COURSE FILE

ON

ENGINEERING WORKSHOP LAB

Course Code-ME202ES

I B. Tech Semester-II
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 WORKSHOP LAB
Course code	ME202ES
Room No	S-003&S-006
Name of the lab In charge	B.SRINU
Name of the faculty In charge	W MARUTI

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 experiment sand their CO ,PO mapping
6	Time table
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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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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 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.

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SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

B.Tech.in COMPUTER SCIENCE AND ENGINEERING

COURSE STRUCTURE

I YEAR SYLLABUS (BR22 Regulations)

Applicable from Academic Year: 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.	CH103BS	Engineering Chemistry	3	1	0	4
3.	CS103ES	Programming for Problem Solving	3	0	0	3
4.	EE101ES	Basic Electrical Engineering	2	0	0	2
5.	ME101ES	Computer Aided Engineering Graphics	1	0	4	3
6.	CS106ES	Elements of Computer Science Engineering	0	0	2	1
7.	CH106BS	Engineering Chemistry Laboratory	0	0	2	1
8.	CS107ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	EE102ES	Basic Electrical Engineering Laboratory	0	0	2	1
		Induction Programme				
		TOTAL	**12**	**2**	**12**	**20**

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.	AP202BS	Applied Physics	3	1	0	4
3.	ME202ES	Engineering Workshop	0	1	3	2.5
4.	EN204HS	English for Skill Enhancement	2	0	0	2
5.	EC201ES	Electronic Devices and Circuits	2	0	0	2
6.	AP205BS	Applied Physics Laboratory	0	0	3	1.5
7.	CS201ES	Python Programming Laboratory	0	1	2	2
8.	EN207ES	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS203ES	IT Workshop	0	0	2	1
10	*MC201ES	Environmental Science	3	0	0	0
		Total	13	4	12	20

ENGINEERING WORKSHOP LABORATORY

(Course Code: ME202ES)

B.Tech. I Year II 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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COURSE OUTCOMES

Course Name: Engineering Workshop Lab (C113)

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

CO'S	DESCRIPTION
C123.1	Study and practice on hand operated tool sand their uses**(UnderstandingL2)**
C123.2	Ability to design and model the prototypes by using carpentry and tin smithy tools**(Creating L6)**
C123.3	Ability to join the metals by using welding and fitting trade(CreatingL6)
C123.4	Ability to produce casting using foundry(ApplyingL3)
C123.5	Ability to perform various basic house wiring functions(AnalyingL4)
C123.6	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
C123.1	3	3	2	1	-	-	-	-	2	1	-	2	-	-
C123.2	3	3	1	2	1	-	-	-	2	1	-	2	-	-
C123.3	3	-	-	-	1	-	-	-	2	-	-	3	-	-
C123.4	2	3	1	-	1	1	-	-	3	-	-	2	-	-
C123.5	2	3	1	-	1	1	-	-	3	-	-	2	-	-
C123.6	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

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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	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: CSE-A **Semester: II** **W.E.F-03-04-2023** **LH:-D-107**

	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	ENG	EDC	AP	L U N C H	ITWS/EWS LAB			PYTHON LAB(T)/ EWS(T)
TUE	ODE	EDC	AP		ITWS/EWS LAB			ODE(T)/AP(T)
WED	ODE	AP	ENG		PYTHON LAB			LIBRARAY
THU	AP/ELCS LAB				ODE	EDC	AP	EWS(T)/ PYTHON LAB(T)
FRI	AP/ELCS LAB				ODE	AP	ES	AP(T)/ODE(T)
SAT	ENG	ODE	EDC		ES	ENG	EDC	ES

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA201BS	ODE-Ordinary Differential Equations & Vector Calculus	B.RAMADEVI	**AP205BS**	APLAB-Applied Physics Laboratory	P.SRINIVASACHARY/ B.SANTHI/M.JANAIAH/ M.MANISHA
AP202BS	AP-Applied Physics	P.SRINIVASACHARY	**CS201ES**	Python Programming Laboratory	D.SWAPNA/B.RAJASHWARI
EN204HS	ENG- English for Skill Enhancement	G.VENKAT REDDY	**EN207HS**	ELCS LAB-English Language and Communication Skills Laboratory	G.VENKAT REDDY/E.PRARTHANA
EC201ES	EDC-Electronics Devices and Circuits	T.BHAVANI	**CS203ES**	ITWS-IT Workshop	K.UMAVYSHNAVI/B.RAJITHA
ME202ES	EWS-Engineering Workshop	B.SRINUNAIK/ M.V.B.KALYAN	**MC201ES**	ES-Environmental Science	K.MOUNIKA

