

**EAMCET CODE: INDI** 









(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** 

# COURSE FILE

ON

# **APPLIED PHYSICS LAB**

Course Code - AP105BS

I B. Tech Semester-I

A.Y.2022-2023

Prepared by

P. SRINIVASA CHARY

Asst. Professor

Head of the Department Department of H&S

SRI INDU INSTITUTE OF ENGG & TECH heriauda(M) Ibrahimoatnam (M) R.R. Dist-501 516

PRINCIPAL

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



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JNTUH CODE: X3

Name of the Physical	
laboratory:	APPLIED PHYSICS LAB
Course code	AP105BS
Room No	B-201&D-106
Name of the lab in charge	B. SANTHI
Name of the faculty in charge	P SRINIVASA CHARY

# **Index of Lab File**

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# **INSTITUTE VISION & MISSION**

#### Vision:

**EAMCET CODE: INDI** 

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

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 modeling to complex engineering activities with an understanding of the limitations.

**PO6**: **THE ENGINEER AND SOCIETY**: Apply reasoning informed by the contextual knowledge to associate, 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

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# 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.	CS102ES	C Programming for Engineers	3	0	0	3
4.	ME102ES	Engineering Workshop	0	1	3	2.5
5.	EN104HS	English for Skill Enhancement	2	0	0	2
6.	EC101ES	Elements of Electronics and Communication Engineering	0	0	2	1
7.	AP105BS	Applied Physics Laboratory	0	0	3	1.5
8.	EN107HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS105ES	C Programming for Engineers 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	Т	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.	CS202ES	Applied Python Programming Laboratory	0	1	2	2
7.	CH206BS	Engineering Chemistry Laboratory	0	0	2	1
8.	EE202ES	Basic Electrical Engineering Laboratory	0	0	2	1
9.	EC202ES	Electronic Devices and Circuits Laboratory	0	0	2	1
		Total	11	3	12	20

# APPLIED PHYSICS LABORATORY (Course Code: AP105BS)

# B. Tech. I Year I Sem. L T P C 0 0 3 1.5

**Course Objectives:** The objectives of this course for the student to

- 1. Capable of handling instruments related to the Hall effect and photoelectric effect
  - Experiments and their measurements.
- 2. Understand the characteristics of various devices such as PN junction diode, Zener diode,
  - BJT, LED, solar cell, lasers and optical fiber and measurement of energy gap and Resistivity of semiconductor materials.
- 3. Able to measure the characteristics of dielectric constant of a given material.
- 4. Study the behavior of B-H curve of ferromagnetic materials.
- 5. Understanding the method of least squares fitting.

## **Course Outcomes:** The students will be able to:

- 1. Know the determination of the Planck's constant using Photo electric effect andidentify
  - the material whether it is n-type or p-type by Hall experiment.
- 2. Appreciate quantum physics in semiconductor devices and opto electronics.
- 3. Gain the knowledge of applications of dielectric constant.
- 4. Understand the variation of magnetic field and behavior of hysteresis curve.
- 5. Carried out data analysis.

## LIST OF EXPERIMENTS:

- 1. Determination of work function and Planck's constant using photoelectric effect.
- 2. Determination of Hall co-efficient and carrier concentration of a given semiconductor.
- 3. Characteristics of series and parallel LCR circuits.
- 4. V-I characteristics of a p-n junction diode and Zener diode
- 5. Input and output characteristics of BJT (CE, CB & CC configurations)
- 6. a) V-I and L-I characteristics of light emitting diode (LED)
  - b) V-I Characteristics of solar cell
- 7. Determination of Energy gap of a semiconductor.
- 8. Determination of the resistivity of semiconductor by two probe method.
- 9. Study B-H curve of a magnetic material.
- 10. Determination of dielectric constant of a given material
- 11. a) Determination of the beam divergence of the given LASER beam
  - b) Determination of Acceptance Angle and Numerical Aperture of an optical fiber.
- 12. Understanding the method of least squares torsional pendulum as an example.

*Note:* Any 8 experiments are to be performed.

#### **REFERENCE BOOK:**

1. S. Balasubramanian, M.N. Srinivasan "A Text book of Practical Physics" - S Chand Publishers 2017



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

A.Y: 2022-23 SEMESTERS: I CLASS: ECE

### **Course Outcomes**

After completing this course, the student will be able to:

C117.1	Demonstrate Photoelectric Effect and Determine the we constant.	ork Function and planks Understanding)L2
C117.2	Analyzing the properties of semiconductor materials.	(Analyzing)L4
C117.3	Illustrate the characteristics of semiconductors devices.	(Understanding)L2
C117.4	Construct LCR and RC circuit and evaluate their of	
C117.5	Find the properties of Laser and Optical fiber.	(Applying)L3 (Remembering) L1
C117.6	Explain the properties of least squares, Dielectric and n	nagnetic materials. (Evaluating) L5

# Mapping of course outcomes with program outcomes:

High -3 Medium -2 Low-1

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
C117.1	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C117.2	3	2	-	-	ı	-	-	-	-	ı	-	1	-	-
C117.3	3	2	-	-	-	-	-	-	-	-	•	1	-	-
C117.4	3	2	-	-	-	-	-	-	-	-	•	1	-	-
C117.5	3	2	-	-	-	-	-	-	-	-	•	1	-	-
C117.6	3	2	-	-	-	-	-	-	-	-	-	1	-	-
AVE	3	2	-	-	-	-	-	-	-	-	-	1	-	-



