



# SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

## NAAC DOCUMENTS

### QUALITY INDICATOR FRAME WORK

#### CRITERION - 1

#### CURRICULAR ASPECTS

SUBMITTED BY

# IQAC

INTERNAL QUALITY ASSURANCE CELL

## SASURIE COLLEGE OF ENGINEERING



Criterion 1	Curricular Aspects	100
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### 1.1 Curricular Planning and Implementation (20)

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

#### Table of Contents

S.No	Description
1	Contents - Course File
2	Time table
3	Students Name List
4	Syllabus
5	Subject Information Record
6	Lesson Plan Schedule
7	Test plan for the Subject
8	Result Analysis
9	Corrective Action Report
10	Model Question paper
11	Internal Assessment test Answer Book
12	Assignment question paper
13	Assignment answer sheet



Department  
Subject code & name  
Class & batch  
Semester

Science and Humanities  
PT/3256/ Physics for Information Science  
I - AIDS -B 2021-2022  
D

CONTENTS - COURSE FILE


	PARTICULARS	REMARKS
1	Time Table	
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4	Subject Information Record	
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7	Test Plan for the Subject	
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9	Corrective Action Report	
10	Quality objective monitoring record	
11	Internal test mark sheet(Consolidated)	
12	Internal test question paper with answer key	
13	Model question paper with answer key	
14	Slip test question paper with answer key	
15	Sample Answer paper for all test(Min-3)	
16	Content beyond the syllabus	
17	Tutorial Class - schedule and content	
18	Assignment - schedule and paper	
19	PPT - handout	
20	Video - Animation - Soft copy	
21	Question bank	
22	Sample university question papers(min 5 QP-recent exam)	
23	Personal log book - Updated	
24	Lecture Note	
25	Special Class if any, Approval letter, Schedule, content covered.	

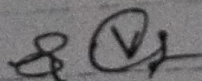
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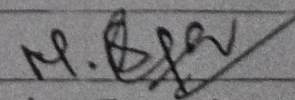
Approved By

Sign

Name

  
Dr. M. VIJAYAKUMAR ME., Ph.D., Faculty  
PRINCIPAL

  
S. VENKATESAN

  
M. SATHYA  
HOD



**CLASS TIME TABLE**

Department : Science and Humanities

Semester : II

Date : 25.03.2022

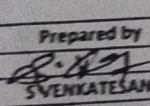
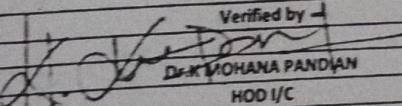
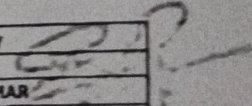
ACADEMIC YEAR : 2021-2022(EVEN)

CLASS : I AIDS

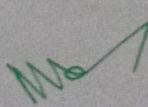
HOUR	9.08 TO 9.10 a.m.	I 9.10 TO 9.55	II 9.55 TO 10.40	10.40 TO 10.55	III 10.55 TO 11.40	IV 11.40 TO 12.25 p.m.	12.25 p.m. TO 1.10 p.m.	V 1.10 TO 1.55	VI 1.55 TO 2.40	2.40 TO 2.50	VII 2.50 TO 3.35	VIII 3.35 TO 4.20 PM			
MONDAY				Break			Lunch			Break	PHY (I AIDS ICSE)	PHY (I AIDS ICSE)			
TUESDAY		PHY (I AIDS ICSE)													
WEDNESDAY									PHY (I AIDS ICSE)						
THURSDAY			PHY (I AIDS ICSE)												
FRIDAY											PHY (I AIDS ICSE)				
SATURDAY						DAY ORDER WIL BE FOLLOWED									

S.No	Subject Code	Name of the Subject	Abbreviation	Name of the Staff & Dept.	No of hours
1	PH3256	Physics for information Sciences	PHY	Mr.S.Venkatesan	6

CLASS ADVISOR :

Prepared by	Verified by	Authorized by
 S.VENKATESAN TIME TABLE I/C	 Dr.M MOHANA PANDIAN HOD I/C	 Dr.E.NANDAKUMAR PRINCIPAL

PRINCIPAL  
**SASURIE**  
College of Engineering  
Vijayamangalam, Tirupur

  
**Dr.M.VIJAYAKUMAR** ME., Ph.D.,  
 PRINCIPAL,  
**SASURIE COLLEGE OF ENGINEERING,**  
 Vijayamangalam - 638 056, Tirupur (Dt).