Class In-Charge **Time Table Coordinator** **Head of The Department**

Sri Indu Institute of Engineering & Technology SHERIGUDA

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X3

BR22

Lab External Question paper

Year & Semester: I-II Branch: CSE-A

Subject Name : ENGINEERING WORKSHOP LAB Faculty Name: B SRINU

EXTERNAL 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 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-II**

DATE	Day	Branch	Session	HT. No	Total No of Students
19-08-2023	SATURDAY	CSE-A	FN	**22X31A0501 TO 22X31A0565**	65
21-08-2023	MONDAY	CSE-C	FN	**22X31A05D1 TO 22X31A05J1**	61
22-08-2023	TUESDAY	CSE-B	AN	**22X31A0566 TO 22X31A05D0**	65
23-08-2023	WEDNESDAY	CS	FN	**22X31A6201 TO 22X31A6262**	62
24-08-2023	THURSDAY	DS	FN	**22X31A6701 TO 22X31A6764**	62

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EWS Lab External Time Table with examiners

A.Y.:2022-23 **SEM-II**

DATE	Day	Branch	Session	HT .No	Total No of Students	Internal Examiner	External Examiner
19-08-2023	SATURDAY	CSE-A	FN	**22X31A0501 TO 22X31A0565**	65	**B.SRINUNAIK** 9347139538 bnvthsrinu@gmail.com	Mr. T.Srinivasreddy Assit.Professor, GNITC. 9676438706 thummasrinu3@gmail.com
21-08-2023	MONDAY	CSE-C	FN	**22X31A05D1 TO 22X31A05J1**	61	**B.SRINUNAIK** 9347139538 bnvthsrinu@gmail.com	Ms.CH. ChandrikaAssit. Professor, GNITC. 7893122905, chandrika.gnitcmech@gniindia.org
22-08-2023	TUESDAY	CSE-B	AN	**22X31A0566 TO 22X31A05D0**	65	**B.SRINUNAIK** 9347139538 bnvthsrinu@gmail.com	Mr. N.Suresh Assit.Professor, GNITC. 7730882864 Sureshn.gnitc@gniindia.org
23-08-2023	WEDNESDAY	CS	FN	**22X31A6201 TO 22X31A6262**	62	**M.V.B. KALYAN** 7386666228 vasistakalyan29@gmail.com	Mr.P.Sekhar Reddy Assit.Professor, GNITC. 9666893606 sekharreddyp.megnitc@gniindia.org
24-08-2023	THURSDAY	DS	FN	**22X31A6701 TO 22X31A6764**	62	**W.MARUTHI** 7019274842 Maruti.sw@gmail.com	Mr. P.Satish Assit.Professor, GNITC. 8074289534 satishp.mechgnitc@gniindia.org

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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	VII3.15-4.00
MON				LUNCH	IBTECHIISEMCSE-A			
TUE	IBTECHIISEMDS				IBTECHIISEMCSE-A			
WED	IBTECHIISEMCS							
THU	IBTECHIISEMCSE-B				IBTECHIISEMCS			
FRI					IBTECHIISEMCSE-C			
SAT	IBTECHIISEMCSE-C				IBTECHIISEMCSE-B			

