



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

DEPARTMENT OF

HUMANITIES & BASIC SCIENCES

COURSE FILE

Branch: AIDS

Class: B.Tech- I Year-I sem

Subject: APPLIED PHYSICS LAB

Code: R22APH1127

Academic Year: 2022-2023

Regulation: R22

Core/Elective/H&S: H&S

Credits: 1.5

Prepared By

Name: Dr.Anand & S.Ramu

Assistant Professor.

Verified By:

Head of the Department:

Name: K Ashok Babu



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

INSTITUTION VISION

To be a premier Institution in Engineering & Technology and Management with competency, values and social consciousness.

INSTITUTION MISSION

- IM₁** Provide high quality academic programs, training activities and research facilities.
- IM₂** Promote continuous Industry-Institute interaction for employability, Entrepreneurship, leadership and research aptitude among stakeholders.
- IM₃** Contribute to the economical and technological development of the region, state and nation.

PRINCIPAL



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R. Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

DEPARTMENT VISION

To be a technologically adaptive centre for computing by
grooming the students as top notch professionals.

DEPARTMENT MISSION

The Department has following Missions:

DM1: To offer quality education in computing.

**DM2: To provide an environment that enables overall
development of all the stakeholders.**

DM3: To impart training on emerging technologies

**DM4: To encourage participation of stakeholders in
Research and Development..**

Head of the Department



PROGRAM OUTCOMES (POs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

PO	Description
PO 1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO 2	Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO 3	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.
PO 4	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.
PO 5	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.
PO 6	The engineer and 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.
PO 7	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.
PO 8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
PO 9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10	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, and give and receive clear instructions.
PO 11	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.
PO 12	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
Program Specific Outcomes	
PSO 1	Basic Electronic and communications knowledge: Apply basic knowledge related to electronic circuits, VLSI, communication systems, signal processing and embedded systems to solve engineering/societal problems.
PSO 2	Design Methods: Design, verify and authenticate electronic functional elements for different applications, with skills to interpret and communicate results.
PSO 3	Experimentation & Communications: Engineering and management concepts are used to analyze specifications and prototype electronic experiments/projects either independently or in teams.



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Head of the Department

Program Educational Objectives (PEOs)

Program: B. Tech – Electronics & Communication Engineering

- PEO 1: Higher Degrees & Professional Employment:** Graduates with ability to pursue career in core industries or higher studies in reputed institution.
- PEO 2: Domain Knowledge:** Graduates with ability to apply professional knowledge/skills to design and develop product or process.
- PEO 3: Engineering Career:** Graduates with excellence in Electronics and Communication Engineering along with effective inter-personnel skills.
- PEO 4: Lifelong Learning:** Graduates equipped with skills in AI/ML technologies and be adaptive to attain professional competence through life-long learning.

Head of the Department



BR22 – B.TECH. –ARTIFICIAL INTELLIGENCE & DATA SCIENCE

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution under UGC, New Delhi)

B.Tech. - I Year – I Semester

L T P C
0 0 3 1.5

(R22APH1127) APPLIED PHYSICS LABORATORY

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 Photoelectric effect and identify the material whether it is n-type or p-type by Hall experiment.

2. Appreciate quantum physics in semiconductor devices and optoelectronics.
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 by the method of least squares.
6. Understanding the characteristics of laser and signal transmission in optical fiber.

LIST OF EXPERIMENTS:

1. Determination of work function and Planck's constant using photoelectric effect.
2. Determination of Hall coefficient 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 (Demonstration).
9. Study B-H curve of a magnetic material.
10. Determination of dielectric constant of a given material (Demonstration).
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.



B.Tech. - I Year - I semester

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

Course outcomes (COs):

At the end of the course the student will be able to:

Course Outcomes	Statements
C117.1	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. (L3-Applying)
C117.2	Appreciate quantum physics in semiconductor devices and optoelectronics. (L3-Applying)
C117.3	Gain the knowledge of applications of dielectric constant. (L3-Applying)
C117.4	Understand the variation of magnetic field and behavior of hysteresis curve. (L4-Analyzing)
C117.5	Carried out data analysis by the method of least squares. (L4-Analyzing)
C117.6	Understanding the characteristics of laser and signal transmission in optical fiber. (L4-Analyzing)

Course Articulation Matrix:

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C117.1	2	1	1	1	2	1	1	-	-	-	-	1	2	-	-
C117.2	3	1	2	1	3	1	1	-	-	2	-	2	3	1	-
C117.3	3	-	-	1	2	-	-	-	-	-	-	1	1	-	-
C117.4	3	1	1	1	2	1	-	-	-	-	-	1	2	1	-
C117.5	3	2	-	1	2	-	-	-	-	-	-	-	-	-	-
C117.6	2	1	1	1	1	1	1	-	-	-	-	1	1	1	-
C117	2.7	1	0.8	1	2	0.7	0.5	-	-	1	-	1	1.5	0.5	-



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

ACADEMIC CALENDAR 2022-2023



SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution under UGC, New Delhi)
Recognized under 2(f) and 12(B) of UGC Act 1956
NBA Accredited, Approved by AICTE and Permanently affiliated to JNTUH
Sheriguda (V), Ibrahimpatnam, R.R.Dist, Hyderabad - 501 510

D4

BR-22

Lr.No.SICET/AUTO/DAE/BR-22/Academic Cal./655/2022

Date: 27.10.2022

I B.TECH. ACADEMIC CALENDAR
ACADEMIC YEAR : 2022-2023

Dr.G. SURESH,
Principal,

To,
All the HODs
Sir,

Sub: SICET (Autonomous) - Academic & Evaluation - Academic Calendar for I B.Tech - I & II Semester for the academic year 2022-23 – Reg.