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# MAPPING OF EXPERIMENT OUTCOMES WITH CO/PO'S/PSO

EXPERIMENT OBJECTIVES	EXPERIMENT OUTCOMES	CO	PO'S
To determine the work function " $W_0$ " of a metal.	The student determinesthe work function in a given material using photoelectric effect	C117.1	PO1, PO2, PO12
1. To determine the Hallvoltage developed acrossthe sample material. 2.To calculate the Hall coefficient and the carrier concentration of the samplematerial	The student determinesthe hall voltage across the given sample and calculates the hall coefficient	C117.2	PO1, PO2, PO12
To study the frequency response and to find resonant frequency of L-C-R series and parallel Circuits.	The student studies the frequency and to find resonant frequency of L-C-R series and parallel cink	C117.4	PO1, PO2, PO12
To draw the characteristics of Zener diode	The student draws the characteristics of jutnand Zener diodes	C117.3	PO1, PO2, PO12
Observe the i/p and o/p characteristics of BJT (CE, CB and CC)	The student observes the c BJT (CE, CB and CC)	C117.3	PO1, PO2, PO12
1.To Plot the V/I characteristics of Solar Cell     2.To study the volt-ampere characteristics of a given LED source	The student can able toplot the V/I characteristics of SolarCell, LED	C117.3	PO1, PO2, PO12
To determine the energygap of a junction diode	The student will be ableto evaluate the energy gap between two allowed bands for isolated atoms and recognizing the resistivity of Semiconductor varies with temperature.	C117.2	PO1, PO2, PO12

To determine the resistivity of semiconductor by twoprobe method	The student will determine the resistivity of semiconductor by two probe methods.	C117.2	PO1, PO2, PO12
To study B-H of a magnetic material	The student will study B-H of a magnetic material	C117.6	PO1, PO2, PO12
To determine the dielectric constant of a given material	The student will determine the dielectric constant	C117.6	PO1, PO2, PO12
To determine the beam divergence of the given LASER beam and Numerical Aperture of anoptical fiber	The student will Determines the wave length of laser sourceusing single slit diffraction grating.	C117.5	PO1, PO2, PO12
Understanding the method of Least squares – torsional pen	The student Understanding Least squares – torsional	C117.6	PO1, PO2, PO12
To study the Charging and Discharging of a Capacitor	The student studies the Charging and Discharging of a Capacitor/Condenser	C117.5	PO1, PO2, PO12



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Class:	Class: IOT		Semester:	I	W.E.F-14-11-2022			<u>LH</u> :-D-110		
	1 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	M&C	ENG		M&C	ENG	AP	ECSE(T)		
TUE	M&C	PPS	AP	U	EWS/	ELCS LA	В	ENG(T)/M&C(T)		
WED		AP LAB	1	N C	ENG	PPS	E- CSE	WED		
THU	E	WS/ELCS LA	AΒ	Н	AP	M&C	PPS	PPS(T)/AP(T)		
FRI	M&C	AP	ECSE		PPS	AP	PPS	AP(T)/PPS(T)		
SAT	M&C	ENG	AP			PPS LAB	1	M&C(T)/ENG(T)		

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	W.MARUTHI /M.V.B.KALYAN
AP102BS	Applied Physics	P.SRINIVASA CHARY	AP105BS	Applied Physics - Lab	M.MANISHA/M.JANAIAH
CS103ES	Programming for Problem Solving	G.KALYANI	CS107ES	Programming for Problem Solving Lab	G.KALYANI /U.NARESH
EN104HS	English for Skill Enhancement	S.SWAPNA	EN107HS	English Language and Communication Skills Lab	S.SWAPNA/E.PRARTHANA
CS106ES	Elements of Computer Science & Engineering	P.SRILATHA	MC101ES	Environmental Science	K.MOUNIKA

Class In-Charge

Time Table Coordinator

SHERIGUDA

Head of The Department

Dr. R. YADAGIRI RAO

M.Sc.,B.Ed.,M.Tech(CSE).,Ph.D. Head of the Department Department of H&S

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**X3**BR22

Year & Semester: I-I Branch: CSE(IOT)

Subject Name: Applied Physics Lab Faculty Name: P Srinivasa Chary

## **EXTERNAL EXAM QUESTION PAPER**

- 1. Derive the values of i) Resonance Frequency ii) Band width iii) Quality Factor of the given LCR circuit.
- 2. Plot the V –I Characteristics of Solar Cell.
- 3. Determine the work function of given metal by using photoelectric effect.
- 4.Plot the V –I Characteristics of LED.
- 5. Determine the energy gap of a given semiconductor.
- 6. Find Rigidity modulus of given wire using Torsional Pendulum.
- 7. Determine the beam divergence of the given LASER light.
- 8. Determine the acceptance angle and numerical aperture of an optical fiber.
- 9. Find Hall coefficient and carrier concentration of a given semiconductor.
- 10. Determine the dielectric constant of a given material.



