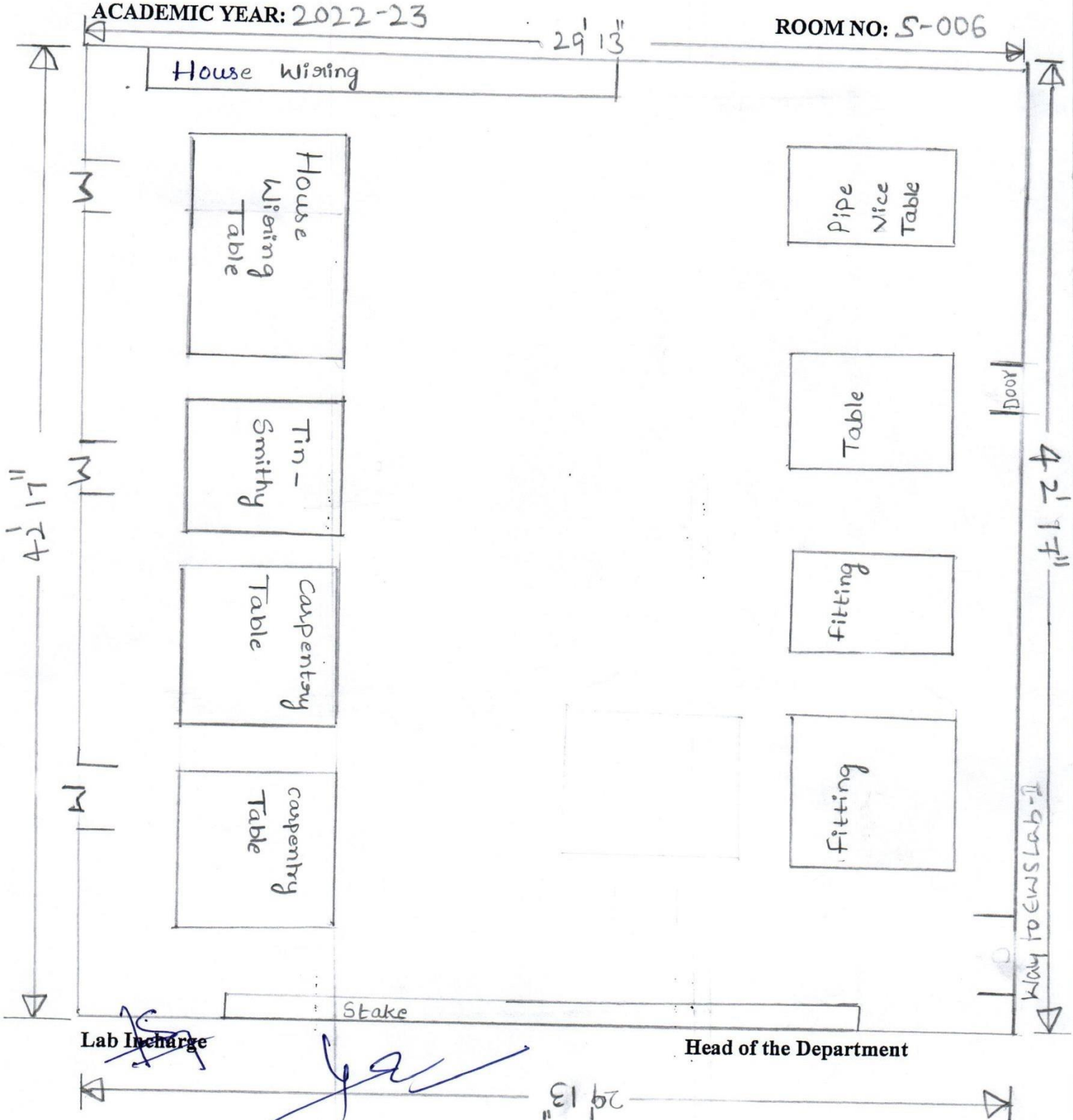
ENGINEERING WORKSHOP LAB

PHYSICAL LAB-2 FLOOR PLAN

ACADEMIC YEAR: 2022-23 ROOM NO: S-006



Lab Incharge

Head of the Department

Lab manual link

https://drive.google.com/file/d/107embEf8Vec3z4dxVo1rCpyS1JZSvQG0/view?usp=sharing

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment(InternalExamination-1)

Name of the faculty:	BANAVATHSRINU	Academic Year:	2022-23
Branch &Section:	AIML-A	Examination:	LABINTERNAL-I
Lab Course Name:	ENGINEERING WORKSHOP	Year/semester	I/I