The approved Academic Calendar for I B.Tech – I & II Semester for the academic year 2022-23 is given below:

I SEMESTER

S.NO.	EVENT	PERIOD	DURATION
1.	Induction & Orientation Programme	03.11.2022	
2.	1 st Spell of Instructions for covering First Two and a half Units	03.11.2022 – 28.12.2022	8 Weeks
3.	I Mid Examinations	29.12.2022 – 04.01.2023	1 Week
4.	Submission of I Mid Term Examination Marks to the Autonomous Section on or before	10.01.2023	
5.	2 nd Spell of Instructions for covering Remaining Two and a half Units	05.01.2023 – 02.03.2023	8 Weeks
6.	II Mid Examinations	03.03.2023 – 09.03.2023	1 Week
7.	Preparation & Practical Examinations and Remedial Mid Test (RMT)	10.03.2023 – 16.03.2023	1 Week
8.	Submission of II Mid Term Examination Marks to the Autonomous Section on or before	16.03.2023	
9.	I Semester End Examinations	17.03.2023 – 01.04.2023	2 Weeks
Commencement of Class-Work for I B.Tech - II Semester 03.04.2023			

II SEMESTER

S.NO.	EVENT	PERIOD	DURATION
1.	Commencement of II Sem Class Work	03.04.2023	
2.	1st Spell of Instructions for covering First Two and a half Units (Including Summer Vacation)	03.04.2023 – 10.06.2023	10 Weeks
	Summer Vacation	15.05.2023 – 27.05.2023	2 Weeks
3.	I Mid Examinations	12.06.2023 – 17.06.2023	1 Week
4.	Submission of I Mid Term Examination Marks to the Autonomous Section on or before	23.06.2023	
5.	2nd Spell of Instructions for covering Remaining Two and a half Units	19.06.2023 – 12.08.2023	8 Weeks
6.	II Mid Examinations	14.08.2023 – 19.08.2023	1 Week
7.	Preparation & Practical Examinations and Remedial Mid Test (RMT)	21.08.2023 – 26.08.2023	1 Week
8.	Submission of II Mid Term Examination Marks to the Autonomous Section on or before	26.08.2023	
9.	II Semester End Examinations	28.08.2023 – 09.09.2023	2 Weeks
Commencement of Class Work for II B.Tech – I Semester - 11.09.2023			

[Signature]
ACE

[Signature]
CE

[Signature]
DEAN

[Signature]
PRINCIPAL

Copy to all the Heads of the Depts. and AO.

CONTROLLER OF EXAMINATIONS

Sri Indu College of Engineering & Technology
(An Autonomous Institution under JNTUH)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.

DIRECTOR
(Academic Audit)

Sri Indu College of Engineering & Technology
(An Autonomous Institution under JNTUH)
Sheriguda, IBP, R.R. Dist-501510.

PRINCIPAL

Sri Indu College of Engineering & Technology
(An Autonomous Institution Under JNTUH)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Academic year: 2022-2023

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

TIME TABLE

Course: B.Tech. - I Year – I Semester

Branch/Section: AIDS-A



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist
Department of Humanities & Sciences

I B.Tech I Semester AI&DS- A - TIME TABLE 2022-23

ROOM NO: F-103

w.e.f: 10-11-2022

Time/Day	9:40am-10:30am I	10:30-11:20am II	11:20-12:10pm III	L U N C H	12:40-01:45pm IV	1:45-2:50pm V	2:50-4:00pm VI	
MON	M&C	ESE	AP		←	EWS		→
TUE	PPS	AP	COUNS		EWS	AP	ESE	
WED	← AP LAB →				M&C	AP	PPS	
THU	← ELCS LAB →				M&C	PPS	ESE	
FRI	← PPS LAB →				M&C	PPS	AP	
SAT	M&C	PPS	ESE		← Elements of CSE →			

COURSE CODE	COURSE NAME	FACULTY NAME
M&C	Matrices And Calculus	S Praveen Kumar
AP	Applied Physics	S Ramu
PPS	Programming for Problem Solving	
EWS	Engineering Workshop	Md Ghouse
ESE	English for Skill Enhancement	K Sai Kumar
Elements of CSE	Elements of Computer Science & Engineering	Dr.Adeline Johnsana.J.S
AP LAB	Applied Physics Laboratory	S Ramu
PPS LAB	Programming for Problem Solving Laboratory	
ELCS LAB	English Language and Communication Skills Laboratory	K Sai Kumar
COUNS	Counseling	
CLASS COORDINATOR: S Praveen Kumar		TIME TABLE INCHARGE: S Ramu

Head of the Department

Principal



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester

Branch/Section: AIDS-B



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist
Department of Humanities & Sciences

I B.Tech I Semester AI&DS- B - TIME TABLE 2022-23

ROOM NO: F-104

w.e.f: 10-11-2022

Time/Day	9:40am-10:30am I	10:30-11:20am II	11:20-12:10pm III	L U N C H	12:40-01:45pm IV	1:45-2:50pm V	2:50-4:00pm VI
MON	←	PPS LAB	→		AP	PPS	M&C
TUE	ESE	M&C	PPS		←	AP LAB	→
WED	PPS	ESE	M&C		←	Elements of CSE	→
THU	AP	ESE	M&C		←	ELCS LAB	→
FRI	←	EWS	→		PPS	AP	COUNS
SAT	ESE	AP	AP		M&C	PPS	EWS

COURSE CODE	COURSE NAME	FACULTY NAME
M&C	Matrices And Calculus	S Praveen Kumar
AP	Applied Physics	Dr P Anand
PPS	Programming for Problem Solving	
EWS	Engineering Workshop	Md Ghouse
ESE	English for Skill Enhancement	JD Beulah
Elements of CSE	Elements of Computer Science & Engineering	Dr.Adeline Johnsana.J.S
AP LAB	Applied Physics Laboratory	Dr P Anand
PPS LAB	Programming for Problem Solving Laboratory	
ELCS LAB	English Language and Communication Skills Laboratory	JD Beulah
COUNS	Counseling	
CLASS COORDINATOR: S Praveen Kumar		TIME TABLE INCHARGE: S Ramu

Head of the Department

Principal

TIME	09:40am To 10:30am	10:30am To 11:20pm	11:20am To 12:10pm	L U N C H	12:40pm To 1:45pm	1:45pm To 2:50pm	2:50pm To 4:00pm	
DAY	1	2	3		4	5	6	
MON								
TUE	← CE & AIDS-B →				← AI&DS-B →			
WED	← AI&DS-A →				← AI&ML-A →			
THU					← ME & AIDS-A →			
FRI	← IOT →							
SAT	← AI&ML-B →							

Faculty signature



Academic year: 2022-2023

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

Lab External Exam Questions:

Exp No	Questions	CO	BT LEVEL
1	Determination of work function and Planck's constant using photoelectric effect.	CO1	L3
2	Determination of Hall co-efficient and carrier concentration of a given semiconductor.	CO1	L3
3	Characteristics of series and parallel LCR circuits.	CO2	L5
4	V-I characteristics of a p-n junction diode and Zener diode	CO3	L3
5	Input and output characteristics of BJT (CE, CB & CC configurations)	CO4	L5
6	a) V-I and L-I characteristics of light emitting diode (LED) b) V-I Characteristics of solar cell	CO4	L5
7	Determination of Energy gap of a semiconductor.	CO6	L5
8	Determination of the resistivity of semiconductor by two probe method (Demonstration).	CO5	L5
9	Study B-H curve of a magnetic material.	CO1	L3
10	Determination of dielectric constant of a given material (Demonstration).	CO1	L5
11	a) Determination of the beam divergence of the given LASER beam b) Determination of Acceptance Angle and Numerical Aperture of an optical fiber.	CO2	L5
12	Understanding the method of least squares – Torsional pendulum as an example.	CO6	L5



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

LIST OF EXPERIMENTS CYCLE WISE CHART

S.No	No. of Cycle	Name of the Experiment
1.	I	Determination of work function and Planck's constant using photoelectric effect.
2		a) V-I and L-I characteristics of light emitting diode (LED) b) V-I Characteristics of solar cell
3		a) V-I characteristics of a p-n junction diode b) V-I characteristics of a Zener diode
4	II	Understanding the method of least squares – Torsional pendulum as an example.
5		Determination of Hall co-efficient and carrier concentration of a given semiconductor.
6		Characteristics of series and parallel LCR circuits.
7	III	a) Determination of the beam divergence of the given LASER beam b) Determination of Acceptance Angle and Numerical Aperture of an optical fiber.
8		Study B-H curve of a magnetic material.
9		Input and output characteristics of BJT
10	IV	Determination of Energy gap of a semiconductor.
11		Determination of dielectric constant of a given material
12		Determination of the resistivity of semiconductor by two probe method



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R. Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

Lab Experiments setup Cycle chart

Week batch	week-1	week-2	week-3	week-4	week-5	week-6	week-7	week-8	week-9	week-10	week-11	week-12
Batch-1	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6	Ex-7	Ex-8	Ex-9	Ex-10	Ex-11	Ex-12
Batch-2	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6	Ex-7	Ex-8	Ex-9	Ex-10	Ex-11
Batch-3	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6	Ex-7	Ex-8	Ex-9	Ex-10
Batch-4	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6	Ex-7	Ex-8	Ex-9
Batch-5	Ex-9	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6	Ex-7	Ex-8
Batch-6	Ex-8	Ex-9	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6	Ex-7
Batch-7	Ex-7	Ex-8	Ex-9	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5	Ex-6
Batch-8	Ex-6	Ex-7	Ex-8	Ex-9	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4	Ex-5
Batch-9	Ex-5	Ex-6	Ex-7	Ex-8	Ex-9	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3	Ex-4
Batch-10	Ex-4	Ex-5	Ex-6	Ex-7	Ex-8	Ex-9	Ex-10	Ex-11	Ex-12	Ex-1	Ex-2	Ex-3

Faculty in charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

Students Batches for Lab Experiments setup Cycle chart

AIDS-A Section-Batch-A1			
BATCHES	Hall Ticket No	Name of the Candidate	REMARKS
Batch-1	22D41A7201	AELURI SAI ASHRITH	
	22D41A7202	AINENI KARTHIK	
	22D41A7203	AREDLA POOJITHA	
Batch-2	22D41A7204	BADAVATH VEERANNA	
	22D41A7205	BADETI SAI	
	22D41A7206	BALAPURI VAMSHI	
Batch-3	22D41A7207	BANDARI SHIVA KUMAR	
	22D41A7208	BATHULA MADHUNIKA	
	22D41A7209	BIKUMALLA INDHUJA	
Batch-4	22D41A7210	BM EXCEL BLAZE	
	22D41A7211	BODLA SRUTHIK	
	22D41A7212	BOMMIREDDY SANDHYA REDDY	
Batch-5	22D41A7213	BONAGIRI SAI SETHU	
	22D41A7214	BONDADA PRASAD	
	22D41A7215	BUSHIPAKA SHIVA RAMA RAJU	
Batch-6	22D41A7216	CHATTU MADHU	
	22D41A7217	CHICKLI RAHEEM BASHA	
	22D41A7218	CHIKONDRA SAIKIRAN	
Batch-7	22D41A7219	CHINNA DASARI RAGHAVENDER	
	22D41A7220	CHIRRA JAYAVARDHAN	
	22D41A7221	CHITHALURI VINAY KUMAR	
Batch-8	22D41A7222	CHITUMALLA ANUDEEP	
	22D41A7223	DENDI SATHWIK REDDY	
	22D41A7224	DEVANA ARUN	
Batch - 9	22D41A7225	DOMA VAISHNAVI	
	22D41A7226	DOTI POOJA	
	22D41A7227	EKBOTE PRANOOSHA	
	22D41A7228	GADDAM ARCHANA	
Batch 10	22D41A7229	GADDIKOPULA ROHITH	
	22D41A7230	GADUDHULA DEEPIKA	
	22D41A7231	GANGADHARA VIVEK KUMAR	
	22D41A7232	GARLAPATI MANITEJA	
	22D41A7233	GATTUPALLI SAI TANMAYEE	



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R. Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

AIDS-A Section-Batch-A2			
BATCHES	HT No.	Name of the Candidate	REMARKS
Batch-1	22D41A7234	GOGULA ANJIBABU	
	22D41A7235	GUDAVARTHI SUSHEEL	
	22D41A7236	GUDIPATI NIKITHA	
Batch-2	22D41A7237	GUMMADAPU SAI DHRUVA KUMAR	
	22D41A7238	GUNDE MAHESHWARI	
	22D41A7239	GUNDU BHAVANI	
Batch-3	22D41A7240	GUNTI ANISH KUMAR	
	22D41A7241	GURRAM PRADEEP	
	22D41A7242	GURRAM SREEJA TANMAI	
Batch-4	22D41A7243	GUTHA SHRAVAN KUMAR REDDY	
	22D41A7244	GUTTULA YASHWANTH KUMAR	
	22D41A7245	JAJEEMOGALA SRINIVAS	
Batch-5	22D41A7246	JALA THIRUMAL	
	22D41A7247	JINUKUNTLA AKHIL KUMAR	
	22D41A7248	JUMBARTHI HEMANTH	
Batch-6	22D41A7249	KALAGARA MOKSHA	
	22D41A7250	KALAGONI VAISHNAVI	
	22D41A7251	KANDGOLE SADASHIV	
Batch-7	22D41A7252	KARRE SHIVA PRIYA	
	22D41A7253	KASARLA SAKSHITH	
	22D41A7254	KATHE NEELAVARDHAN	
Batch-8	22D41A7255	KATTA KARUNAKAR EPHRAIM NOAH KEVIN	
	22D41A7256	KAVETI KUNDAVI	
	22D41A7257	KESHINI ROSHINI	
Batch-9	22D41A7258	KOLA RAKESH	
	22D41A7259	KOLUKULAPALLI PRIYANKA	
	22D41A7260	KOTAVENUKA TEJASWINI	
	22D41A7261	KOTHA RISHIKA	
Batch-10	22D41A7262	KOVVURI YASHWANTH	
	22D41A7263	KUKKALA DILEEP KUMAR	
	22D41A7264	MACHARLA AMRUTHA VARSHINI	