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# AP 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	AI&ML-A	FN	22X31A6601TO 22X31A6650	50
10-3-2023	FRIDAY	AI&ML-B	AN	22X31A6651TO 22X31A6697	47
11-3-2023	SATURDAY	AI&DS	FN	22X31A7201TO 22X31A7264	64
11-3-2023	SATURDAY	IOT	AN	22X31A6901TO 22X31A6963	63
13-3-2003	MONDAY	ECE	FN	22X31A0401 TO 22X31A0464	
13-3-2003	MONDAY	CIVIL	FN	22X31A0101 TO 22X31A0103	3

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# AP Lab External Time Table Examination Branch

A.Y.: 2022-23 SEM-I

					Total No	Re	marks
Date	Day	Branch	Session	HT. No	of Students	Internal Examiner	External Examiner
10-3-2023	FRIDAY	AI&ML-A	FN	22X31A6601 TO 22X31A6650	50	M.JANAIAH (9291513934)	Mr.M.Venkateswarlu (9490189395)
10-3-2023	FRIDAY	AI&ML-B	AN	22X31A6651 TO 22X31A6697	47	M.JANAIAH (9291513934)	Mr.M.Venkateswarlu (9490189395)
11-3-2023	SATURDAY	AI&DS	FN	22X31A7201 TO 22X31A7264	64	B. SANTHI (9493978954)	Dr.B.Rajinikanth (7893092879)
11-3-2023	SATURDAY	IOT	AN	22X31A6901 TO 22X31A6963	63	P. SRINIVASA CHARY (9848662600)	Dr.B. Rajinikanth (7893092879)
13-3-2003	MONDAY	ECE	FN	22X31A0401 TO 22X31A0464	64	B. SANTHI (9493978954)	Narasimha (9952583969)
13-3-2003	MONDAY	CIVIL	FN	22X31A0101 TO 22X31A0103	3	B. SANTHI (9493978954)	Narasimha (9952583969)

FN: 9.40 am to 12.25 pm AN: 1.00 pm to 4.00 pm

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### DEPARTMENT OF HUMANITIES AND SCIENCES

# **Lab Occupancy Time Table for AY 2022-2023**

Class: IB. Tech Semester: I W.E.F-14-11-2022 LH: B-201

	1	1 2 3		12:10-	4	5	6	7
Period/ Day	9:40- 10:30	10:30-11:20	11:20- 12:10	12:45	12.45-1.35	1:35- 2.25	2:25- 3:15	3:15-4:00
Monday	M	AINTAINANC	CE					
Tuesday				L	A	IML-B(BA	TCH-II)	
Wednesday	I	OT(BATCH-II	I)	U				
Thursday	E	CE(BATCH-II	(I)	N		CIVIL		
Friday				С		AIDS(BAT	TCH-II)	
Saturday		AIML-A(BAT	CH-II)	Н	]	MAINTAIN	NANCE	

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### DEPARTMENT OF HUMANITIES AND SCIENCES

# **Lab Occupancy Time Table for AY 2022-2023**

Class: IB. Tech Semester: I W.E.F-14-11-2022 LH: D-106

	1	2	3		4	5	6	7
Period/ Day	9:40- 10:30	10:30- 11:20	11:20- 12:10	12:10- 12:45	12.45- 1.35	1:35- 2.25	2:25- 3:15	3:15- 4:00
Monday	N	MAINTAIN	ANCE					
Tuesday				L U	Al	IML-B(BA	ГСН-І)	
Wednesday	IC	T(BATCH-	-I)	N				
Thursday	EC	CE(BATCH	-I)	С				
Friday				Н		AIDS(BAT	CH-I)	
Saturday	A	IML-A(BA	ГСН-І)		N	//AINTAIN	ANCE	

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(M), Ranga Reddy Dist., Telangana – 501 510Website:

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#### APPLIED PHYSICS LAB

Course: B. Tech. I Year SUB CODE: AP105BS

#### Do's

- 1. Conduct in a responsible manner at all times in the laboratory.
- 2. Keep the work area clean, neat and free of any unnecessary objects.
- 3. Read the description, procedure and precautions of the experiment in the lab manual.
- 4. Place all sensitive electronic equipment safely on experimental table.
- 5. Before using the equipment, one must read the labels and instructions carefully.
- 6. Set up and use the equipment as directed by the lab instructor.
- 7. Circuit connections are to be done only in power off mode.
- 8. Checkout the circuit connections before switching on the power.
- 9. Increase the power readings from minimum to maximum.
- 10. All procedures and experimental data should be recorded in the lab observation notebook.
- 11. Switch of the power in the circuit after completion of the experiment.
- 12. Any failure / break-down of equipment must be reported to the instructor.
- 13. Return the material properly after the completing the experiment.
- 14. Replace the materials in proper place after work.
- 15. Be careful when handling optical items like prisms, gratings etc.