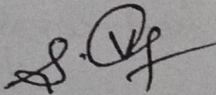
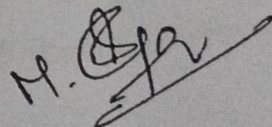
STUDENTS NAMELIST

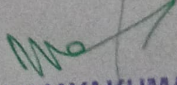
ACADEMIC YEAR : 2021-2025

DEPARTMENT : AI & DS

YEAR/SEM: I/II

S.NO	Register Number	Name of the student	DAY SCHOLAR / HOSTELER
1	732421243001	Arun.A	HOSTELER
2	732421243003	Santhoshkumar.A	DAY SCHOLAR
3	732421243004	Sivakumar.T.V	DAY SCHOLAR

	PREPARED BY	VERIFIED BY
SIGN		
NAME	S. VENKATESAN	M. SATHYA
	FACULTY	HOD

  
Dr.M.VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL  
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Vijayamangalam - 638 056, Tirupur (Dt).



ANNA UNIVERSITY, CHENNAI  
NON - AUTONOMOUS COLLEGES AFFILIATED ANNA UNIVERSITY  
REGULATIONS 2021

B. E. COMPUTER SCIENCE AND ENGINEERING

PH3256 PHYSICS FOR INFORMATION SCIENCE

UNIT I

ELECTRICAL  
PROPERTIES OF  
MATERIALS

9

Classical free electron theory - Expression for electrical conductivity - Thermal conductivity, expression - Wiedemann-Franz law - Success and failures - electrons in metals - Particle in a three dimensional box - degenerate states - Fermi-Dirac statistics - Density of energy states - Electron in periodic potential - Energy bands in solids - tight binding approximation - Electron effective mass - concept of hole.

UNIT II

SEMICONDUCTOR  
PHYSICS

9

Intrinsic Semiconductors - Energy band diagram - direct and indirect band gap semiconductors - Carrier concentration in intrinsic semiconductors - extrinsic semiconductors - Carrier concentration in N-type & P-type semiconductors - Variation of carrier concentration with temperature - variation of Fermi level with temperature and impurity concentration - Carrier transport in Semiconductor: random motion, drift, mobility and diffusion - Hall effect and devices - Ohmic contacts - Schottky diode.

UNIT III

MAGNETIC PROPERTIES  
OF MATERIALS

Magnetic dipole moment - atomic magnetic moments- magnetic permeability and susceptibility - Magnetic material classification: diamagnetism - paramagnetism - ferromagnetism - antiferromagnetism - ferrimagnetism - Ferromagnetism: origin and exchange interaction-saturation magnetization and Curie temperature - Domain Theory- M versus H behaviour - Hard and soft magnetic materials - examples and uses- Magnetic principle in computer data storage - Magnetic hard disc (GMR sensor).

UNIT IV

OPTICAL PROPERTIES  
OF MATERIALS

Classification of optical materials - carrier generation and recombination processes - Absorption emission and scattering of light in metals, insulators and semiconductors (concepts only) - photo current in a P-N diode - solar cell - LED - Organic LED - Laser diodes - Optical data storage techniques.

UNIT V NANODEVICES AND QUANTUM COMPUTING 9

Introduction - quantum confinement - quantum structures: quantum wells, wires and dots - band gap of nanomaterials. Tunneling - Single electron phenomena: Coulomb blockade - resonant-

tunneling diode - single electron transistor - quantum cellular automata - Quantum system for information processing - quantum states - classical bits - quantum bits or qubits - CNOT gate - multiple qubits - Bloch sphere - quantum gates - advantage of quantum computing over classical computing.