S .No	H T No.	R+O+A	V+V	E+E+R
Max. Marks==>		10	10	10
1	22X31A6601	10	6	10
2	22X31A6602	10	8	10
3	22X31A6603	10	7	10
4	22X31A6604	10	6	10
5	22X31A6605	10	6	10
6	22X31A6606	10	6	10
7	22X31A6607	10	7	10
8	22X31A6608	10	8	10
9	22X31A6609	10	8	10
10	22X31A6610	10	7	10
11	22X31A6611	10	8	10
12	22X31A6612	10	6	10
13	22X31A6613	10	7	10
14	22X31A6614	10	8	10
15	22X31A6615	10	6	10
16	22X31A6616	10	6	10
17	22X31A6617	10	6	10
18	22X31A6618	10	7	10
19	22X31A6619	10	6	10
20	22X31A6620	10	7	10
21	22X31A6621	10	6	10
22	22X31A6622	10	6	10
23	22X31A6623	10	7	10
24	22X31A6624	10	6	10
25	22X31A6625	10	7	10
26	22X31A6626	10	7	10
27	22X31A6627	10	7	10
28	22X31A6628	10	7	10
29	22X31A6629	10	6	10
30	22X31A6630	10	6	10
31	22X31A6631	10	7	10
32	22X31A6632	10	6	10
33	22X31A6633	10	7	10
34	22X31A6634	10	6	10
35	22X31A6635	10	6	10
36	22X31A6636	10	6	10
37	22X31A6637	10	7	10
38	22X31A6638	10	6	10
39	22X31A6639	10	6	10
40	22X31A6640	A	A	A
41	22X31A6641	10	7	10
42	22X31A6642	10	6	10
43	22X31A6643	10	7	10
44	22X31A6644	10	6	10
45	22X31A6645	10	8	10
46	22X31A6646	10	8	10
47	22X31A6647	10	8	10
48	22X31A6648	10	8	10
49	22X31A6649	10	7	10
50	22X31A6650	10	7	10

Target set by the faculty / HoD	6.00	6.00	6.00
Number of students performed above the target	49	49	49
Number of students attempted	50	50	50
Percentage of students scored more than target	98%	98%	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	Intrnalpractica	E+E+R	Overall	Level
CO-1	100%	98%	99%	3
CO-2	100%	98%	99%	3
CO-3	100%	98%	99%	3
CO-4	100%	98%	99%	3
CO-5	100%	98%	99%	3
CO-6	100%	98%	99%	3

Attainment(Internal1Examination)= **3**

Attainment Level	
1	40%
2	50%
3	60%

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment(InternalExamination-2)

Name of the faculty:	BANAVATHSRINU	Academic Year:	2022-23
Branch &Section:	AIML-A	Examination:	LAB INTERNAL-II
Lab Course Name:	ENGINEERINGWORKSHOP	Year/semester	I/I

S. No	HT No.	R+O+A	V+V	E+E+R	ppt
Max. Marks==>		**10**	**10**	**10**	**10**
1	22X31A6601	10	9	10	10
2	22X31A6602	10	10	10	10
3	22X31A6603	10	8	10	10
4	22X31A6604	10	8	10	10
5	22X31A6605	10	8	10	10
6	22X31A6606	10	8	10	10
7	22X31A6607	10	7	10	10
8	22X31A6608	10	9	10	10
9	22X31A6609	10	8	10	10
10	22X31A6610	9	7	10	10
11	22X31A6611	10	8	10	10
12	22X31A6612	10	7	10	10
13	22X31A6613	10	8	10	10
14	22X31A6614	10	9	10	10
15	22X31A6615	10	8	10	10
16	22X31A6616	10	8	10	10
17	22X31A6617	10	8	10	10
18	22X31A6618	10	7	10	10
19	22X31A6619	10	7	10	10
20	22X31A6620	9	8	10	10
21	22X31A6621	10	7	10	10
22	22X31A6622	10	7	10	10
23	22X31A6623	10	8	10	10
24	22X31A6624	10	7	10	10
25	22X31A6625	10	8	10	10
26	22X31A6626	10	8	10	10
27	22X31A6627	10	8	10	10
28	22X31A6628	10	8	10	10
29	22X31A6629	10	7	10	10
30	22X31A6630	10	7	10	10
31	22X31A6631	9	8	10	10
32	22X31A6632	10	7	10	10
33	22X31A6633	10	8	10	10
34	22X31A6634	10	8	10	10
35	22X31A6635	10	7	10	10
36	22X31A6636	10	8	10	10
37	22X31A6637	10	8	10	10
38	22X31A6638	10	8	10	10
39	22X31A6639	10	8	10	10
40	22X31A6640	10	6	10	10
41	22X31A6641	10	8	10	10
42	22X31A6642	10	7	10	10
43	22X31A6643	10	8	10	10
44	22X31A6644	10	7	10	10
45	22X31A6645	10	8	10	10
46	22X31A6646	10	8	10	10
47	22X31A6647	10	8	10	10
48	22X31A6648	10	8	10	10
49	22X31A6649	10	8	10	10
50	22X31A6650	10	8	10	10