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R. Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

AIDS-B Section-Batch-B1			
BATCHES	HT No.	Name of the Candidate	REMARKS
Batch-1	22D41A7265	MADHINI VISHAL REDDY	
	22D41A7266	MADUGULA SUMALATHA	
	22D41A7267	MAKKALA GOPINADH	
	22D41A7268	MANAPATI LOKESH	
Batch-2	22D41A7269	MANCHI LEKHA	
	22D41A7270	MANDALA PARAMESH	
	22D41A7271	MASETTI KEERTHANA	
Batch-3	22D41A7272	MATHANGI DILEEP	
	22D41A7273	MENDE GOPI	
	22D41A7274	MERUGU VAISHNAVI	
Batch-4	22D41A7275	MODDU YASHWANTH REDDY	
	22D41A7276	MUKKERA MOHAN	
	22D41A7277	MUTHYALA VARA LAXMI	
Batch-5	22D41A7278	MUTHYAM GANESH KUMAR RAJU	
	22D41A7279	MYSORE SRIDHAR	
	22D41A7280	N MANEESHA	
Batch-6	22D41A7281	N SHIVA	
	22D41A7282	N VISHNU	
	22D41A7283	NANDYALA MANOJ KUMAR	
Batch-7	22D41A7284	NEELA SWARNA SREE	
	22D41A7285	NETHI HARINI	
	22D41A7286	NITTA MALLESH	
Batch-8	22D41A7287	NUNNAGOPULA GOPI	
	22D41A7288	ORUGANTI PRASHANTH	
	22D41A7289	PAGIDALA BHARGAV	
Batch-9	22D41A7290	PALAKURTHI GOPI	
	22D41A7291	PALLE SANJANA	
	22D41A7292	PALLE SATHVIKA	
Batch-10	22D41A7293	PARNE NIHARIKA	
	22D41A7294	PENDYALA VIVEKANANDA	
	22D41A7295	PESARIKAYALA HANVITHA	
	22D41A7296	PONNALA SHIVACHARAN	
	22D41A7297	POTHULAPALLY THARAKESH SAGAR	
	22D41A7298	POTTI VYSHNAVI	



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

22D41A7299	PUCHAKAYALA ARUN REDDY
------------	------------------------

AIDS-B Section-Batch-B2			
BATCHES	HT No.	Name of the Candidate	REMARKS
Batch-1	22D41A72A0	RATHOD MOUNIKA	
	22D41A72A1	SAI KIRAN KATTA	
	22D41A72A2	SAINI PRAVEEN KUMAR	
	22D41A72A3	SAJEED	
Batch-2	22D41A72A4	SANGIREDDY NALANDA	
	22D41A72A5	SARANGI BHAVYA	
	22D41A72A6	SHAIK HAMAD	
Batch-3	22D41A72A7	SHAIK SOHEL	
	22D41A72A8	SHAIK ZAHEER	
	22D41A72A9	SILVERU CHETAN	
Batch-4	22D41A72B0	SIRIGIRI JAHANGEER	
	22D41A72B1	SIRIKONDA RACHANA	
	22D41A72B2	SUMAN ARYA DHAULAGAR	
Batch-5	22D41A72B3	THALLAPALLI SAI THARUN	
	22D41A72B4	THATIPAMULA AKSHAYA	
	22D41A72B5	THATIPARTHI VENKATA PRATHAP REDDY	
Batch-6	22D41A72B6	THIRAMDAS AKHILA	
	22D41A72B7	THOTA HARI PRANEETH	
	22D41A72B8	TOOKALA SANJANA AKSHITHA	
Batch-7	22D41A72B9	UMANG AGARWAL	
	22D41A72C0	VANGALA RAVI VARMA	
	22D41A72C1	VARKALA NAGENDAR REDDY	
Batch-8	22D41A72C2	VISLAVATH PRAVEEN NAYAK	
	22D41A72C3	VOOTUKURI SHASHI KUMAR	
	22D41A72C4	YADLA SHARAN DEEKSHITH REDDY	
Batch-9	22D41A72C5	YELDANDA SAMEERA REDDY	
	22D41A72C6	YEMREDDY SREEJA	
	22D41A72C7	YERRA SUNIL REDDY	



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Academic Year: 2020-21 I Semester

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

AP LAB Occupancy TIME TABLE-Lab-1

TIME/ DAY	9:40am to 10:30am	10:30 am to 11:20am	11:20am to 12:10pm	12:10pm to 12:40pm	12:40pm to 1:30pm	1:30pm to 2:20pm	2:20pm to 3:10pm	3:10pm to 4:00pm
MON				L U N C H				
TUE					AIDS-B			
WED	AIDS-A							
THUR								
FRI								
SAT								
LAB OCCUPANCY					Physical Lab in charge: S.Ramu			
				Lab-1(R&D Block)				
A Section	Faculty Incharge:			S.Ramu				
	Lab assistant:			S Pushpa Latha				
B Section	Faculty Incharge:			Dr.Anand				
	Lab assistant:			S Pushpa Latha				

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

AP LAB Occupancy TIME TABLE-Lab-2

Room No : 304 /A

TIME/ DAY	9:40am to 10:30am	10:30 am to 11:20am	11:20am to 12:10pm	12:10pm to 12:40pm	12:40pm to 1:30pm	1:30pm to 2:20pm	2:20pm to 3:10pm	3:10pm to 4:00pm
MON				L U N C H				
TUE							AIDS-B	
WED		AIDS-B						
THUR								
FRI								
SAT								