TOTAL :45 PERIODS

Dr.M.VIJAYAKUMAR ME., Ph.D.,  
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SASURIE  
College of Engineering  
Vijayamangalam - 633 056, Tirupur (Dt)

PRINCIPAL  
SASURIE



**LESSON PLAN**

Department : SCIENCE AND HUMANITIES  
 Course Name :  
 Subject Code & Title : PH3256/ Physics for Information Science  
 Sem : I - CS & AI&DS (2021-2025)

Date : 01.03.2022  
 Semester : II

Sl. No.	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD
	Date	Period				Date	Period	
<b>UNIT - I (ELECTRICAL PROPERTIES OF MATERIALS) (9 Periods)</b>								
1	7.8.22	4	Introduction	1	1,2	14.8.22	4	M.B.R
2	8.8.22	2,3	Classical free electron theory Expression for electrical conductivity	1	1,2	19.8.22	3	
3	13.8.22	1	Thermal conductivity, expression - Wiedemann-Franz law - Success and failures, Lorentz number	1	1,2	19.8.22	1	
4	14.8.22	5	Density of energy states	1	1,2	21.8.22	5	
5	19.8.22	6,7	Electron in periodic potential: Bloch theorem Metals and insulators - Energy bands in solids	1	1,2	21.8.22	6	
6	20.8.22	6	Tight binding approximation - Electron effective mass - concept of hole.	1	1,2	22.8.22	5	
7	21.8.22	5	Fermi- Dirac statistics, Quantum Theory, electrons in metals	1	1,2	22.8.22	6	
8	22.8.22	1,2	Particle in a one dimensional & three dimensional box	1	1,2	26.8.22	2	
9	26.8.22	5,6	Problems	1	1,2	26.8.22	6	
<b>UNIT - II (Semiconductor Physics) (9 Periods)</b>								
1	27.8.22	2	Introduction, Intrinsic Semiconductors- Energy band	1	1,2	28.8.22	2	M.B.R
2	28.8.22	4	Density of holes, intrinsic carrier concentration	1	1,2	29.8.22	4	
3	29.8.22	1,2	Carrier Transport, Hall effect	1	1,2	29.8.22	1	
4	3.9.22	4	Problems	1	1,2	9.9.22	4	
5	5.9.22	3,6	Schottky diode	1	1,2	9.9.22	6	
6	10.9.22	5	Ohmic contacts	1	1,2	12.9.22	5	
7	12.9.22	1,2	Hall devices	1	1,2	12.9.22	2	
8	16.9.22	7,8	n - Type semiconductor	1	1,2	13.9.22	3	
9	17.9.22	3	p - Type semiconductor	1	1,2	13.9.22	3	
<b>UNIT - III (Magnetic Properties of Materials) (9 Periods)</b>								
9	18.9.22	2	Introduction, Definition	1	1,2	18.9.22	2	M.B.R
10	19.9.22	1,2	Dia & Para magnetic materials	1	1,2	18.9.22	3	
11	23.9.22	6,7	Ferro magnetic materials	1	1,2	18.9.22	6	
12	24.9.22	5	Anti, Ferrites	1	1,2	19.9.22	3	
13	25.9.22	3	Domain Theory	1	1,2	19.9.22	3	
14	26.9.22	3,4	MH behaviour	1	1,2	19.9.19	4	
15	30.9.22	7,8	Hard & soft magnetic materials	1	1,2	23.9.22	7	
16	1.10.22	1	Data storage devices	1	1,2	23.9.22	7	
17	3.10.22	2,3	GMR sensor	1	1,2	30.9.22	3	

Dr. M. VIJAYAKUMAR ME, Ph.D.  
PRINCIPAL



**SUBJECT INFORMATION RECORD**

Department : S & H

Subject : physics for Information Science

Year : 2021

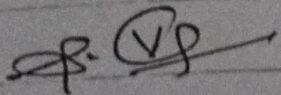
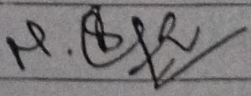
Semester : II

Last year handled by : S. Venkatesan

Percentage of Result (last year) : ~~80%~~ 100%

Quality Objectives : To produce Result more than 80% in AU Exam. It will help to students their study oriented development skills.

Reference Book : Dr. mani -  
Dharam publishtion.

