

Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology) An Autonomous Institution Under UGĆ NAAC Accredited. Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

NUN

ESTD: 2007

EAMCET CODE: INDI

JNTUH CODE: X3

COURSE FILE

ON

APPLIED PHYSICS LAB

Course Code - AP205BS

I B. Tech Semester-II

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 beriouda(M) Ibrahimostnam (M) R.R. Dist-501 516

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

https://siiet.ac.in



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SNUL

ESTD: 2007

JNTUH CODE: X3

Name of the Physical	
laboratory:	APPLIED PHYSICS LAB
Course code	AP205BS
Room No	B-201 & D-106
Name of the lab in charge	P SRINIVASA CHARY
Name of the faculty in charge	M.JANAIAH

Index of Lab File

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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 technicaland 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 stakeholder

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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 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

Head of the Department Department of H&S SRI INDU INSTITUTE OF ENGG & TECH Perioudal^(A) Ibrahimoatnam (M) R.R. Dist-501 510

B. Tech. in COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE, I YEAR SYLLABUS (BR22 Regulations) Applicable from Academic Year: 2022-23 Batch

I Year II Semester

S. No.	Course Code	Course Title		T	Р	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	2	1
		Induction Program				
		Total	12	2	12	20

I Year II Semester

S. No.	Course Code	Course	L	Т	Р	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.	EN207HS	English Language and Communication Skills Laboratory		0	2	1
9.	CS203ES	IT Workshop	0	0	2	1
10.	*MC201ES	Environmental Science	3	0	0	0
		Total	13	4	12	20

APPLIED PHYSICS LABORATORY (Course Code: AP205BS)

B. Tech. I Year II Sem.

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 and identify the material whether it is n-type or p-type by Hall experiment.
- 2. Appreciate quantum physics in semiconductor devices and microelectronics.
- 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:

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

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A.	Y: 2022-23	SEMESTER: II	CLASS:	CSE-A

Course Outcomes

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

C126.1	Demonstrate Photoelectric Effect and Determine the work Function and planks
	constant (Understanding)L2
C126.2	Analysing the properties of semiconductor materials. (Analysing)L4
C126.3	Illustrate the characteristics of semiconductors devices. (Understanding)L2
C126.4	Construct LCR and RC circuit and evaluate their characteristics
	(Applying)L3
C126.5	Find the properties of Laser and Optical fibre. (Remembering) L1
C126.6	Explain the properties of least squares, Dielectric and magnetic materials.

(Evaluating) L5

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C126.1	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C126.2	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C126.3	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C126.4	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C126.5	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C126.6	3	2	-	-	-	-	-	-	-	-	-	1	-	-
AVE	3	2	-	-	-	-	-	-	-	-	-	1	-	-

Mapping of course outcomes with program outcomes:

High -3 Medium -2 Low-1



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

EXPERIMENT OBJECTIVES	EXPERIMENT OUTCOMES	СО	PO'S
To determine the work function "φ" of a metal.	The student determines the work function in a given material using photoelectric effect	C126.1	PO1, PO2, PO12
 To determine the Hall voltage developed across the sample material. To calculate the Hall coefficient and the carrier concentration of the sample material 	The student determines the hall voltage across the given sample and calculates the hall coefficient	C126.2	PO1, PO2, PO12
To study the frequency response and to find resonant frequencies of L-C-R series and parallel Circuits.	The student studies the frequence and to find resonant frequencie of L-C-R series and parallel Circuits.		PO1, PO2, PO12
To draw the characteristics of p-n Zener diode	The student draws the characteri junction and Zener diodes	C126.3	PO1, PO2, PO12
Observe the i/p and o/p character Of BJT (CE, CB and CC)	The student observes the charact (CE, CB and CC)	C126.3	PO1, PO2, PO12
1.To Plot the V/I characteristics of Solar Cell2.To study the volt-ampere characteristics of a given LED source	The student can able to plot the V/I characteristics of Solar Cell, LED	C126.3	PO1, PO2, PO12
To determine the energy gap of a junction diode	The student will be able to evaluate the energy gap between two allowed bands for isolated atoms and recognizing the resistivity of semiconductor varies with temperature.	C126.2	PO1, PO2, PO12