## Don't s

- 1. Do not wear loose clothing and do not hold any conducting materials in contact with skin when the power is on.
- 2. Do not touch any equipment or other materials in the laboratory area until instructed by instructor.
- 3. Do not modify or damage the laboratory equipment in any way unless the modification is directed by the instructor.
- 4. Do not handle electrical equipment and connections with wet hands.
- 5. Do not try to connect power in to the circuit without proper understanding of the circuit diagram.
- 6. Do not look directly into laser source.
- 7. Do not short any battery box or power supply, it may damage retina in your eye.
- 8. Never switch on the power button of the circuit until it has been approved by instruction

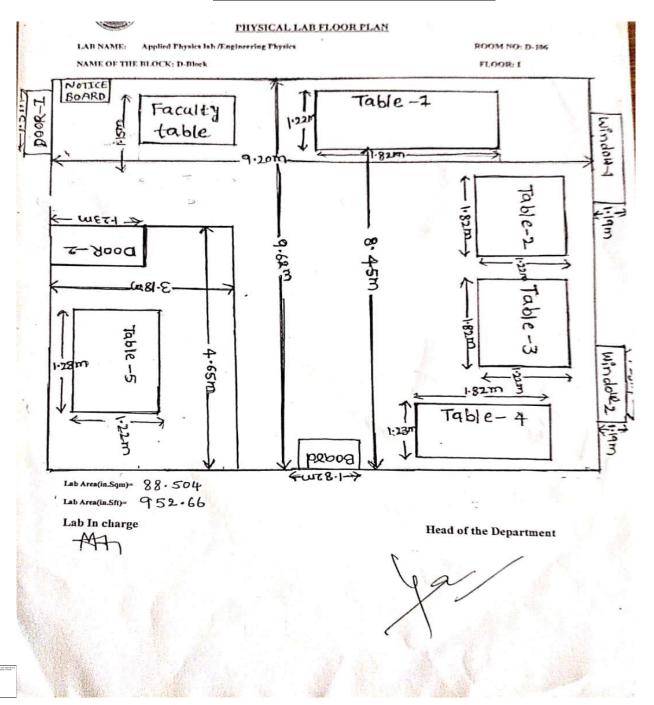
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### **APPLIED PHYSICS LAB - 1 FLOOR PLAN**



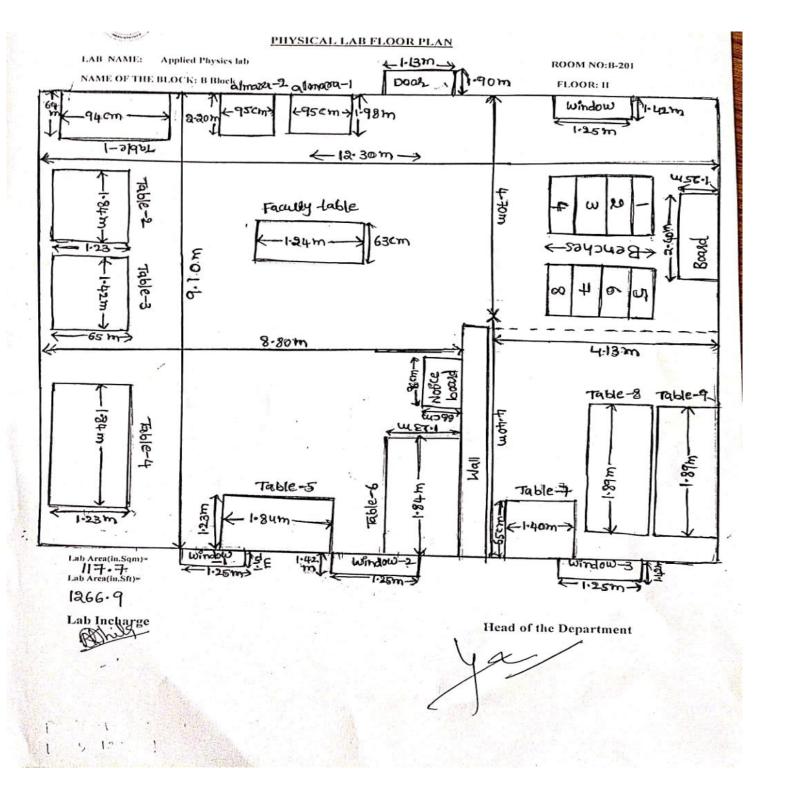
# TOTAL TOTAL

# 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/

### **APPLIED PHYSICS LAB - 2 FLOOR PLAN**





(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 510Website: https://siiet.ac.in/

# Lab manual link

https://drive.google.com/file/d/1UTyWcm6bNeIw5qa 7CrdjE7PxMdQmHJ/view?usp=sharing

#### SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY Department of Humanities and Sciences **Course Outcome Attainment (Internal Examination-1)** P SRINIVASA CHARY Name of the faculty: Academic Year: 2022 - 23 Branch & Section: IOT LAB INTERNAL-I Examination: Lab Course Name: APPLIED PHYSICS LAB Year/semester I/IE+E+R S.No HT No. V+VR+O+A Max. Marks ==> 22X31A6901 22X31A6902 22X31A6903 22X31A6904 22X31A6905 22X31A6906 22X31A6907 22X31A6908 22X31A6909 22X31A6910 22X31A6911 22X31A6912 22X31A6913 22X31A6914 22X31A6915 22X31A6916 22X31A6917 22X31A6918 22X31A6919 22X31A6920 22X31A6921 22X31A6922 22X31A6923 22X31A6924 22X31A6925 22X31A6926 22X31A6927 22X31A6928 22X31A6929 22X31A6930 22X31A6931 22X31A6932 22X31A6933 22X31A6934 22X31A6935 22X31A6936 22X31A6937 22X31A6938 22X31A6939 22X31A6940 22X31A6941 22X31A6942 22X31A6943 22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951 22X31A6952 22X31A6953 22X31A6954 22X31A6955 22X31A6956 22X31A6957 22X31A6958 22X31A6959 22X31A6960 22X31A6961 22X31A6962