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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 a 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 a 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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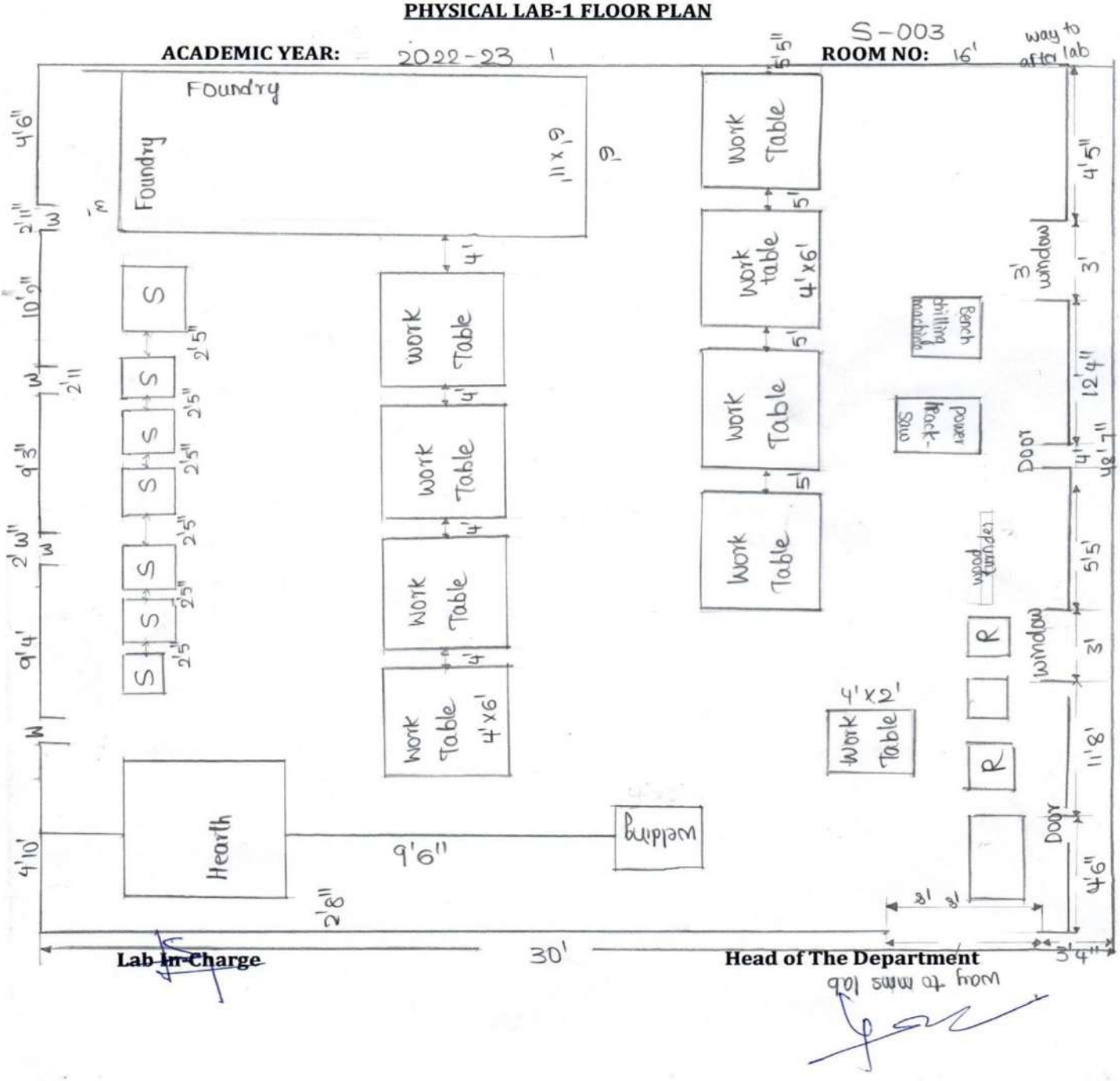
ENGINEERING WORKSHOP LAB