To determine the resistivity of semiconductor by two probe method	The student will determine the resistivity of semiconductor by two probe method	C126.2	PO1, PO2, PO12
To study B-H of a magnetic material	The student will study B-H of a magnetic material	C126.6	PO1, PO2, PO12
To determine the dielectric constant of a given material	The student will determine the dielectric constant	C126.6	PO1, PO2, PO12
To determine the beam divergence of the given LASER beam and Numerical Aperture of an optical fiber	The student will determine the wave length of laser source using single slit diffraction grating.	C126.5	PO1, PO2, PO12
Understanding the method of Least squares – torsional pendulu	The student Understanding the r Least squares – torsional pendul	C126.6	PO1, PO2, PO12
To study the Charging and Discharging of a Capacitor	The student studies the Charging and Discharging of a Capacitor/Condenser	C126.5	PO1, PO2, PO12



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	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	ITWS/EWS	S LAB	PYTHON LAB(T)/ EWS(T)	
TUE	ODE	EDC	AP	U	ITWS/EWS	S LAB	ODE(T)/AP(T)	
WED	ODE	AP	ENG	N C	PYTHON LAB			LIBRARAY
THU	AP/ELCS LAB			н	ODE	EDC	AP	EWS(T)/ PYTHON LAB(T)
FRI	AP/ELCS LAB				ODE	AP	ES	AP(T)/ODE(T)
SAT	ENG	ODE	EDC	1	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.SRINIVASACHA RY	CS201ES	Python Programming Laboratory	D.SWAPNA/B.RAJASH WARI	
EN204HS	ENG- English for Skill Enhancement	G.VENKAT REDDY	EN207HS	ELCS LAB-English Language and Communication Skills Laboratory	G.VENKAT REDDY/E.PRARTHAN A	
EC201ES	EDC-Electronics Devices and Circuits	T.BHAVANI	CS203ES	ITWS-IT Workshop	K.UMAVYSHNAVI/B.R AJITHA	
ME202ES	EWS-Engineering Workshop	B.SRINUNAIK/ M.V.B.KALYAN	MC201ES	ES-Environmental Science	K.MOUNIKA	

Class In-Charge

0

Time Table Coordinator SHERIGUDA

Head of The Department

Sti Indu Institute of Engg. & Tech Main Road, Sheriguda(V), Ibrahimpatnam(M), R.R. Dist, Telangana-501 510



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AP Lab External Question Paper A.Y: 2022-23 DATE: 24-08-23(FN)

SEM-II

Branch: CSE-A

- 1. Determine the work function of given metal by using photoelectric effect.
- 2. Derive the values of i) Resonance Frequency ii) Band width iii) Quality Factor of the given LCR circuit.
- 3. Plot the V –I Characteristics of LED.
- 4. Determine the energy gap of a given semiconductor.
- 5. Determine the dielectric constant of a given material.
- 6. Determine the beam divergence of the given LASER light.
- 7. Determine the acceptance angle and numerical aperture of an optical fiber.
- 8. Find Hall coefficient and carrier concentration of a given semiconductor.
- 9. Draw the V-I characteristics of P-N junction diode
- 10. Plot the V –I Characteristics of Zener diode.
- 11. Plot the V –I Characteristics of solar cell.