22X31A6963

Number of students	<b>/</b>					
performed above the target	63	41	55			
Number of students	63	63	63			
Percentage of students cored more than target	100%	65%	87%			
CO Mapping with Exam Que	estions:					
CO - 1	y	y	Y			
CO - 2	y	<u>y</u>	Y			
CO - 3	y	<u>y</u>	Y			
CO - 4		<u></u>				
CO - 5						
CO - 6						
CO Attainment based on Exa	am Questions:					
CO - 1	100%	100%	87%			
CO - 2	100%	100%	87%			
CO - 3	100%	100%	87%			
CO - 4						
CO - 5						
CO - 6						
СО	Intrnal practical	E+E+R	OveralI	Level	Attainm	ent Level
CO-1	100%	87%	94%	3	1	40%
CO-2	100%	87%	94%	3	2	50%
CO-3	100%	87%	94%	3	3	60%
CO-4						
CO-5						
CO-6	+					
Attainment (	Internal 1 Ex	zamination	<u> </u>	3		

2022 - 23

Department of Humanities and Sciences

**Course Outcome Attainment (Internal Examination-2)** 

P SRINIVASA CHARY Academic Year: Name of the faculty:

IOT LAB INTERNAL-II Branch & Section: Examination:

Lab Course Name: APPLIED PHYSICS LAB Year/semester I/I

2         2           3         2           4         2           5         2           6         2           7         2           8         2           9         2           10         2           11         2           13         2           14         2           15         2           16         2           17         2           20         2           21         2           22         2           23         2           24         2           25         2           26         2           27         2           28         2           30         2           31         2           32         3           33         2           34         2           35         2           36         2           37         2           38         2           37         2           38         2           3	22X31A6901 22X31A6902 22X31A6903 22X31A6904 22X31A6906 22X31A6906 22X31A6907 22X31A6908 22X31A6910 22X31A6911 22X31A6911 22X31A6912 22X31A6913 22X31A6914 22X31A6915 22X31A6916 22X31A6917 22X31A6917 22X31A6917	R+O+A  10  10  7  10  10  10  10  10  10  10	V+V 10 8 5 4 4 5 8 6 6 7 8 9 6 6 7 8 9 8	E+E+R  10  10  8  8  6  6  9  6  7  10  10  6  7  5  8	ppt 10 10 10 10 10 10 10 10 10 10 10 10 10
1         22           2         2           3         22           4         22           5         22           6         22           7         22           8         22           9         22           10         25           11         22           13         22           14         22           15         22           16         22           20         22           21         22           22         21           22         22           23         22           24         22           25         22           26         22           27         22           28         22           30         22           31         22           32         32           33         2           34         2           35         2           36         2           37         2           38         2           37         2 </th <th>22X31A6901 22X31A6902 22X31A6903 22X31A6904 22X31A6906 22X31A6906 22X31A6907 22X31A6908 22X31A6910 22X31A6911 22X31A6911 22X31A6912 22X31A6913 22X31A6914 22X31A6915 22X31A6916 22X31A6917 22X31A6917 22X31A6917</th> <th>10 7 10 10 10 10 10 10 10 10 10 10 10 10 10</th> <th>8 5 4 4 4 5 8 6 6 7 8 9 6 6 6 5 4 7</th> <th>10 8 8 8 6 6 9 6 6 7 10 10 6 7 5 8</th> <th>10 10 10 10 10 10 10 10 10 10 10 10 10 1</th>	22X31A6901 22X31A6902 22X31A6903 22X31A6904 22X31A6906 22X31A6906 22X31A6907 22X31A6908 22X31A6910 22X31A6911 22X31A6911 22X31A6912 22X31A6913 22X31A6914 22X31A6915 22X31A6916 22X31A6917 22X31A6917 22X31A6917	10 7 10 10 10 10 10 10 10 10 10 10 10 10 10	8 5 4 4 4 5 8 6 6 7 8 9 6 6 6 5 4 7	10 8 8 8 6 6 9 6 6 7 10 10 6 7 5 8	10 10 10 10 10 10 10 10 10 10 10 10 10 1