PHYSICAL LAB-1 FLOOR PLAN

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



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

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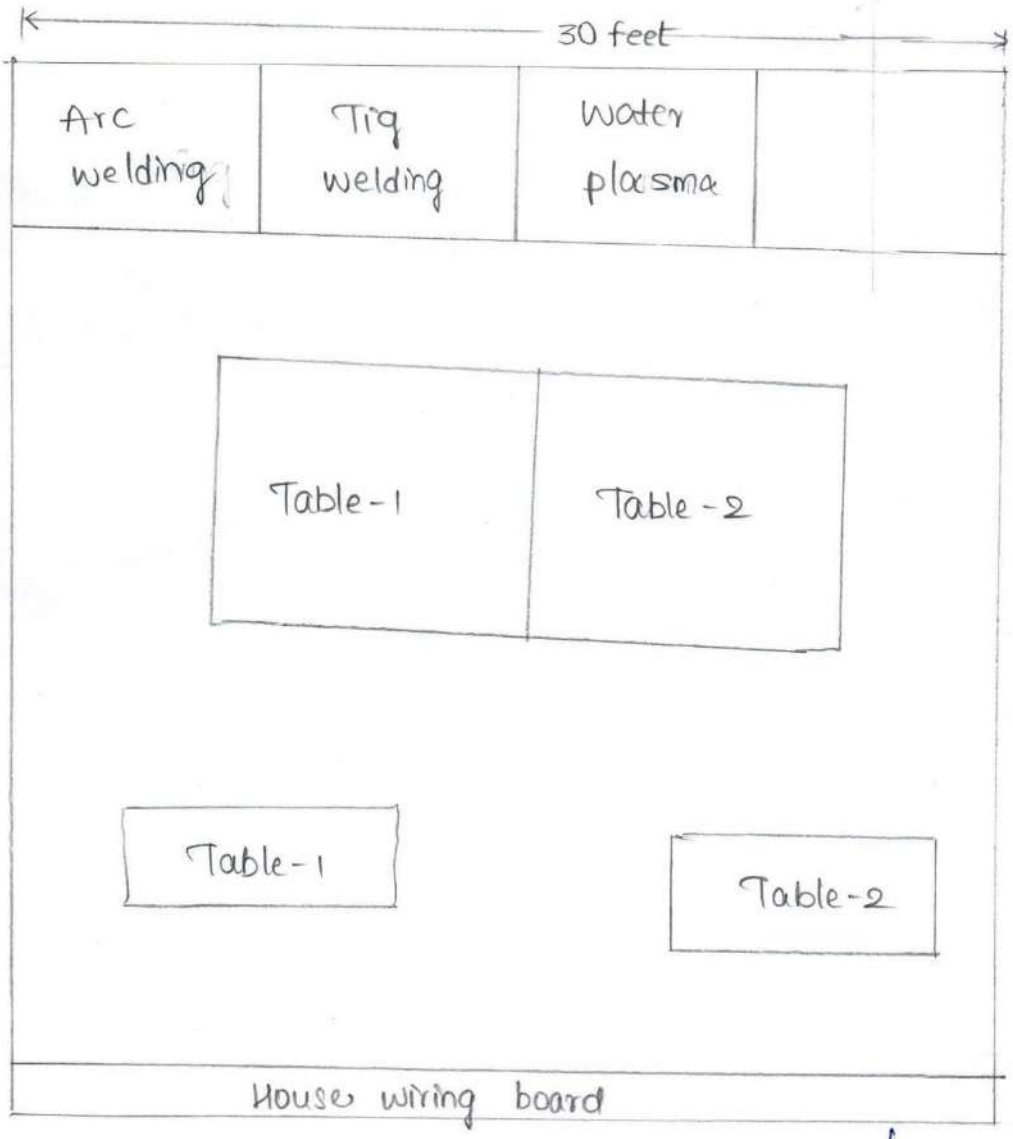
ENGINEERING WORKSHOP LAB