LAB OCCUPANCY		Physical Lab in charge: Dr.T.jayakumar
		Lab-2 (main block)
A Section	Faculty In charge:	Dr.anand
	Lab assistant:	M Prasanthi
B Section	Faculty In charge:	Dr.P.Meena
	Lab assistant:	M Prasanthi

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

S.No	Roll Number	1st Internal Exam	2 nd Internal Exam
	Max Marks		
1	22D41A7201	24	25
2	22D41A7202	21	24
3	22D41A7203	28	26
4	22D41A7204	0	0
5	22D41A7205	20	21
6	22D41A7206	26	20
7	22D41A7207	27	25
8	22D41A7208	28	29
9	22D41A7209	24	24
10	22D41A7210	24	26
11	22D41A7211	22	25
12	22D41A7212	24	26
13	22D41A7213	25	25
14	22D41A7214	26	25
15	22D41A7215	23	24
16	22D41A7216	23	23
17	22D41A7217	21	22
18	22D41A7218	21	26
19	22D41A7219	26	26
20	22D41A7220	24	27
21	22D41A7221	21	22
22	22D41A7222	26	25
23	22D41A7223	25	23
24	22D41A7224	24	24
25	22D41A7225	25	28
26	22D41A7226	25	24
27	22D41A7227	26	23
28	22D41A7228	28	26
29	22D41A7229	21	22
30	22D41A7230	23	24
31	22D41A7231	29	29
32	22D41A7232	30	28



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

33	22D41A7233	24	26
34	22D41A7234	23	21
35	22D41A7235	27	26
36	22D41A7236	30	30
37	22D41A7237	24	22
38	22D41A7238	27	30
39	22D41A7239	26	27
40	22D41A7240	24	27
41	22D41A7241	27	25
42	22D41A7242	24	25
43	22D41A7243	24	25
44	22D41A7244	24	29
45	22D41A7245	27	27
46	22D41A7246	22	23
47	22D41A7247	27	27
48	22D41A7248	23	26
49	22D41A7249	20	22
50	22D41A7250	28	30
51	22D41A7251	27	25
52	22D41A7252	28	26
53	22D41A7253	23	22
54	22D41A7254	21	24
55	22D41A7255	25	22
56	22D41A7256	24	25
57	22D41A7257	29	27
58	22D41A7258	28	25
59	22D41A7259	27	26
60	22D41A7260	28	26
61	22D41A7261	24	25
62	22D41A7262	24	22
63	22D41A7263	20	23
64	22D41A7264	28	27
65	22D41A7265	28	30
66	22D41A7266	21	5
67	22D41A7267	26	22
68	22D41A7268	27	26



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

69	22D41A7269	25	27
70	22D41A7270	20	19
71	22D41A7271	25	28
72	22D41A7272	19	20
73	22D41A7273	19	17
74	22D41A7274	28	28
75	22D41A7275	24	24
76	22D41A7276	21	18
77	22D41A7277	28	29
78	22D41A7278	21	18
79	22D41A7279	30	30
80	22D41A7280	27	25
81	22D41A7281	23	20
82	22D41A7282	23	17
83	22D41A7283	24	29
84	22D41A7284	25	17
85	22D41A7285	22	22
86	22D41A7286	20	19
87	22D41A7287	25	25
88	22D41A7288	21	20
89	22D41A7289	24	30
90	22D41A7290	18	18
91	22D41A7291	28	22
92	22D41A7292	23	20
93	22D41A7293	26	30
94	22D41A7294	23	22
95	22D41A7295	24	22
96	22D41A7296	27	30
97	22D41A7297	20	20
98	22D41A7298	26	23
99	22D41A7299	27	23
100	22D41A72A0	24	23
101	22D41A72A1	26	20
102	22D41A72A2	28	29
103	22D41A72A3	24	22
104	22D41A72A4	25	20



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

105	22D41A72A5	27	28
106	22D41A72A6	27	20
107	22D41A72A7	23	21
108	22D41A72A8	24	19
109	22D41A72A9	23	19
110	22D41A72B0	26	20
111	22D41A72B1	25	18
112	22D41A72B2	26	24
113	22D41A72B3	22	22
114	22D41A72B4	24	24
115	22D41A72B5	24	21
116	22D41A72B6	23	19
117	22D41A72B7	22	23
118	22D41A72B8	24	25
119	22D41A72B9	27	23
120	22D41A72C0	24	19
121	22D41A72C1	26	27
122	22D41A72C2	23	22
123	22D41A72C3	26	20
124	22D41A72C4	27	26
125	22D41A72C5	24	22
126	22D41A72C6	29	29
127	22D41A72C7	25	26



Course: B.Tech. - I Year – I Semester ()

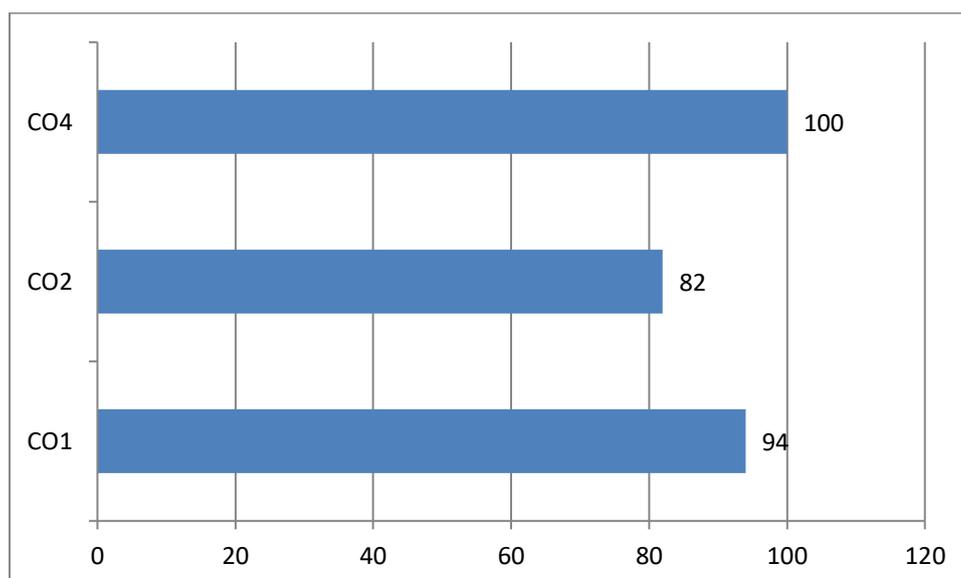
SUB Name: APPLIED PHYSICS LAB (C115)