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AP Lab External Time Table Examination Branch

A.Y.: 2022-23

SEM-II

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

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

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AP Lab External Time Table with examiners

A.Y.: 2022-23

SEM-II

					Total	R	emarks
Date	Day	Branch	Sessio n	HT.No	No of Stude nts	Internal Examiner	External Examiner
19-08-23	SATURDAY	CSE-C	AN	22X31A05D1 TO 22X31A05J1	61	B. SANTHI (9493978954)	Dr. B. Narsimha (9490356088)
21-08-23	MONDAY	CSE-B	AN	AN 22X31A0566 TO 22X31A05D0		M.JANAIAH (9291513934)	Mrs. G. Sandhya (9441719540)
22-08-23	TUESDAY	CS	FN	22X31A6201 TO 22X31A6262	62	B. SANTHI (9493978954)	Dr. B. Narsimha (9490356088)
23-08-23	WEDNESDA Y	DS	FN	22X31A6701 TO 22X31A6764	62	M.JANAIAH (9291513934)	Mr. P. Venkatesh- (9014229680)
24-08-23	THURSDAY	CSE-A	FN	22X31A0501 TO 22X31A0565	65	P. SRINIVASA CHARY (9848662600)	Dr. B. Rajini Kanth (7893092879)

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: II

W.E.F-03-04-2023

LH: B-201

	1	1 2		3 12:10- 12:45		5	6	7
Period/ Day	9:40-10:30	10:30-11:20	11:20- 12:10	12.45	12.45-1.35	12.45-1.35 1:35- 2.25		3:15-4:00
Monday								
Tuesday	CSE-B	(BATCH-II)		L				
Wednesday				U N C	CSE	-II)		
Thursday	M	AINTANANCE		Н				
Friday	CS	E-A (BATCH-II)		DATA SCIENCE(BATCH-1)			
Saturday	CYBER S	ECURITY(BA1	CH-II)		DATA SO	CIENCE(BA	TCH-1I)	

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DEPARTMENT OF HUMANITIES AND SCIENCES

Lab Occupancy Time Table for AY 2022-2023

Class: IB. Tech

Semester: II

W.E.F- 03-04-2023

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- 4:00
Monday	CSE-C (H	BATCH-I)			CSE			
Tuesday					MA			
Wednesday								
Thursday	CSE-	A(BATCH-	I)					
Friday					CYBER S			
Saturday								

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

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APPLIED PHYSICS LAB

Course: B. Tech. I Year

SUB CODE: AP205BS

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 instructor.



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APPLIED PHYSICS LAB - 1 FLOOR PLAN PHYSICAL LAB FLOOR PLAN A DA COM Applied Physics 1ab /Engineering Physics LAB NAME: ROOM NO: D-ING NAME OF THE BLOCK: D-Block FLOOR: I BOARD Table -7 I-2000 -1110-1-Faculty 1.221 Windows table J, 1.82100 I 90 1.82.00-WET-5 -19 8.450 Dook-T 3-18= 80 3 Table -5 1.65m 1.7 ġ 1-82.11 Table-4 12m 1.23 pebog -478.1 Lab Area(in_Sqm)= 88.504 Lab Area(in.Sf)= 952.66 Lab In charge Head of the Department



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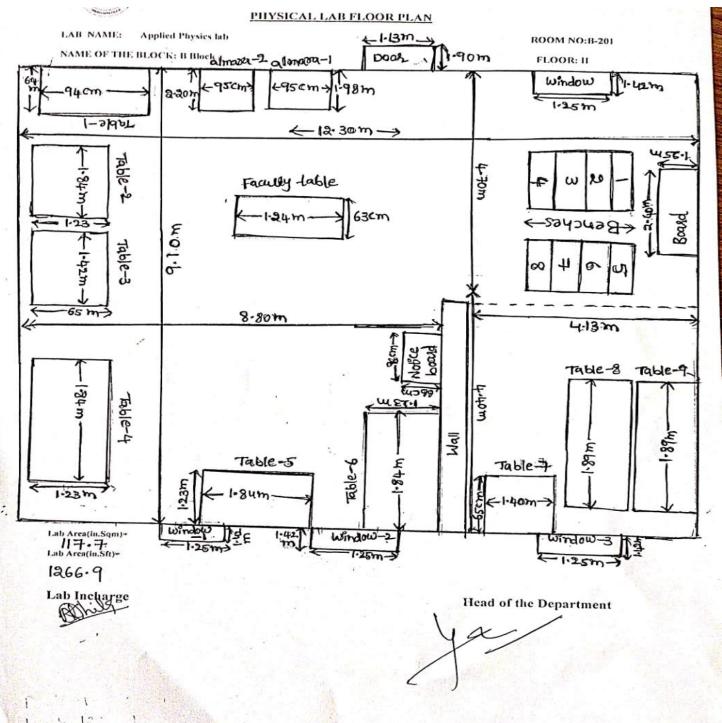
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APPLIED PHYSICS LAB - 2FLOOR PLAN