PHYSICAL LAB-1 FLOOR PLAN

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



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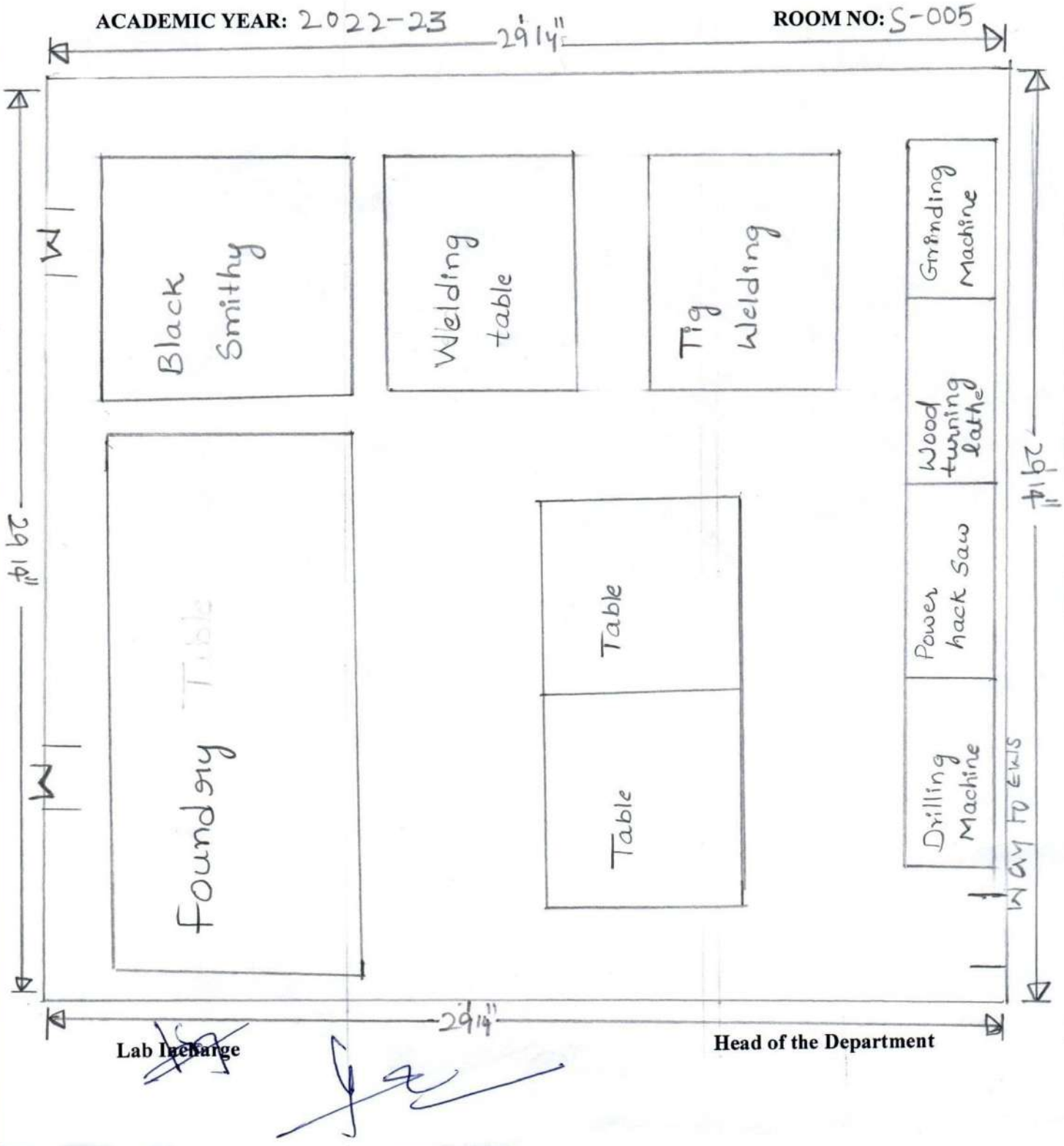
PHYSICAL LAB-2 FLOOR PLAN