SUB CODE: R22APH1127

LAB INTERNAL EXAMINATION - I

Exp No	Questions	CO	BT LEVEL
1	Study V-I Characteristics of PN junction Diode.	CO1	L3
2	Study the V – I Characteristics of Solar Cell.	CO1	L3
3	Plot V – I and P – I Characteristics of Light Emitting Diode.	CO2	L5
4	Determine work function of a material.	CO4	L5

CO	Percentage
CO1	94
CO2	82
CO4	100





Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

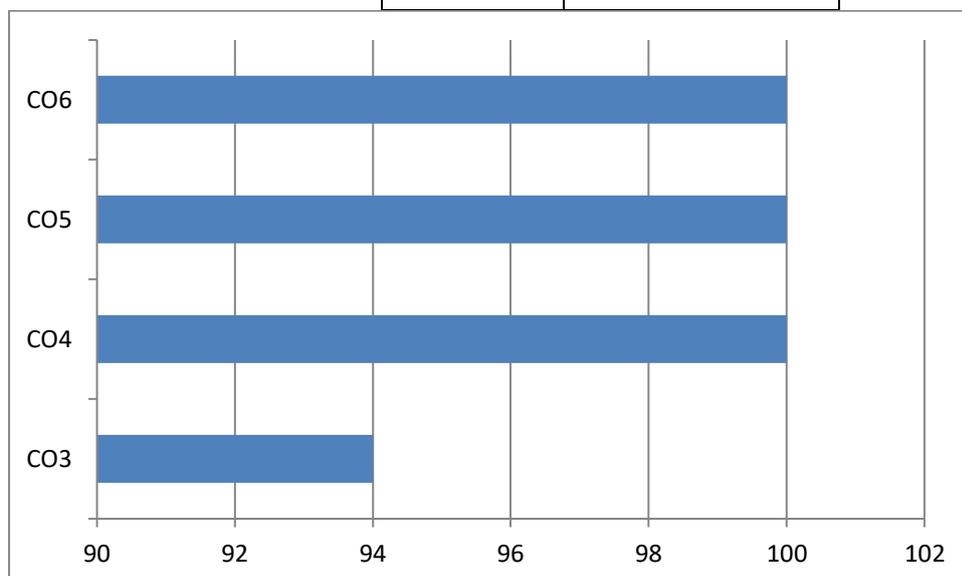
SUB Name: APPLIED PHYSICS LAB (C115)

SUB CODE: R22EAP12L1

LAB INTERNAL EXAMINATION - I

Exp No	Questions	CO	BT LEVEL
1	Determine Hall co – efficient of a given semi-conductor	CO3	L3
2	Study the characteristics of LASER Sources.	CO4	L5
3	Determine the losses in optical fiber due to micro bending.	CO6	L5
4	Study the Phenomena of Magnetic Hysteresis Loop.	CO5	L5

CO	Percentage
CO3	94
CO4	100
CO5	100
CO6	100





Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C115)

SUB CODE: R22APH1127

SEMESTER LAB END EXAMINATION

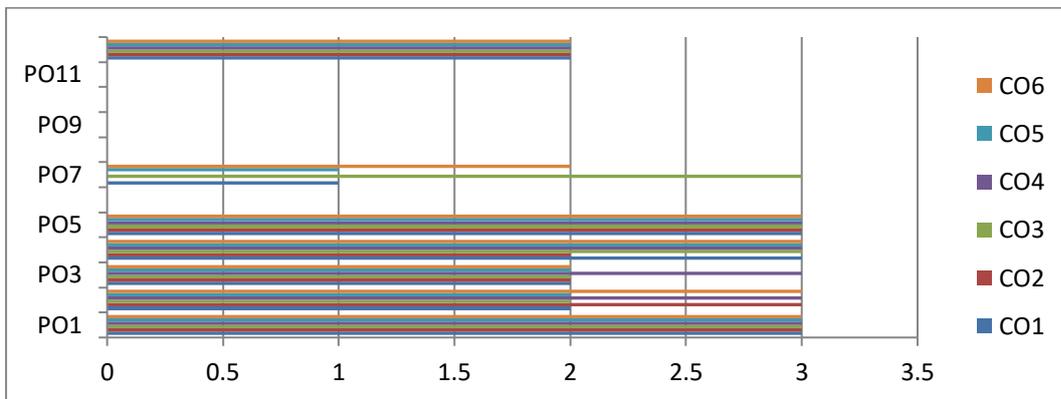
Exp No	Questions	CO	BT LEVEL
1	Study V-I Characteristics of PN junction Diode.	CO1	L3
2	Study the V – I Characteristics of Solar Cell.	CO1	L3
3	Plot V – I and P – I Characteristics of Light Emitting Diode.	CO2	L5
4	Determine Hall co – efficient of a given semi-conductor	CO3	L3
5	Determine work function of a material.	CO4	L5
6	Study the characteristics of LASER Sources.	CO4	L5
7	Determine the losses in optical fiber due to micro bending.	CO6	L5
8	Study the Phenomena of Magnetic Hysteresis Loop.	CO5	L5



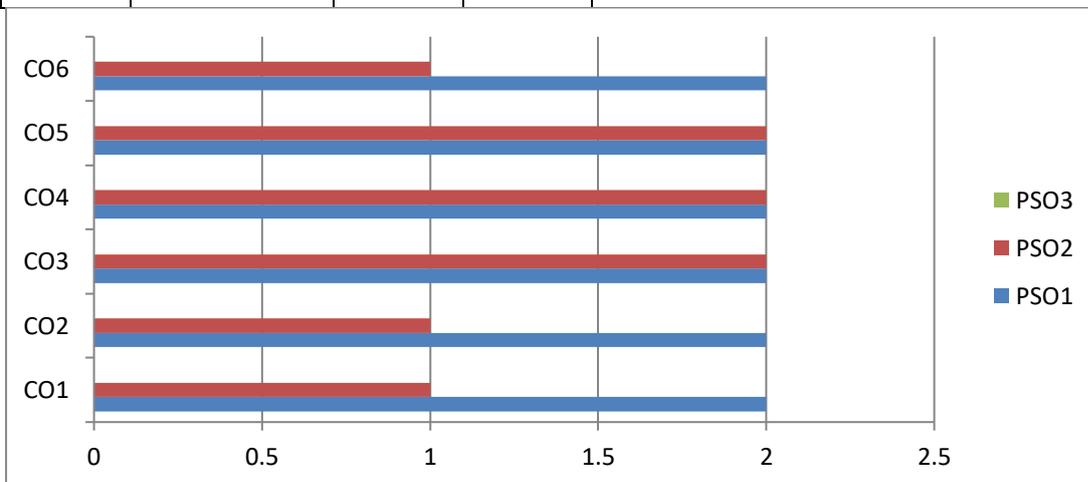
Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	3	3	-	1	-	-	-	-	2
CO2	3	3	2	2	3	-	-	-	-	-	-	2
CO3	3	2	2	3	3	-	3	-	-	-	-	2
CO4	3	3	3	3	3	-	-	-	-	-	-	2
CO5	3	2	2	3	3	-	1	-	-	-	-	2
CO6	3	3	2	3	3	-	2	-	-	-	-	2