	Prepared By	Approved By
Sign		
Name	S. VENKATESAN	M. SATHYA
	Faculty	HOD

Dr. M. VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL



Department : SCIENCE AND HUMANITIES  
Faculty Name :  
Subject Code & Title : PH3256/ Physics for Information Science  
Class : I - CSE & AI&DS (2021-2025)

Date : 01.03.2022  
Semester : II

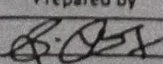
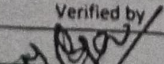
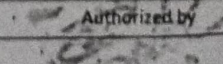
S.No.	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD
	Date	Period				Date	Period	
<b>UNIT - IV (Optical Properties of Materials) (9 Periods)</b>								
28	7.10.22	5,6	Classification of optical materials	1	1,2	30.9.22	5	
29	8.10.22	2	Carrier generation & recombination	1	1,2	3.10.22	2	
30	9.10.22	4	Absorption emission and scattering of light in metals, Insulators & Semiconductors	1	1,2	3.10.22	4	
31	10.10.22	1,2	Photo current in a P-N diode	1	1,2	9.10.22	2	
32	15.10.22	5	Solar cell	1	1,2	10.10.22	3	
33	17.10.22	3,4	LED	1	1,2	10.10.22	5	
34	21.10.22	7,8	Organic Diodes	1	1,2	10.10.22	7	
35	22.10.22	4	Laser diodes	1	1,2	10.10.22	4	
36	23.10.22	2	Optical data storage techniques	1	1,2	11.10.22	2	
<b>UNIT - V (NANO DEVICES AND QUANTUM COMPUTING) (9 Periods)</b>								
37	24.10.22	4,5	Introduction - electron density in bulk material	1	1,2	12.10.22	4	
38	29.10.22	1,6	Size dependence of Fermi energy	1	1,2	14.10.22	6	
39	31.10.22	5	Quantum Confinement, Quantum Structures	1	1,2	30.10.22	3	
40	31.10.22	3	Density of states in quantum well, quantum wire, quantum dot structures.	1	1,2	30.10.22	3	
41	4.11.22	2,6	Bandgap of nanomaterials- Tunneling	1	1,2	31.10.22	6	
42	5.11.22	4	Single electron phenomena & SET	1	1,2	4.11.22	4	
43	6.11.22	8	classical bits quantum bits or qubits CNOT gate multiple qubits	1	1,2	5.11.22	8	
44	7.11.22	2,5	Bloch sphere quantum gates	1	1,2	6.11.22	2	
45	11.11.22	7,8	advantage of quantum computing over classical computing.	1	1,2	7.11.22	7	

**REFERENCES:**

1. Jasprit Singh, "Semiconductor Devices: Basic Principles", Wiley (Indian Edition), 2007.
2. S.O. Kasap. Principles of Electronic Materials and Devices, McGraw-Hill Education (Indian Edition), 2020.
3. Parag K. Lala, Quantum Computing: A Beginner's Introduction, McGraw-Hill Education (Indian Edition), 2020.

**Teaching Aids (TA):**

1. Black Board with Chalk
2. Overhead Projector
3. LCD Projector
4. Others (Field visits, Charts, Cutset Models)

Prepared by	Verified by	Authorized by
Sign: 		
Name: S VENKATESAN	M SATHYA	DR. E. NANDAKUMAR
Faculty	HOD I/C	Principal

**Dr. M. VIJAYAKUMAR** M.E., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).

**PRINCIPAL**  
**SASURIE**  
College of Engineering  
Vijayamangalam 638 056, Tirupur (Dt)



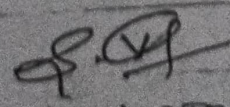
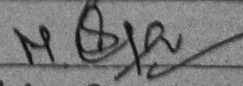
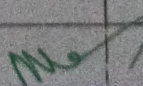
### TEST PLAN FOR SUBJECT

Subject : physics for Informatics Faculty: S. VENKATESAN  
Science

Semester : II Year: I 2021 - 2022

Department : SSH

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	Internal Exam - 2	10.5.2022	10.5.2022	—
2.	Model Exam	05.07.2022	05.07.2022	✓

Prepared By	Approved By
 <u>S. VENKATESAN</u> Faculty	 <u>M. SATHYA</u> HOD
 <u>D.F.M. VIJAYAKUMAR</u> ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 630 050, Tiruppur (Dt).	





**RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN**

Subject : physics - for Information Science Date : 10-5-2022

Class : I - AIDS Department : SBIS

Semester : - II

Exam details & date : Internal - I on 10-5-2022

Faculty : S. VENKATESH

Number of students : 3

No. of students attended : 3

No. of students absent : -

No. of students passed : -

No. of students failed : 3

Percentage of failures : 100%

**RESULT DATA:**

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	2	-	-	-

	Prepared By	Approved By
Sign:		
Name:	S. VENKATESH	M. SATHYA M
	PRINCIPAL	HOD
	SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638056, Tirupur (Dt).	



CORRECTIVE ACTION PLAN REPORT

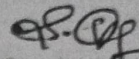
Dept: SOH Year: 2

Subject: Physics for Information Science Semester: 2

NON CONFORMANCE REPORT

Expected Result 80%, Obtained Result 0%

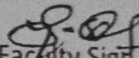
DATE: 12-5-2022

  
Faculty Sign

ROOT CAUSE ANALYSIS

Careless mistake, Poor Concentration

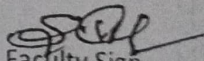
DATE: 12-5-2022

  
Faculty Sign

CORRECTIVE ACTION

Assessment was given  
Restless was controlled.

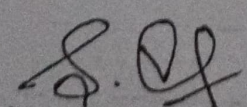
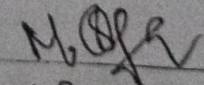
DATE: 12-5-2022

  
Faculty Sign

VERIFICATION OF CORRECTIVE ACTION

DATE: 12-5-2022

HD Sign

Sign:		Prepared By		Approved By
Name:	<u>S. VENKATESAN</u>	Faculty		
			<u>Dr. M. VIJAYAKUMAR</u> ME., Ph.D., PRINCIPAL	<u>M. Sathya</u> HOD

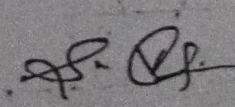
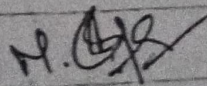



### RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : physics for Information Science Date : 12-7-2022  
 Class : 2 AIDS Department : SEW  
 Semester : 2  
 Exam details & date : Model Exam-1 05-07-2022  
 Faculty : S. VENKATESAN  
 Number of students : 3  
 No. of students attended : 3  
 No. of students absent : 1  
 No. of students passed : 1  
 No. of students failed : 3  
 Percentage of failures : 100%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	1	1	—	—

Prepared By	Approved By
	
Name <u>S. VENKATESAN</u>	Name <u>M. SATHYA</u>
Faculty <u>Dr. M. VIJAYAKUMAR ME., PH.D.,</u> PRINCIPAL	HOD
 SASURIE COLLEGE OF ENGINEERING Vijayamangalam - 638 056, Tirupur (Dt).	



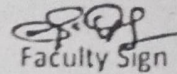
### CORRECTIVE ACTION PLAN REPORT

Dept: SEH Year: I  
Subject: physics for Information Science Semester: II

#### NON CONFORMANCE REPORT

Expected Result 80% obtained  
Result: 0%

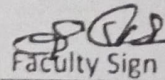
DATE: 12.7.2022

  
Faculty Sign

#### ROOT CAUSE ANALYSIS

careless mistake, poor concentration

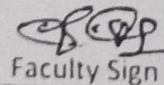
DATE: 12.7.2022

  
Faculty Sign

#### CORRECTIVE ACTION

Assignment was given.