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Lab manual link

https://drive.google.com/file/d/1UTyWcm6bNeIw5qa_7CrdjE7PxMdQmHJ/view?usp=s haring

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY Department of Humanities and Sciences

AL OF ENGINEENING

SNYWYZZ WEINE		Departmen	it of Humanitie	s and Sciences	
South Strange	Course Outcom	e Attainment (Internal Exa	mination-1)	
Name o	of the faculty :	P SRINIVASA		Academic Year:	2022 - 23
Branch	& Section:	CSE-A		Examination:	LAB INTERNAL-I
Lab Co	ourse Name:	APPLIED PHYSI	CS	Year/semester	I/II
S.No	HT No.	R+O+A		E+E+R	
Max. Ma		10	10	10	
1 2	22X31A0501 22X31A0502	7 10	<u>6</u> 9	10	
3	22X31A0502 22X31A0503	9	7	8	
4	22X31A0504	8	6	9	
5	22X31A0505	9	7	9	
6	22X31A0506	10	8	9	
7	22X31A0507	10	5	8	
8	22X31A0508	9 9	7 8	10	
10	22X31A0509 22X31A0510	6	7	9	
11	22X31A0511	10	7	10	
12	22X31A0512	9	8	10	
13	22X31A0513	9	8	9	
14	22X31A0514	A	A	A	1
15	22X31A0515	10	7	10	1
16 17	22X31A0516 22X31A0517	9 10	<u> </u>	10	1
17	22X31A0517 22X31A0518	10	5	9	
19	22X31A0518 22X31A0519	10	6	9	1
20	22X31A0520	6	7	8	
21	22X31A0521	10	6	10	
22	22X31A0522	7	6	9	
23	22X31A0523	9	9	10	
24 25	22X31A0524 22X31A0525	7 9	<u>6</u> 7	8	
26	22X31A0525	10	6	10	
27	22X31A0527	8	6	7	
28	22X31A0528	10	6	10	
29	22X31A0529	9	10	10	
30	22X31A0530	10	6	10	-
31 32	22X31A0531	10	10	10	
33	22X31A0532 22X31A0533	A 10	<u>A</u> 9	A 10	
34	22X31A0535 22X31A0534	9	6	7	
35	22X31A0535	8	4	9	
36	22X31A0536	10	10	8	
37	22X31A0537	7	5	8	
38	<u>22X31A0538</u>	8	8	8	
39 40	22X31A0539	8	<u> </u>	7 8	
41	22X31A0540 22X31A0541	8	6	7	
42	22X31A0542	9	5	7	
43	22X31A0543	9	7	9	
44	22X31A0544	9	6	9	1
45	22X31A0545	10	9	9	4
46 47	22X31A0546	7	<u>6</u>	10	1
47	22X31A0547 22X31A0548	10 9	<u> </u>	8	1
49	22X31A0548 22X31A0549	10	10	10	1
50	22X31A0550	10	7	9	
51	22X31A0551	9	8	8	
52	22X31A0552	10	10	9	1
53	22X31A0553	10	10	9	4
54 55	22X31A0554	9 10	7	9	1
55 56	22X31A0555 22X31A0556	9	7	8	1
57	22X31A0557	9	7	8	1
58	22X31A0558	9	10	10	
59	22X31A0559	8	10	9	
60	22X31A0560	9	7	8	4
61	22X31A0561	9	7	10	1
62 63	22X31A0562	10	9	10	1
63 64	22X31A0563 22X31A0564	8	<u> </u>	10 8	1
65		8	8	8	
0.5	22X31A0565	0			