2 22 3 22 6 22 7 22 8 22 10 22 11 22 13 22 14 22 15 22 16 22 17 22 18 22 16 22 17 22 18 22 18 22 19 22 21 22 22 22 23 22 24 22 24 22 25 26 22 26 22 27 22 28 22 29 22 21 22 23 22 24 22 25 26 27 27 28 22 28 22 29 22 30 22 31 22 32 24 25 22 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 32 34 22 35 32 34 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 32 34 22 35 32 34 22 35 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 32 34 22 35 36 22 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 36 22 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 22 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 22 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 36 22 36 22 37 22 38 22 39 22 31 22 31 22 32 32 34 22 35 36 22 37 22 38 22 39 22 31 22 31 22 32 32 32 33 32 22 34 32 22 35 36 22 37 38 22 37 38 22 38 39 22 39 40 22 41 22 42 43 22 44 22 45 22 46 22 47 22 48 22 59 22 51 22 52 22	22X31A6902 22X31A6903 22X31A6904 22X31A6906 22X31A6906 22X31A6907 22X31A6908 22X31A6910 22X31A6911 22X31A6911 22X31A6912 22X31A6913 22X31A6915 22X31A6915 22X31A6916 22X31A6917 22X31A6917	7 10 10 10 10 10 10 10 10 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	5 4 4 5 8 6 6 7 8 9 6 6 6 5 4	8 8 6 6 9 6 6 7 10 10 6 7 5	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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4 22 5 22 6 22 7 22 8 22 10 22 11 22 13 22 14 22 15 22 16 22 16 22 17 22 18 22 18 22 19 20 21 22 22 22 23 22 24 22 24 22 25 26 22 27 22 28 22 29 20 30 22 31 22 33 22 34 22 35 22 36 22 37 22 38 22 39 22 30 22 31 22 31 22 31 22 32 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 34 22 35 32 36 22 37 22 38 22 39 22 30 22 31 22 31 22 32 33 22 34 22 35 22 36 22 37 22 38 22 39 22 30 22 31 22 31 22 32 32 34 22 35 22 36 22 37 22 38 22 37 22 38 22 37 22 38 22 37 22 38 22 37 22 38 22 37 22 38 22 39 22 30 22 31 22 31 22 32 32 33 22 34 22 35 32 36 22 37 22 38 22 37 22 38 22 39 22 30 22 31 22 31 22 32 32 33 22 34 22 35 32 35 22 36 22 37 22 38 22 37 22 38 22 39 22 30 22 31 22 31 22 32 32 33 32 22 33 32 22 33 32 22 34 22 35 32 22 35 36 22 37 22 38 22 39 22 30 22 31 22 31 22 32 32 33 32 22 33 32 22 33 32 22 33 32 22 33 32 22 33 32 22 33 32 22 33 32 22 34 22 35 32 22 35 36 22 37 22 38 22 39 22 30 22 31 22 32 32 32 32 32 32 33 32 22 32 22 32 22 22 32	22X31A6904 22X31A6905 22X31A6906 22X31A6907 22X31A6908 22X31A6910 22X31A6910 22X31A6911 22X31A6912 22X31A6913 22X31A6915 22X31A6915 22X31A6916 22X31A6916 22X31A6917 22X31A6917	10 10 10 10 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	4 5 8 6 6 7 8 9 6 6 6 5	6 6 9 6 6 7 10 10 6 7 5	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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6 22 7 22 8 22 10 22 11 22 13 22 14 22 15 22 17 22 18 22 18 22 19 22 20 22 21 22 22 22 23 22 24 22 25 26 22 27 22 28 22 29 22 30 22 31 22 33 22 34 22 35 22 36 22 37 22 38 22 39 22 31 22 31 22 41 22 42 42 42 42 43 44 45 45 46 47 48 48 49 49 49 49 49 50 22 51 22 23 24 24 25 26 27 28 29 20 21 20 21 21 22 23 24 25 26 27 28 29 20 21 20 21 21 22 24 25 26 27 28 29 20 31 20 31 20 31 20 31 20 31 20 31 32 32 34 35 36 22 37 38 22 38 39 22 40 22 41 22 43 44 22 44 45 45 22 44 47 22 48 22 49 50 22 51 22 52 52 52 52 52 52	22X31A6906 22X31A6907 22X31A6908 22X31A6909 22X31A6910 22X31A6911 22X31A6912 22X31A6913 22X31A6914 22X31A6915 22X31A6916 22X31A6917 22X31A6918 22X31A6918	10 6 6 10 10 10 10 6 10 10 10 10 10	8 6 6 7 8 9 6 6 6 5	9 6 6 7 10 10 6 7 5	10 10 10 10 10 10 10 10 10
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15 22 16 22 17 22 18 22 19 22 20 22 21 22 22 22 23 22 24 22 25 22 26 22 27 28 22 28 22 29 22 30 22 31 22 33 22 34 22 35 22 40 22 41 22 43 22 44 22 44 22 44 22 44 22 44 22 44 22 44 22 44 22 44 22 44 22 45 46 22 46 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6915 22X31A6916 22X31A6917 22X31A6918 22X31A6919	10 10 10 6	4 7	8	
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30 22 31 22 32 25 33 22 34 22 35 22 36 22 37 22 38 22 40 22 41 22 42 22 43 22 44 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22	22X31A6928	10	8	10	10
31 22 32 22 33 22 34 22 35 22 36 22 37 22 38 22 39 22 40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 50 22 51 22 52 22	22X31A6929	10	8	10	10
32 22 33 22 33 22 33 22 34 22 35 22 36 22 37 22 38 22 40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 50 22 51 22	22X31A6930	9	7	7	10
33 22 34 22 35 22 36 22 37 22 38 22 40 22 41 22 43 22 44 22 45 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6931	10	9	10	10
34 22 35 22 36 22 37 22 38 22 39 22 40 22 41 22 43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22	22X31A6932	9	4	7	10