DATE: 12.7.2022

  
Faculty Sign

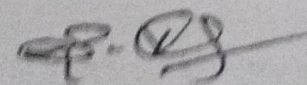
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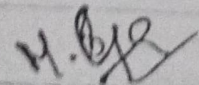
DATE: 12.7.2022

HD Sign

Prepared By

Approved By





S. VENKATESAN, VIJAYAKUMAR, PHD.,  
PRINCIPAL

M. SATHYA  
HOD



Model Examination - I		Date/Session	5.7.2022/ES	Marks	100
Course code	PH3256	Course Title	PHYSICS FOR INFORMATION SCIENCE		
Regulation	2021	Duration	3 Hours	Academic Year	2021-2022
Year	I	Semester	II	Department	CSE & AIDS

**COURSE OUTCOMES**

- O1: Gain knowledge on classical and quantum electron theories, and energy band structure.
- O2: Acquire knowledge on basics of semiconductor physics and its applications in various devices
- O3: Get knowledge on magnetic properties of materials and their applications in data storage.
- O4: Have the necessary understanding on the functioning of optical materials for optoelectronics
- O5: Understand the basics of quantum structures and their applications and basics of quantum computing

Q	Question	CO	BTS
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**PART A**

(Answer all the Questions 10 x 2 = 20 Marks)


Recall conducting materials?	CO1	R
Distinguish between metals semiconductor and insulator?	CO1	A
Why do we prefer Si for transistor and GaAs for laser diodes?	CO2	U
Mention some applications of Hall effects.	CO2	U
Define magnetic field and magnetic flux.	CO3	R
What is Curie-weiss law and Neel's temperature?	CO3	R
Infer transparent, translucent and opaque materials. Give the examples.	CO4	C
Interpret the difference between LED and LASER diode.	CO4	A
How does size affect band gap and Fermi energy in nano materials? Give reason.	CO5	R
Comment on quantum cellular automation? List type of fabrication of cellular automata.	CO5	A

**PART B**


(Answer all the Questions 5 x 16 = 80 Marks)

On the basis of free electron theory, derive an Expression for electrical conductivity of a conducting material and Hence, deduce Wiedemann-Franz law.	CO1	R
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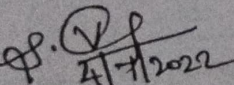
 SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).

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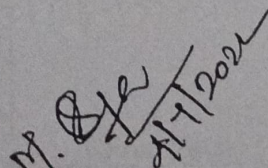
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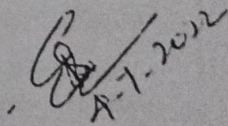
11b	(i) Explain an expression for the energy of a particle in a 3 D box. (10) (ii) Given an account on tight binding approximation. (6)	CO1	A
12a	Starting with the conductivity of charge carriers in an intrinsic semiconductor, expression for carrier concentration in an intrinsic semiconductor.	CO2	A
OR			
12b	Explain the band diagram for an ohmic contact, schottky diode and explain its principle and theory.	CO2	A
13 a	Give the classification of magnetic materials and explain their properties.	CO3	U
OR			
13b	Construct the principle of magnetic storage. Explain how GMR sensors are used in hard disc drives.	CO3	C
14a	Examine the role of energy states and band gap in the absorption emission and scattering of the light in metal, semiconductor and insulator.	CO4	A
OR			
4b	(i) Discuss the concept of solar cell and it's working. (8) (ii) Comment on the principle of laser diode explain its construction and working with suitable diagrams illustrating the same. Indicate its merits and demerits and applications. (8)	CO4	C
15a	Discuss the effects of quantum confinement in various quantum structures and derive expression for density of states for quantum well, quantum wire, and quantum dot.	CO5	A
OR			
15b	Discuss the principle and operation of SET and its salient features.	CO5	C

  
4/7/2022  
Course Faculty


S. VENKATESAN  
(Name /Sign / Date)

  
4/7/2022  
HoD

M. Sathya  
(Name /Sign / Date)

  
4-7-2022  
Principal

(Name /Sign / Date)

  
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Internal Assessment Test Answer Book

Name	T. V. Sivakumar		Year/ Semester/Section	I / II	
Register Number	132421242004	Date/Session	5.7.2022/1st	Department	AIDS
Course code	PH3256	Course Title	PHYSICS FOR INFORMATION SCIENCE		
Internal Assessment Test	IAT 1 <input type="checkbox"/>	IAT 2 <input type="checkbox"/>	IAT 3 <input type="checkbox"/>	Model	<input checked="" type="checkbox"/>
Name and Signature of the Invigilator with date	P. Sivaraj [Signature] (P. SIVARANJAN) 5/7/22				