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



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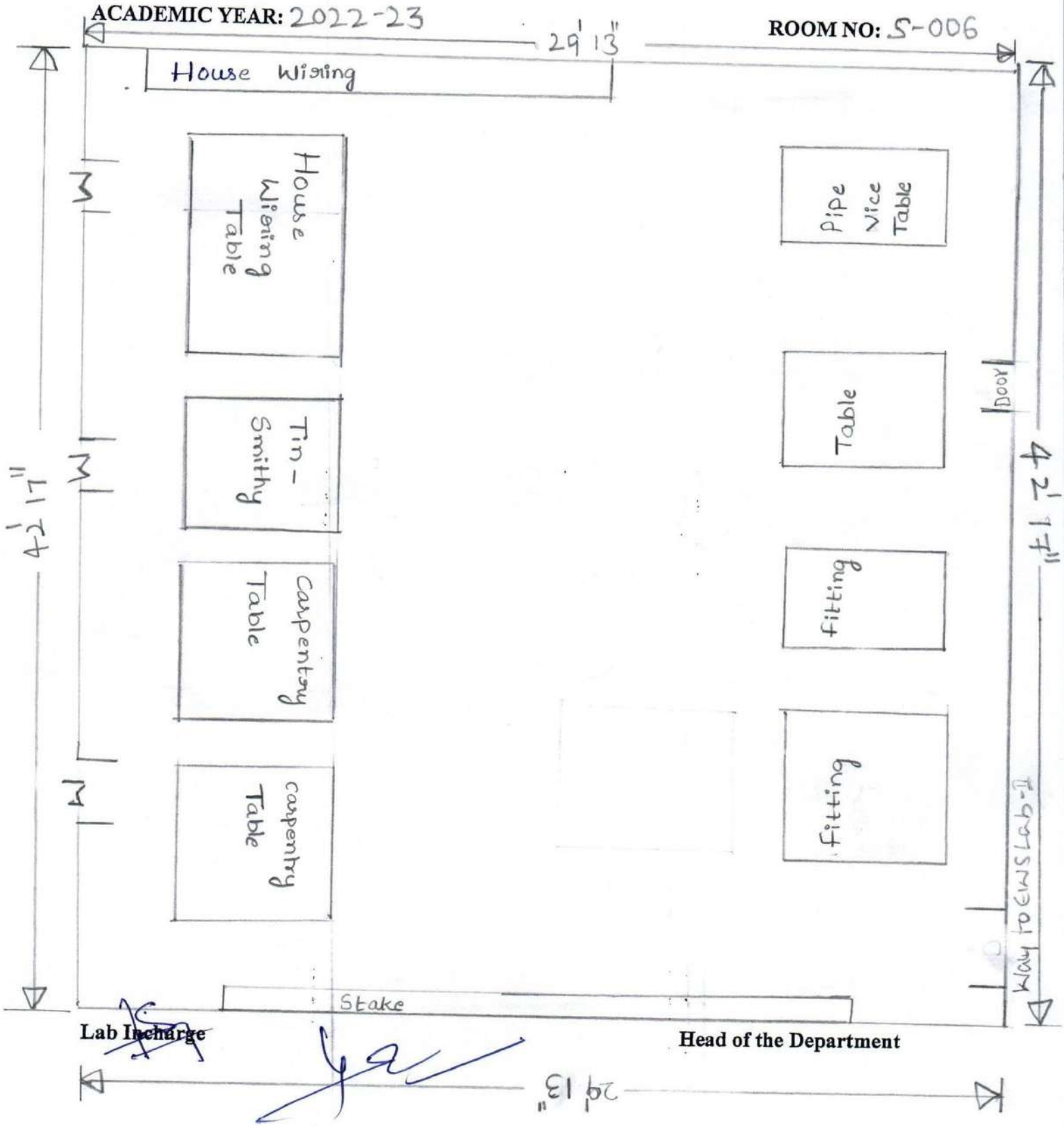
PHYSICAL LAB-2 FLOOR PLAN

ACADEMIC YEAR: 2022-23

ROOM NO: S-006



Lab Incharge

Head of the Department

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https://siiet.ac.in/

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:	CSE-A	Examination:	LAB INTERNAL- I
Lab Course Name:	ENGINEERING WORKSHOP	Year/semester	I/II