35 22 36 22 37 22 38 22 39 22 40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22	22X31A6933	8	6	7	10
36 22 37 22 38 22 39 22 40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22	22X31A6934	10	8	10	10
37 22 38 22 39 22 40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22	22X31A6935	9	6	7	10
38 22 39 22 40 22 41 22 43 22 44 22 45 22 46 22 47 22 48 22 50 22 51 22	22X31A6936	10	7	8	10
39 22 40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 50 22 51 22 52 22	22X31A6937	7	6	7	10
40 22 41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 50 22 51 22 52 22	22X31A6938	10	7	9	10
41 22 42 22 43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6939	10	8	10	10
42 22 43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6940	7	6	8	10
43 22 44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6941	9	6	7	10
44 22 45 22 46 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6942	10	9	8	10
45 22 46 22 47 22 48 22 49 22 50 22 51 22 52 22	22X31A6943	10	7	7	10
46 22 47 22 48 22 49 22 50 22 51 22 52 22		10	6	7	10
47 22 48 22 49 22 50 22 51 22 52 22	22X31A6944	. 7	6	7	10
48 22 49 22 50 22 51 22 52 22	22X31A6944 22X31A6945	7		7	10
49     22       50     22       51     22       52     22	22X31A6944 22X31A6945 22X31A6946	10	5	_	10
50 22 51 22 52 22	22X31A6944 22X31A6945 22X31A6946 22X31A6947	10	5	7	
51 22 52 22	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948	10 10 8	5 8	7	10
52 22	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949	10 10 8 10	5 8 6	7 8	10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950	10 10 8 10 6	5 8 6 6	7 8 7	10 10 10
53 22	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951	10 10 8 10 6 10	5 8 6 6 8	7 8 7 9	10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951	10 10 8 10 6 10 9	5 8 6 6 8 4	7 8 7 9 7	10 10 10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951 22X31A6952 22X31A6953	10 10 8 10 6 10 9	5 8 6 6 8 4	7 8 7 9 7 9	10 10 10 10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951 22X31A6952 22X31A6953 22X31A6953	10 10 8 10 6 10 9 9	5 8 6 6 8 4 8	7 8 7 9 7 9 7	10 10 10 10 10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951 22X31A6952 22X31A6953 22X31A6953 22X31A6954	10 10 8 10 6 10 9 9	5 8 6 6 8 4 8 6 5	7 8 7 9 7 9 7	10 10 10 10 10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951 22X31A6952 22X31A6953 22X31A6954 22X31A6954 22X31A6956	10 10 8 10 6 10 9 9 10 10	5 8 6 6 8 4 8 6 5	7 8 7 9 7 9 7 7	10 10 10 10 10 10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6950 22X31A6951 22X31A6952 22X31A6953 22X31A6954 22X31A6955 22X31A6955 22X31A6955 22X31A6955	10 10 8 10 6 10 9 9 10 10 9	5 8 6 6 8 4 8 6 5 7	7 8 7 9 7 9 7 7 7	10 10 10 10 10 10 10 10 10 10
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6950 22X31A6951 22X31A6951 22X31A6952 22X31A6953 22X31A6955 22X31A6955 22X31A6955 22X31A6955	10 10 8 10 6 10 9 9 10 10 9 10	5 8 6 6 8 4 8 6 5 7	7 8 7 9 7 9 7 7 7 7 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6950 22X31A6950 22X31A6951 22X31A6952 22X31A6953 22X31A6954 22X31A6955 22X31A6955 22X31A6955 22X31A6955 22X31A6956	10 10 8 10 6 10 9 10 10 10 10 10	5 8 6 6 8 4 8 6 5 7 9	7 8 7 9 7 9 7 7 7 10 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6950 22X31A6951 22X31A6951 22X31A6953 22X31A6954 22X31A6955 22X31A6956 22X31A6956 22X31A6956 22X31A6956 22X31A6956 22X31A6956 22X31A6956	10 10 8 10 6 10 9 9 10 10 10 10 10	5 8 6 6 8 4 8 6 5 7 9 9	7 8 7 9 7 9 7 7 7 10 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6949 22X31A6951 22X31A6951 22X31A6953 22X31A6954 22X31A6955 22X31A6956 22X31A6956 22X31A6956 22X31A6957 22X31A6959 22X31A6958 22X31A6958 22X31A6958	10 10 8 10 6 10 9 9 10 10 10 10 10 10 10 10	5 8 6 6 8 4 8 6 5 7 9 9 5 6	7 8 7 9 7 9 7 7 7 10 10 10 7	10 10 10 10 10 10 10 10 10 10 10 10 10 1
63 22	22X31A6944 22X31A6945 22X31A6946 22X31A6947 22X31A6948 22X31A6950 22X31A6951 22X31A6951 22X31A6953 22X31A6954 22X31A6955 22X31A6956 22X31A6956 22X31A6956 22X31A6956 22X31A6956 22X31A6956 22X31A6956	10 10 8 10 6 10 9 9 10 10 10 10 10	5 8 6 6 8 4 8 6 5 7 9 9	7 8 7 9 7 9 7 7 7 10 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1