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B/ Part C				Total Marks	
Q. No.	<input checked="" type="checkbox"/>	Marks	Q. NO.	<input checked="" type="checkbox"/>	a	<input checked="" type="checkbox"/>		b
					Marks		Marks	
1	<input checked="" type="checkbox"/>	2	11			<input checked="" type="checkbox"/>	8.6	14
2	<input checked="" type="checkbox"/>	2	12			<input checked="" type="checkbox"/>	5	05
3	<input checked="" type="checkbox"/>	1	13			<input checked="" type="checkbox"/>	12	12
4	<input checked="" type="checkbox"/>	1	14			<input checked="" type="checkbox"/>	7.7	14
5	<input checked="" type="checkbox"/>	1	15			<input checked="" type="checkbox"/>	8	8
6	<input checked="" type="checkbox"/>	1	16		-	-	-	-
7	<input checked="" type="checkbox"/>	1	Grand Total					53
8	<input checked="" type="checkbox"/>	2	bb : S. Venkatesan Name and Signature of the Examiner with date				S. Venkatesan 6/7/2022	
9	<input checked="" type="checkbox"/>	1						
10	<input checked="" type="checkbox"/>	1						
Total		13	Grand Total					

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	20	20	20	20	20		100
Marks Obtained	18	7	14	17	10		66

IQAC Audit - Remarks

Marks Verified [Signature]

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PRINCIPAL

[M. Sathya]  
Name and Signature of the IQAC member





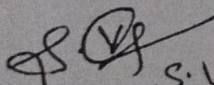
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College of Engineering  
Vijayamangalam, Tiruppur.

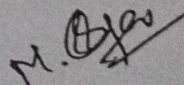
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Assignment Question Paper

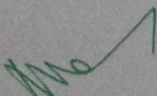
Assignment 01		Date of Issue:	20.04.2022	Marks	10
Course code	PH3256	Course Title	PHYSICS FOR INFORMATIONN SCIENCE		
Year	'1	Semester/Section	II	Date of Submission:	09.05.2022

Q.No	Questions	CO
1	Difference between intrinsic semiconductor & Extrinsic semiconductor.	CO2
2	Difference between n- type semiconductor & p- type semiconductor.	CO2
3	What is meant by semiconductor and its properties?	CO2
4	Variation of carrier concentration with temperature.	CO2
5	Difference between elemental semiconductor and compound semiconductor.	CO2

  
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Name and Signature of the Faculty Incharge

  
M. Sathya  
HoD

[M. Sathya]

  
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DEPARTMENT OF SCIENCE AND HUMANITIES

Assignment Answer Sheet

Name of the Student: T. V. SIVA KUMAR

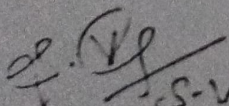
AU Register Number: 732421243004

Assignment - 01		Date of Issue:	20.04.2022	Marks	10
Course code	PH3652	Course Title	PHYSICS FOR INFORMATION SCIENCE		
Year	I	Semester/Section	II	Date of Submission:	09.05.2022

Q.No	Questions	CO
1	Difference between intrinsic semiconductor & Extrinsic semiconductor.	CO2
2	Difference between n- type semiconductor & p- type semiconductor.	CO2
3	What is meant by semiconductor and its properties?	CO2
4	Variation of carrier concentration with temperature.	CO2
5	Difference between elemental semiconductor and compound semiconductor.	CO2

Mark Allocation

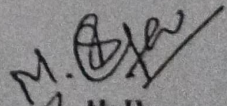
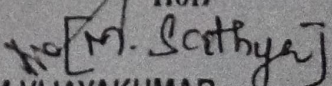
Rubrics	Marks Allocated	Marks obtained
Content Quality	6	5
Presentation Quality	2	2
Timely submission	2	2
Total marks	10	9

  
S. VENKATESH  
Name and Signature of the Faculty Incharge



  
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