	PSO1	PSO2	PSO3
CO1	2	1	-
CO2	2	1	-
CO3	2	2	-
CO4	2	2	-
CO5	2	2	-
CO6	2	1	-



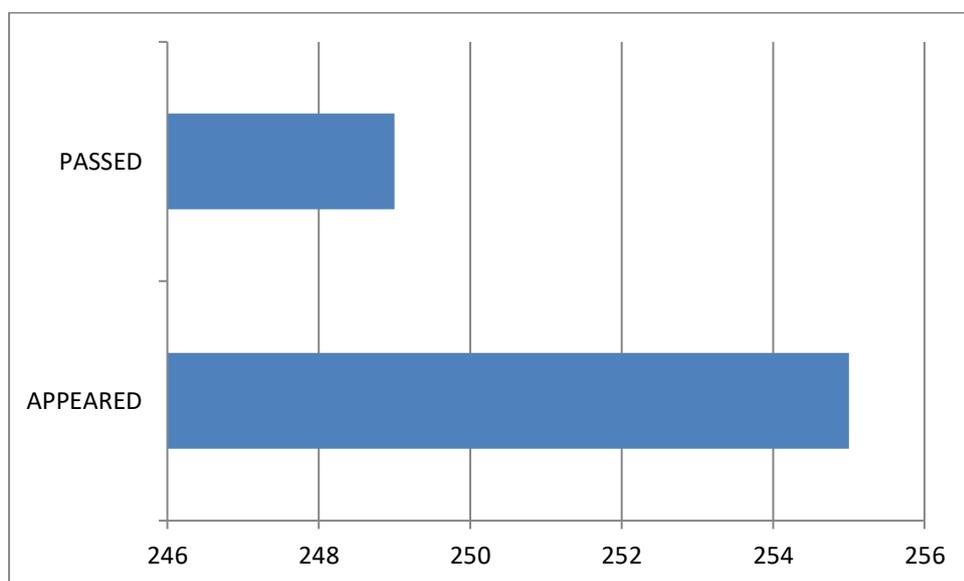


Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R. Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

CO	CIE%	MID-I	MID-II	SEE
CO1				2.4
CO2				2.4
CO3				2.4
CO4				2.4
CO5				2.4
CO6				2.4

A.Y	SUBJECT NAME	NUMBER OF STUDENTS		QUESTION PAPER SETTING		PASS%
		APPEARED	PASSED	INTERNAL	EXTERNAL	
2021-22	APPLIED PHYSICS LABORATORY			COURSE INSTRUCTOR	EXPERTS COMMITTEE	





Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

List of Major Equipment (above Rs.10, 000)

S. No.	Name of the Equipments	Quantity
1	Numerical Aperture Optical fiber Kit	6
2	LASER DIODE CHARECTRISTICS BOARD	6
3	PHOTO ELECTERIC EFFECT FULL SET	6
4	Stewart – Gee’s Experiment	6
5	Laser Diode	6
6.	Hall Effect kit	6

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

List of Equipments for the Applied Physics Laboratory

As on 1st JULY 2019

	Name	Make	Date	Quantity	Unit Cost	Total Cost in Rs.	Installed
1	HALL EFFECT APP	MIKRON	23/8/2018	6	45,500/-	82,246/-	23/8/2018
2	HALL EFFECT APP	MIKRON	6/3/2019	6	42,500/-	82,246/-	6/3/2019
3	LED CHARECTERISTICS BOARD	MIKRON	23/8/2018	6	8,800/-	34,059/-	23/8/2018
4	LASER DIODE CHARECTERISTICS BOARD	MIKRON	23/8/2018	6	11,000/-	42,574/-	23/8/2018
5	P-N JUNCTION DIODE CHARECTERISTICS BOARD	MIKRON	23/8/2018	6	3675/-	14,223/-	23/8/2018
6	PHOTO ELECTERIC EFFECT FULL SET	MIKRON	23/8/2018	6	23,500/-	45,477/-	23/8/2018
7	PHOTO ELECTERIC EFFECT FULL SET	MIKRON	6/3/2019	6	23,500/-	45,470/-	6/3/2019
8	SOLAR CELL KIT	MIKRON	23/8/2018	6	5280/-	10,217/-	23/8/2019
9	STEWART- GEES EXPERIMENT KIT	MIKRON	6/3/2017	6	12,700/-	25,400/-	6/3/2017
10	STEWART- GEES EXPERIMENT KIT	MIKRON	16/2/2018	6	7,300/-	7,300/-	16/2/18
11	RC CIRCUIT BOARDS	MIKRON	1/11/2016	6	3015/-	6030/-	1/11/2016
12.	RHEOSTART	MIKRON	1/11/2016	6	2000/-	4000/-	1/11/2016
13	WEIGHT BOX	MIKRON	1/11/2016	6	725/-	1450/-	1/11/2016
14	AMMETER	MIKRON	19/2/2015	6	525/-	1050/-	19/2/2015
15	AMMETER	MIKRON	1/11/2016	6	575/-	1150/-	1/11/2016
16	BATTERY ELEMINTORS	MIKRON	6/3/2017	6	2250/-	9000/-	6/3/2017
17	CR CIRCUIT BOARDS	MIKRON	9/10/2009	6	1950/-	7,800/-	9/10/2017
18	ENERGY BAND GAP OF SEMI CONDUCTOR BOARD	MIKRON	9/10/2009	6	2,675/-	13,375/-	9/10/2009
19	ENERGY BAND GAP OF SEMI CONDUCTOR BOARD	MIKRON	1/11/2016	6	3960/-	7920/-	1/11/2016
20	MELDE'S APP	MIKRON	9/10/2009	6	2200/-	8,800/-	9/10/2009
21	ELECTROMAGNETIC COIL	MIKRON	18/2/2013	6	1040/-	3012/-	18/2/2013