Target set by the faculty / HoD	6.00	6.00	6.00			
Number of students performed above the target	63	57	63			
Number of students attempted	63	63	63			
Percentage of students scored more than target	100%	90%	100%			
CO Mapping with Exam Que	estions:					
CO - 1	Y	Y	Y			
CO - 2	Y	Y	Y			
CO - 3	Y	Y	Y			
CO - 4	_					
CO - 5						
CO - 6						
CO Attainment based on Exa		1000	1000/			
CO - 1	100%	100%	100%			
CO - 2	100%	100%	100%			
CO - 3	100%	100%	100%			
<u>CO - 4</u>						
CO - 5 CO - 6						
00 0						
СО	Intrnal practic	E+E+R	OveralI	Level	Attain	ment Le
CO-1	100%	100%	100%	3	1	40%
CO-2	100%	100%	100%	3	2	50%
CO-3	100%	100%	100%	3	3	60%
CO-4						
CO-5						
CO-6						
Attainment (Internal 1	Examina	tion) =	3		

SETINDUMENTATION OF PARIMETRA NAL TECHNOLOGY Department of Internal Examination 2) Course Outcome Allainment (Internal Examination 2) Prince A Soction: Course Outcome Allainment (Internal Examination 2) Prince A Soction: Course Name: Course Name: Soction: Soction:Soction: Soction: Soction: Soction: Soction: Soction: Soction: Soction: Soction: <th< th=""><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	-							
Course Outcome Attainment (Internal Examination-2)Name of the facuty: Branch & Section:P SRINIVASA CHAR Academic 2022 - 23Name of the facuty: branch & Section:P SRINIVASA CHAR Academic 2022 - 33NumeriaIIT No: T 22X31A05001P 10NumeriaIIT No: T 22X31A0501P 10NumeriaIIT No: T 22X31A0501P 10NumeriaIIT No: T 22X31A0501P 10NumeriaIIT No: T 22X31A0511P 10NumeriaIIT No: T 22X31A0512P 10NumeriaIIT No: T 22X31A0511P 10NumeriaIIT No: T 22X31A0512P 10NumeriaIIT No: T 10P 8NumeriaIIT No: T 10P 8NumeriaIIT No: T 10P 8NumeriaIIT No: T 10NumeriaIIT No: T 10Numeri	OF UNGINEERING					LOGY		
Anne of the faculty : Branch & Section: P SHINIVASA CHAR Academic 2022 - 23 CHAR Academic 2022 - 23 Branch & Section: CSE-A APPLIED PHYSICS CMainmatit LAB INTERNAL II Year/Section [7] SiNo IIT No. R+0+A APPLIED PHYSICS Ft+1+0 PI Year/Section [7] SiNo IIT No. R+0+A A V+V Ft+Ft+R pt Io SiNo IIT No. R+0+A A V=V Ft+Ft+R pt Io SiNo IIT No. R+0+A A V=V Ft+Ft+R pt Io 3 22X31A0502 9 8 8 10 4 22X31A0503 9 8 8 10 7 22X31A0504 9 9 9 10 10 8 22X31A0512 7 7 10 10 11 22X31A0513 9 9 8 10 12 22X31A0514 0 9 8 10 13 22X31A0515 9 7 7 10 14 22X31A0522 <	Service and			ines and Be				
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Lab Course Name: APPLIED PHYSICS Year/sem L11 S.No HT No. R+O+A V+V L5/L5/R ppt Max.Marks ==> 10 10 10 10 1 22X31A0501 8 8 8 10 2 22X31A0502 9 9 10 10 3 22X31A0505 30 9 8 10 6 22X31A0505 30 9 8 10 7 22X31A0507 9 8 7 10 6 22X31A0507 9 8 8 10 11 22X31A0512 7 7 7 10 12 22X31A0512 7 7 7 10 13 22X31A0512 9 9 10 10 14 22X31A0512 9 7 7 10 15 22X31A0521 10 8 8 10 16 22X31A0521	-	2	P SRINIVA	ASA CHAR	Academic	2022 - 23		
S.No. PT No. Ref. A.A V+V E+E+R ppt Max.Marks \rightarrow 10 10 10 10 1 22X31A0501 8 8 8 10 2 22X31A0502 9 9 10 10 3 22X31A0503 10 9 8 10 4 22X31A0506 9 8 9 10 6 22X31A0507 9 8 7 10 7 22X31A0508 9 9 9 10 10 0 22X31A0511 10 9 9 10 10 11 22X31A0512 7 7 7 10 10 14 22X31A0514 0 0 0 10 10 12 22X31A0518 10 8 8 10 13 22X31A0523 9 9 10 10 14 22X31A0524 8	-						TERNAL-II	