S .No	HT No.	R+O+A	V+V	E+E+R
Max .Marks==>		10	10	10
1	22X31A0501	10	5	10
2	22X31A0502	10	6	10
3	22X31A0503	10	6	10
4	22X31A0504	9	7	10
5	22X31A0505	10	6	10
6	22X31A0506	10	5	10
7	22X31A0507	10	5	10
8	22X31A0508	9	6	10
9	22X31A0509	10	7	10
10	22X31A0510	10	5	10
11	22X31A0511	10	6	10
12	22X31A0512	10	5	10
13	22X31A0513	10	5	10
14	22X31A0515	10	5	10
15	22X31A0516	10	7	10
16	22X31A0517	10	7	10
17	22X31A0518	10	7	10
18	22X31A0519	10	5	10
19	22X31A0520	10	5	10
20	22X31A0521	10	5	10
21	22X31A0522	10	4	10
22	22X31A0523	10	5	10
23	22X31A0524	10	0	10
24	22X31A0525	10	3	10
25	22X31A0526	10	4	10
26	22X31A0527	10	4	10
27	22X31A0528	10	5	10
28	22X31A0529	10	6	10
29	22X31A0530	10	6	10
30	22X31A0531	10	7	10
31	22X31A0533	10	7	10
32	22X31A0534	10	4	10
33	22X31A0535	10	5	10
34	22X31A0536	10	6	10
35	22X31A0537	10	4	10
36	22X31A0538	10	6	10
37	22X31A0539	10	6	10
38	22X31A0540	10	5	10
39	22X31A0541	10	6	10
40	22X31A0542	10	5	10
41	22X31A0543	10	7	10
42	22X31A0544	10	6	10
43	22X31A0545	10	9	10
44	22X31A0546	9	4	10
45	22X31A0547	10	7	10
46	22X31A0548	10	6	10
47	22X31A0549	10	9	10
48	22X31A0550	10	6	10
49	22X31A0551	10	9	10
50	22X31A0552	10	5	10
51	22X31A0553	10	6	10
52	22X31A0554	10	7	10
53	22X31A0555	10	6	10
54	22X31A0556	10	7	10
55	22X31A0557	10	6	10
56	22X31A0558	10	9	10
57	22X31A0559	10	9	10
58	22X31A0560	10	7	10
59	22X31A0561	10	7	10
60	22X31A0562	10	8	10
61	22X31A0563	10	8	10
62	22X31A0564	10	6	10
63	22X31A0565	10	5	10

Target set by the faculty / HoD	6.00	6.00	6.00
Number of students performed above the target	63	38	63
Number of students attempted	63	63	63
Percentage of students scored more than target	100%	60%	100%

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

CO	**Internal practical**	**E+E+R**	**Overall**	**Level**
CO-1	100%	100%	100%	3
CO-2	100%	100%	100%	3
CO-3	100%	100%	100%	3
CO-4	100%	100%	100%	3
CO-5	100%	100%	100%	3
CO-6	100%	100%	100%	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:	CSE-A	Examination:	LABINTERNAL-II
Lab Course Name:	ENGINEERING WORKSHOP	Year/semester	I/II

S.N o	HT No.	R+O+A	V+V	E+E+R	P pt
Max .Marks==>		10	10	10	10
1	22X31A0501	10	7	10	10
2	22X31A0502	10	7	10	10
3	22X31A0503	10	7	10	10
4	22X31A0504	10	7	10	10
5	22X31A0505	10	7	10	10
6	22X31A0506	10	6	10	10
7	22X31A0507	10	6	10	10
8	22X31A0508	10	6	10	10
9	22X31A0509	10	8	10	10
10	22X31A0510	10	6	10	10
11	22X31A0511	10	7	10	10
12	22X31A0512	10	6	10	10
13	22X31A0513	10	7	10	10
14	22X31A0515	10	7	10	10
15	22X31A0516	10	8	10	10
16	22X31A0517	10	8	10	10
17	22X31A0518	10	8	10	10
18	22X31A0519	10	7	10	10
19	22X31A0520	10	6	10	10
20	22X31A0521	10	7	10	10
21	22X31A0522	10	5	10	10
22	22X31A0523	10	7	10	10
23	22X31A0524	10	5	10	10
24	22X31A0525	10	4	10	10
25	22X31A0526	10	6	10	10
26	22X31A0527	10	6	10	10
27	22X31A0528	10	7	10	10
28	22X31A0529	10	7	10	10
29	22X31A0530	10	7	10	10
30	22X31A0531	10	7	10	10
31	22X31A0533	10	7	10	10
32	22X31A0534	10	4	10	10
33	22X31A0535	10	7	10	10
34	22X31A0536	10	7	10	10
35	22X31A0537	10	2	10	10
36	22X31A0538	10	7	10	10
37	22X31A0539	10	7	10	10
38	22X31A0540	10	8	10	10
39	22X31A0541	10	6	10	10
40	22X31A0542	10	7	10	10
41	22X31A0543	10	8	10	10
42	22X31A0544	10	8	10	10
43	22X31A0545	10	8	10	10
44	22X31A0546	0	0	0	10
45	22X31A0547	10	8	10	10
46	22X31A0548	0	0	0	10
47	22X31A0549	10	10	10	10
48	22X31A0550	10	7	10	10
49	22X31A0551	10	8	10	10
50	22X31A0552	10	7	10	10
51	22X31A0553	10	7	10	10
52	22X31A0554	10	7	10	10
53	22X31A0555	10	6	10	10
54	22X31A0556	10	7	10	10
55	22X31A0557	10	7	10	10
56	22X31A0558	10	9	10	10
57	22X31A0559	10	9	10	10
58	22X31A0560	10	8	10	10
59	22X31A0561	10	8	10	10
60	22X31A0562	10	8	10	10
61	22X31A0563	10	8	10	10
62	22X31A0564	10	7	10	10
63	22X31A0565	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	61	56	61	63
Number of students attempted	63	63	63	63
Percentage of students scored more than target	97%	89%	97%	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	97%	97%	97%	
CO-2	97%	89%	97%	
CO-3	97%	89%	97%	
CO-4	97%	89%	97%	97%
CO-5	97%	89%	97%	97%
CO-6	97%	89%	97%	97%