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R. Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

22	OPTICAL FIBER KIT	MIKRON	18/2/2013	6	15,000/-	30,000/-	18/2/2013
23	TORSIONAL PENDULUM	MIKRON	9/10/2009	6	1,125/-	4,500/-	9/10/2009
24	SONOMETER KIT	MIKRON	6/3/2017	6	5,555/-	11,110/-	6/3/2017
TOTAL		4,98,409/-					

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

List of Labeling /Number Code of the equipment:

SICET/H&S/APL/PN1 – 4/1	SICET/H&S/APL/PN1 -4/2
SICET/H&S/APL/PN 1-4/3	SICET/H&S/APL/PN 1- 4/4
SICET/H&S/APL/SOLAR1-4/1	SICET/H&S/APL/SOLAR1-4/2
SICET/H&S/APL/SOLAR1-4/3	SICET/H&S/APL/SOLAR1-4/4
SICET/H&S/APL/LED1-4 /1	SICET/H&S/APL/LED1-4 /2
SICET/H&S/APL/LED1-4 /3	SICET/H&S/APL/LED1-4 /4
SICET/H&S/APL/HALL1-4/1	SICET/H&S/APL/HALL1-4/2
SICET/H&S/APL/HALL1-4/3	SICET/H&S/APL/HALL1-4/4
SICET/H&S/APL/HALLEC1-4 /1	SICET/H&S/APL/HALLEC1-4 /2
SICET/H&S/APL/HALLEC1-4 /3	SICET/H&S/APL/HALLEC1-4 /4
SICET/H&S/APL/HALLCP1-4 /1	SICET/H&S/APL/HALLCP1-4 /2
SICET/H&S/APL/HALLCP1-4 /3	SICET/H&S/APL/HALLCP1-4 /4
SICET/H&S/APL/HALLDG1-4/1	SICET/H&S/APL/HALLDG1-4/2
SICET/H&S/APL/HALLDG1-4/3	SICET/H&S/APL/HALLDG1-4/4
SICET/H&S/APL/HALLSS1-4/1	SICET/H&S/APL/HALLSS1-4/1
SICET/H&S/APL/HALLSS1-4/3	SICET/H&S/APL/HALLSS1-4/4
SICET/H&S/APL/PHOTO1-4 /1	SICET/H&S/APL/PHOTO1-4 /2
SICET/H&S/APL/PHOTO1-4 /3	SICET/H&S/APL/PHOTO1-4 /4
SICET/H&S/APL/PHOTOC1-4 /1	SICET/H&S/APL/PHOTOC1-4 /3
SICET/H&S/APL/PHOTOC1-4 /2	SICET/H&S/APL/PHOTOC1-4 /4
SICET/H&S/APL/PHOTOCF1-4/1	SICET/H&S/APL/PHOTOCF1-4/2
SICET/H&S/APL/PHOTOCF1-4/3	SICET/H&S/APL/PHOTOCF1-4/4
SICET/H&S/APL/LDC1-4/1	SICET/H&S/APL/LDC1-4/2
SICET/H&S/APL/LDC1-4/3	SICET/H&S/APL/LDC1-4/4
SICET/H&S/APL/BHS1-4 /1	SICET/H&S/APL/BHS1-4 /2
SICET/H&S/APL/BHS1-4 /3	SICET/H&S/APL/BHS1-4 /4
SICET/H&S/APL/BHE1-4/1	SICET/H&S/APL/BHE1-4/2
SICET/H&S/APL/BHE1-4/3	SICET/H&S/APL/BHE1-4/4
SICET/H&S/APL/OFRX1-2/1	SICET/H&S/APL/OFRX1-2/2
SICET/H&S/APL/OFTX1-2/1	SICET/H&S/APL/OFTX1-2/2
SICET/H&S/APL/TP1-1-2/1	SICET/H&S/APL/TP1-1-2/2
SICET/H&S/APL/S.G.1-2/1	SICET/H&S/APL/S.G.1-2/2
SICET/H&S/APL/M1-1-2/1	SICET/H&S/APL/M1-2/1
SICET/H&S/APL/RC 1-2/1	SICET/H&S/APL/RC 1-2/2
SICET/H&S/APL/EG1-2/2	SICET/H&S/APL/BEG1-2/2
SICET/H&S/APL/BE 1-4/1	SICET/H&S/APL/BE 1-4/2
SICET/H&S/APLII/BE 1-4/3	SICET/H&S/APL/BE 1-4/4
SICET/H&S/APL/RS1-2/1	SICET/H&S/APL/RS1-2/2
SICET/H&S/APL/WB1-2/1	SICET/H&S/APL/WB1-2/2

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

APPLIED PHYSICS LAB

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. Check out 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 off 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 completing the experiment.
14. Replace the materials in proper place after work.
15. Be careful when handling optical items like prisms, gratings etc.

DON'Ts

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.

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

APPLIED PHYSICS LAB - 1

INVENTORY LIST:

S.No	Name of the inventory item	Quantity
1	College vision and mission board	1
2	Department vision and mission board	1
3	List of equipment's board	1
4	Scientist photos	6
5	Types of electrical switches board	1
6	Tube lights	2
7	Fans	4
8	Safety guide line board	1
9	Program educational outcomes board	1
10	Program outcomes board	1
11	Notice board	1

Lab In charge



Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Course: B.Tech. - I Year – I Semester (AIDS)

SUB Name: APPLIED PHYSICS LAB (C117)

SUB CODE: R22APH1127

APPLIED PHYSICS LAB - 2

INVENTORY LIST:

S.No	Name of the inventory item	Quantity
1	College vision and mission board	1
2	Department vision and mission board	1
3	List of equipment's board	1
4	Scientist photos	3
5	Types of electrical switches board	1
6	Tube lights	4
7	Fans	3
8	Safety guide line board	1
9	Program educational outcomes board	1
10	Program outcomes board	1
11	Notice board	1

Lab In charge