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122331A050188810222231A05029991010322331A05040101010422331A0504010989722331A0506998710822331A050798710922331A0509987101022331A0509987101122331A0511888101222331A051277101322331A0513998101422331A0514000101522331A05159910101622331A05169910101722331A051798881822331A05266101922331A0521077102122331A0521977102222331A0523878102322331A05239910102422331A05249910102522331A0525877102622331A0525877102722331A05249910102822331A0525877102922331A052								
3 22X31A0503 9 8 8 10 4 22X31A0504 9 10 10 10 5 22X31A0505 10 9 8 10 7 22X31A0506 9 8 7 10 7 22X31A0507 9 8 7 10 9 22X31A0507 9 8 7 10 10 22X31A0510 8 8 8 10 11 22X31A0511 0 9 9 10 12 22X31A0512 7 7 7 10 14 22X31A0513 9 9 8 10 15 22X31A0514 0 0 0 10 16 22X31A0515 8 8 8 10 17 22X31A0514 0 9 8 10 18 22X31A0520 6 6 10 10 21 22X31A0521 0 7 7 10 22 22X31A0523	1	22X31A0501						
422X31A05009101010522X31A050009810622X31A050008710722X31A050708710822X31A05070889101022X31A05108888101122X31A0511109910101222X31A0512777101322X31A0513900101422X31A0514000101522X31A05159109101622X31A05169109101722X31A0517988101822X31A05181089102022X31A05239910102122X31A0524977102222X31A0525878102322X31A05261099102422X31A05261099102522X31A052610910102622X31A05329910103122X31A0532889103222X31A0532889103322X31A0532889103422X31A053388910 <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>			-	-				
5 22X31A0505 10 9 8 10 7 22X31A0506 0 8 9 10 7 22X31A0507 9 8 7 10 8 22X31A0508 0 9 9 10 6 22X31A0508 0 8 7 10 11 22X31A0511 10 9 8 10 12 22X31A0512 7 7 7 10 13 22X31A0513 9 9 8 10 14 22X31A0515 9 9 10 10 15 22X31A0515 9 9 10 10 16 22X31A0517 0 8 8 10 20 22X31A0512 9 7 7 10 21 22X31A0523 6 8 10 10 22 22X31A0524 9 7 10 10 23 22X31A0525 9 7 10 10 24 22X31A0526 10 9 9 10 25 22X31A0527 6 8 9 10 26 22X31A0528 9 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
6 22X31A0506 9 8 9 10 7 22X31A0507 9 8 7 10 8 22X31A0509 9 9 9 10 9 22X31A0509 9 8 7 10 10 22X31A0501 8 8 8 10 11 22X31A0512 7 7 7 10 13 22X31A0514 0 0 0 10 14 22X31A0515 9 9 10 10 15 22X31A0516 9 10 9 10 16 22X31A0520 6 6 10 10 21 22X31A0521 10 9 8 10 22 22X31A0523 9 7 7 10 24 22X31A0524 9 7 7 10 25 22X31A0525 8 7 8 10 26			~					
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1122X31A05111099101222X31A0512777101322X31A0513998101422X31A0514000101522X31A051599910101622X31A05169910101722X31A0517988101822X31A05181089102022X31A0521977102122X31A0522977102222X31A05239910102422X31A0524977102522X31A0525878102622X31A05261099102722X31A0527689102822X31A0523989103022X31A053310910103422X31A0535869103522X31A0535869103622X31A0535889103722X31A0535889103822X31A0535889103922X31A0535889104422X31A0541108793822X31A05428991044					-			