Target set by the faculty /HoD	6.00	6.00	6.00	6.00
Number of students performed above the target	50	50	50	50
Number of students attempted	50	50	50	50
Percentage of students scored more than target	100%	100%	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%	100%	100%	
CO-3	100%	100%	100%	
CO-4	100%	100%	100%	100%
CO-5	100%	100%	100%	100%
CO-6	100%	100%	100%	100%

CO	Intrnalpractica	E+E+R	ppt	Overall	Level
CO-1	100%	85%	93%		
CO-2	100%	85%	93%	3	3
CO-3	100%	85%	93%	3	3
CO-4	100%	85%	100%	95%	3
CO-5	100%	85%	100%	95%	3
CO-6	100%	85%	100%	95%	3
Attainment(Internal2Examination)=					**3**

Attainment Level	
1	40%
2	50%
3	60%

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment(University Examinations)

Name of the faculty:	BANAVATHSRINU	Academic Year:	2022-23
Branch &Section:	AIML-A	Year/Semester:	I/I
Lab Course Name:	ENGINEERINGWORKSHOP		

S. No	Roll Number	Marks Secured	S .No	Roll Number	Marks Secured
1	22X31A6601	55	35	22X31A6635	55
2	22X31A6602	59	36	22X31A6636	55
3	22X31A6603	56	37	22X31A6637	55
4	22X31A6604	57	38	22X31A6638	56
5	22X31A6605	53	39	22X31A6639	56
6	22X31A6606	55	40	22X31A6640	57
7	22X31A6607	55	41	22X31A6641	55
8	22X31A6608	58	42	22X31A6642	56
9	22X31A6609	57	43	22X31A6643	55
10	22X31A6610	55	44	22X31A6644	55
11	22X31A6611	54	45	22X31A6645	56
12	22X31A6612	55	46	22X31A6646	56
13	22X31A6613	55	47	22X31A6647	55
14	22X31A6614	57	48	22X31A6648	55
15	22X31A6615	56	49	22X31A6649	56
16	22X31A6616	56	50	22X31A6650	56
17	22X31A6617	55			
18	22X31A6618	56			
19	22X31A6619	55			
20	22X31A6620	55			
21	22X31A6621	56			
22	22X31A6622	55			
23	22X31A6623	55			
24	22X31A6624	56			
25	22X31A6625	57			
26	22X31A6626	55			
27	22X31A6627	57			
28	22X31A6628	57			
29	22X31A6629	56			
30	22X31A6630	56			
31	22X31A6631	57			
32	22X31A6632	57			
33	22X31A6633	57			
34	22X31A6634	57			

		Attainment Level	%students
Class Average mark	56		
Number of students performed above the target	28	1	40%
Number of successful students	50	2	50%
Percentage of students scored more than target	56%	3	60%
Attainmentlevel	**3**		

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment

Name of the faculty	BANAVATHSRINU	Academic Year:	2022-23
Branch &Section:	AIML-A	Year/Semester:	I/I
Lab Course Name:	ENGINEERINGWORKSHOP		

Course Outcomes	1st Internal Exam	2ndInternal Exam	Internal Exam	University Exam	Attainment Level
CO1	0.00	0.00	0.00	3.00	0.90
CO2	3.00	3.00	3.00	3.00	3.00
CO3	3.00	3.00	3.00	3.00	3.00
CO4	3.00	3.00	3.00	3.00	3.00
CO5	3.00	3.00	3.00	3.00	3.00
CO6	3.00	3.00	3.00	3.00	3.00
Internal &University Attainment:			2.50	3.00	
Weight age			70%	30%	
CO Attainment or the course(Internal ,University)			1.75	0.90	
CO Attainment for the course(Direct Method)			2.65		

Overallcourseattainmentlevel	**2.65**

SRI INDU INSTITUTE OF ENGINEERING &TECHNOLOGY

Department of Humanities and Sciences

Program Outcome Attainment(from Course)

Name of Faculty:	BANAVATHSRINU	Academic Year:	2022-23
Branch &Section:	AIML-A	Year/Semester:	I/I
Course Name:	ENGINEERING WORKSHOP		

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1					2	1		2		
CO2	3	3	1	2	1				2	1		2		
CO3	3				1				2			3		
CO4	2	3	1		1	1			3			2		
CO5	2	3	1		1	1			3			2		
CO6	2	3	1		1	1			3			2		
Course	**2.50**	**3.00**	**1.20**	**1.50**	**1.00**	**1.00**			**2.50**	**1.00**		**2.16**		

CO	**Course Outcome Attainment**
CO1	0.90
CO2	3.00
CO3	3.00
CO4	3.00
CO5	3.00
CO6	3.00
Overall course attainment level	**2.65**

PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	**2.50**	**3.00**	**1.20**	**1.50**	**1.00**	**1.00**			**2.50**	**1.00**		**2.16**

COcontributiontoPO-33%,67%,100%(Level1/2/3)