Target set by the faculty / HoD	6.00	6.00	6.00	6.00			
Number of students performed above the target	63	49	61	63			
Number of students attempted	63	63	63	63			
Percentage of students scored more than target	100%	78%	97%	100%			
CO Mapping with Exam Que	estions:						
CO - 1							
CO - 2							
CO - 3							
CO - 4	y	y	Y	у			
CO - 5	y	y	Y	У			
CO - 6	y	y	Y	У			
CO Attainment based on Ex	am Questions:						
CO - 1							
CO - 2							
CO - 3							
CO - 4	100%	78%	97%	97%			
CO - 5	100%	78%	97%	97%			
CO - 6	100%	78%	97%	97%			
СО	Intrnal practical	E+E+R	ppt	OveralI	Level	Attainn	ent Level
CO-1	nu nai pracuca	EIEIK	ppr	Ownan	IL VCI	1	40%
CO-2	†					2	50%
CO-3	†					3	60%
CO-4	89%	97%	97%	94%	3		3070
CO-5	89%	97%	97%	94%	3		
CO-6	89%	97%	97%	94%	3		
Attainment (			- II		3		
Auamment (		ammanon	i) —		3		

Department of Humanities and Sciences

Course Outcome	Attainment (	University	<b>Examinations</b> )

Name of the faculty: P SRINIVASA CHARY Academic Year: 2022 - 23

Branch & Section: IOT Year / Semester: I/I

Branci	a & Section:	101		Year / Ser	nester:	1/1
Lab C	ourse Name:	APPLIED PHYSICS LAB				
S.No	Roll Number	Marks Secured		S.No	Roll Number	Marks Secured
1	22X31A6901	52		35	22X31A6935	43
2	22X31A6902	40		36	22X31A6936	42
3	22X31A6903	48		37	22X31A6937	44
4	22X31A6904	43		38	22X31A6938	49
5	22X31A6905	42		39	22X31A6939	48
6	22X31A6906			40	22X31A6940	
7		52				46
	22X31A6907	47		41	22X31A6941	41
8	22X31A6908	43		42	22X31A6942	51
9	22X31A6909	48		43	22X31A6943	47
10	22X31A6910	53		44	22X31A6944	48
11	22X31A6911	55		45	22X31A6945	43
12	22X31A6912	46		46	22X31A6946	42
13	22X31A6913	47		47	22X31A6947	46
14	22X31A6914	48		48	22X31A6948	47
15	22X31A6915	45		49	22X31A6949	50
16	22X31A6916	46		50	22X31A6950	40
17	22X31A6917	43		51	22X31A6951	48
18	22X31A6918	49		52	22X31A6952	48
19	22X31A6919	47		53	22X31A6953	55
20	22X31A6920	46		54	22X31A6954	48
21	22X31A6921	48		55	22X31A6955	44
22	22X31A6922	40		56	22X31A6956	47
23	22X31A6923	54		57	22X31A6957	48
24	22X31A6924			58	22X31A6957 22X31A6958	
25		46		59	22X31A6958 22X31A6959	54
	22X31A6925	45				39
26	22X31A6926	47		60	22X31A6960	48
27	22X31A6927	50		61	22X31A6961	52
28	22X31A6928	54		62	22X31A6962	40
29	22X31A6929	54		63	22X31A6963	45
30	22X31A6930	47				
31	22X31A6931	58				
32	22X31A6932	46				
33	22X31A6933	45				
34	22X31A6934	52				
lass A	verage mark	1	47		Attainment Level	% students
		med above the target				
	of successful stud		28		1	40%
			63		2	50%
		ored more than target	44%		3	60%
Attai	nment level		2			

SRI INDU I	NSTITU	UTE OF EN	GINEE	RING AND T	TECHNOLOGY
SELOT ENGINEERING	Departme	ent of Humanities	and Scien	ices	
CANADA CA	•	Course Ou	tcome At	tainment	<u>'</u>
GRAFOMENTAMA STATES					
Name of the faculty	P SRINIV	ASA CHARY		Academic Year:	2022 - 23
Branch & Section:	IOT			Year / Semester:	I/I
Lab Course Name:	APPLIED I	PHYSICS LAB			
Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
CO1	3.00		3.00	2.00	2.70
CO2	3.00		3.00	2.00	2.70
CO3	3.00		3.00	2.00	2.70
CO4		3.00	3.00	2.00	2.70
CO5		3.00	3.00	2.00	2.70
CO6		3.00	3.00	2.00	2.70
Inter	nal & Unive	ersity Attainment:	3.00	2.00	
		Weightage	70%	30%	
CO Attainment for the	e course (Int	ternal, University)	2.10	0.60	
CO Attainment for	the course (	Direct Method)		2.70	
Overall co	urse a	ttainmen	ıt leve	el	2.70

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TANK TO THE PARTY OF THE PARTY	CHMOTO		I		_		Attair							
BRAHIMPATHAM														
Name o	f Facu	lty:	P SRII	NIVAS	A CHA	RY		Acade	emic Y	Tear:	2022 -	- 23		
3ranch 8	& Sect	ion:	IOT					Year	/ Sem	ester:	I/I			
Course I	Name	:	APPL	IED PH	HYSICS	LAB								
														_
CO-PO r	nappı PO1		PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	3	2	103	104	105	100	107	1 00	103	1010	1011	1	1 301	1 302
CO1												-		
CO2	3	2										1		+
CO3	3	2										1		+
CO4 CO5	3	2										1		
CO6	3	2										1		
ourse												1.00		
ourse	5.00	2.00										1.00		+
														_
														_
<b>:</b> O					Cor	ırse C	utcom	e Atta	inme	nt				1
<u>.U</u>							2.70							+
							2.70	9						
01														4
							2.70	О						
02														-
							2.70	)						
:ОЗ														
204							2.70	О						
04	-						2.70	2						-
							2.70	J						
CO5							2.7	2						_
206							2.70	<u> </u>						
Overall	cour	se att	tainm	ent l	evel				2	.70				
PO-ATT	MNIA	ENT												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
co														
Attainm														
ent	2.70	1.80	<u> </u>	Ь	<u> </u>	<u> </u>	<u> </u>					0.90		+
O contr	bution	to PC	- 33%	, 67%,	100% (L	evel 1	(2/3)							
														+