13 $22X31A0513$ 99981014 $22X31A0516$ 999101015 $22X31A0516$ 999101016 $22X31A0517$ 9881017 $22X31A0518$ 10891019 $22X31A0519$ 8881020 $22X31A0520$ 66101021 $22X31A0521$ 10981022 $22X31A0522$ 9771023 $22X31A0523$ 9991024 $22X31A0524$ 9771025 $22X31A0526$ 8781026 $22X31A0526$ 9891027 $22X31A0526$ 9891028 $22X31A0526$ 99101029 $22X31A0526$ 99101031 $22X31A0532$ 0001032 $22X31A0534$ 8881034 $22X31A0534$ 8891036 $22X31A0536$ 99101037 $22X31A0536$ 8791038 $22X31A0536$ 8791044 $22X31A0546$ 8791045 $22X31A0546$ 8681046 $22X31A0546$			10	9	9	10		
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Target set by the faculty / HoD	6.00	6.00	6.00	6.00			
Number of students performed above the target	63	63	63	65			
Number of students attempted	65	65	65	65			
Percentage of students scored more than target	97%	97%	97%	100%			
CO Mapping with Exam Que	estions:						
CO - 1							
CO - 2							
CO - 3							
CO - 4	Y	Y	Y	Y			
CO - 5	Y	Y	Y	Y			
CO - 6	Y	Y	Y	Y			
CO Attainment based on Ex	am Questions:						
CO - 1							
CO - 2							
CO - 3							
CO - 4	97%	97%	97%	97%			
CO - 5	97%	97%	97%	97%			
CO - 6	97%	97%	97%	97%			
со	Intrnal pract	E+E+R	ppt	OveralI	Level	Attainm	nent Leve
CO-1						1	40%
CO-2						2	50%
CO-3						3	60%
CO-4	97%	97%	97%	97%	3		
CO-5	97%	97%	97%	97%	3		
CO-6	97%	97%	97%	97%	3		
Attainment (=	3			
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	Sunna a	Department of H	Iumani	ties and Sc	iences	
IIII IIII	<u>Cours</u>	e Outcome Attainme	nt (Un	iversity E	<u>xaminations)</u>	
Name	e of the faculty :	P SRINIVASA CHAP	RY	Academic	Year:	2022 - 23
Branc	ch & Section:	CSE-A		Year / Ser	nester:	I/II
Lab (Course Name:	APPLIED PHYSICS				
S.No	Roll Number	Marks Secured		S.No	Roll Number	arks Secured
1	22X31A0501	45		35	22X31A0535	41
2	22X31A0502	55		36	22X31A0536	53
3	22X31A0503	40		37	22X31A0537	32
4	22X31A0504	50		38	22X31A0538	44
5	22X31A0505	48		39	22X31A0539	40
6	22X31A0506	49		40	22X31A0540	49
7	22X31A0507	46		41	22X31A0541	46
8	22X31A0508	48		42	22X31A0542	45
9	22X31A0509	47		43	22X31A0543	48
10	22X31A0510	45		44	22X31A0544	49
11	22X31A0511	52		45	22X31A0545	54
12	22X31A0512	48		46	22X31A0546	37
13	22X31A0513	42		47	22X31A0547	48
14	22X31A0514			48	22X31A0548	39
15	22X31A0515	47		49	22X31A0549	58
16	22X31A0516	49		50	22X31A0550	50
17	22X31A0517	48		51	22X31A0551	52
18	22X31A0518	46		52	22X31A0552	50
19	22X31A0519	48		53	22X31A0553	53
20	22X31A0520	40		54	22X31A0554	49
21	22X31A0521	51		55	22X31A0555	51
22	22X31A0522	36		56	22X31A0556	42
23	22X31A0523	52		57	22X31A0557	34
24	22X31A0524	34	7	58	22X31A0558	53
25	22X31A0525	32		59	22X31A0559	51
26	22X31A0526	54		60	22X31A0560	45
27	22X31A0527	44		61	22X31A0561	41
28	22X31A0528	49		62	22X31A0562	52
29	22X31A0529	53		63	22X31A0563	47
30	22X31A0530	52		64	22X31A0564	43
31	22X31A0531	53		65	22X31A0565	42
32	22X31A0532					
33	22X31A0533	54				
34	22X31A0534	47				
Class A	Average mark		47		Attainment Level	% students
Numbe	er of students perfo	ormed above the target	38		1	40%
Numbe	er of successful stu	dents	63		2	50%
Percen	ntage of students so	cored more than target	60%		3	60%
Atta	inment level		3			