CO	**Internal practical**	**E+E+R**	**ppt**	**Overall**	**Level**
CO-1	97%	85%	91%		
CO-2	93%	85%	89%	3	3
CO-3	93%	85%	89%	3	3
CO-4	93%	85%	97%	92%	3
CO-5	93%	85%	97%	92%	3
CO-6	93%	85%	97%	92%	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:	CSE-A	Year/Semester:	I/II
Lab Course Name:	ENGINEERING WORKSHOP		

S.No	Roll Number	Marks Secured	S. No	Roll Number	Marks Secured
1	22X31A0501	51	35	22X31A0537	42
2	22X31A0502	59	36	22X31A0538	51
3	22X31A0503	49	37	22X31A0539	52
4	22X31A0504	58	38	22X31A0540	52
5	22X31A0505	56	39	22X31A0541	50
6	22X31A0506	50	40	22X31A0542	51
7	22X31A0507	51	41	22X31A0543	52
8	22X31A0508	50	42	22X31A0544	54
9	22X31A0509	54	43	22X31A0545	53
10	22X31A0510	53	44	22X31A0546	48
11	22X31A0511	56	45	22X31A0547	53
12	22X31A0512	50	46	22X31A0548	40
13	22X31A0513	53	47	22X31A0549	60
14	22X31A0515	54	48	22X31A0550	53
15	22X31A0516	55	49	22X31A0551	54
16	22X31A0517	54	50	22X31A0552	53
17	22X31A0518	54	51	22X31A0553	56
18	22X31A0519	50	52	22X31A0554	55
19	22X31A0520	55	53	22X31A0555	56
20	22X31A0521	51	54	22X31A0556	52
21	22X31A0522	49	55	22X31A0557	53
22	22X31A0523	60	56	22X31A0558	59
23	22X31A0524	44	57	22X31A0559	53
24	22X31A0525	45	58	22X31A0560	54
25	22X31A0526	50	59	22X31A0561	51
26	22X31A0527	47	60	22X31A0562	56
27	22X31A0531	52	61	22X31A0563	56
28	22X31A0529	53	62	22X31A0564	55
29	22X31A0530	53	63	22X31A0565	53
30	22X31A0531	58			
31	22X31A0533	54			
32	22X31A0534	50			
33	22X31A0535	48			
34	22X31A0536	55			

		Attainment Level	%students
Class Average mark	53		
Number of students performed above the target	36	1	40%
Number of successful students	63	2	50%
Percentage of students scored more than target	57%	3	60%
Attainment level	**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:	CSE-A	Year/Semester:	I/II
Lab Course Name:	ENGINEERING WORKSHOP		

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 for the course(Internal ,University)			1.75	0.90	
CO Attainment for the course (Direct Method)			2.65		

Overall course attainment level **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:	CSE-A	Year/Semester:	I/II
Course Name:	ENGINEERING WORKSHOP		

CO-PO Mapping

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C123.1	3	3	2	1					2	1		2		
C123.2	3	3	1	2	1				2	1		2		
C123.3	3				1	1			2			3		
C123.4	2	3	1		1	1			3			2		
C123.5	2	3	1		1	1			3			2		
C123.6	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	PSO1	PSO2
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)