SRI IN	IDU INST	TITUTE OF EN	IGINEEI	RING AND TEC	HNOLOGY
STATUTE ENGINEERING	Departme	nt of Humanities	and Scier	nces	
CALLAN COMPANY		Course Ou	itcome A	<u>ttainment</u>	
TORAL TIME KTINN					
Name of the faculty	P SRINIV	ASA CHARY		Academic Year:	2022 - 23
Branch & Section:	CSE-A			Year / Semester:	I/II
Lab Course Name:	APPLIED I	PHYSICS			
Course Outcomes	1 st Inter nal Exam	2nd Internal Exam	Inter nal Exam	University Exam	Attainment Level
CO1	3.00		3.00	3.00	3.00
CO2	3.00		3.00	3.00	3.00
CO3	3.00		3.00	3.00	3.00
CO4		3.00	3.00	3.00	3.00
CO5		3.00	3.00	3.00	3.00
CO6		3.00	3.00	3.00	3.00
Inter	nal & Unive	ersity Attainment:	3.00	3.00	
		Weightage	70%	30%	
CO Attainment for the	course (Int	ernal, University)	2.10	0.90	
CO Attainment for	Direct Method)		3.00		
Overall course a	ttainmen	t level			3.00

	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY														
Stuff of ENGINEERIA	Department of Humanities and Sciences														
ALVAN ALVAN	CHNOLOG		Ī		am Out										
BRAHIMPATNAN	>														
Name o	f Facu	lty:	P SRI	NIVAS	A CHA	RY		Acad	emic Y	Year:	2022	- 23			
Branch &	& Sect	ion:	CSE-A	A				Year	/ Sem	ester:	I/II				
Course I	Name	:	APPL	IED PH	IYSICS										
CO-PO r	nappi T	ng													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	2										1			
CO2	3	2										1			
соз	3	2										1			
CO4	3	2										1			
CO5	3	2										1			
CO6	3	2										1			
Course	3.00	2.00										1.00			
со															
							3.0	0							
CO1															
CO1							3.0	0							
CO2							5.0	0							
							3.0	0							
602							5.0	0							
CO3							2.0	0							
CO4							3.0	0							
							3.0	0							
CO5							2.0	0							
							3.0	0							
CO6							5.0	0							
Overall	cour	se at	tainm	ent l	evel		1		3	3.00			1		
PO-ATT/	1														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
со															
Attainm		2.00										4 00			
ent	13.00	2.00	I									1.00			
CO contr	ibutior	n to PC) - 33%	, 67%,	100% (L	evel 1,	/2/3)								