



CRITERION 6 - FACILITIES AND TECHNICAL SUPPORT

6.3 Laboratories: Maintenance and overall ambiance (10)

S.No	Document Name	Available
1	Vision, mission	Yes
2	PO, PSO and PEO	Yes
3	Syllabus	Yes
4	Lab Allocation	Yes
5	Lab In charge	Yes
6	Monthly Stock Maintenance	Yes
7	Stock register, student and staff entry register	Yes
8	Stock Verification	Yes
9	Laboratory Environment and Design	Yes
10	Hardware and Software	Yes
11	UPS	Yes
12	LCD Projector	Yes
13	Table, Chairs	Yes
14	Camera	Yes



6.3 Laboratories: Maintenance and overall ambience (10)

Lab Allocation and Scheduling

- Vision, Mission, PEO's, PSO's, PO's are displayed in all the laboratories.
- Computer laboratories are allotted to students as per their academic curriculum.
- Respective faculty members prepare schedules for lab allocation based on student timetables.

Lab Maintenance

- The maintenance of the computer lab is managed by the Laboratory In-Charge, assisted by the Laboratory Assistant and System Administrators.
- System Administrators handle repairs and maintenance of all computers.
- A stock register is maintained and updated regularly.
- A student entry register is maintained for tracking usage.
- Only safe, secure, authentic, and trusted websites are accessed within the lab.
- Stock verification and inspection are conducted at the end of each academic year, along with regular inter-institute stock audits.

Ambience in the Department

- Laboratory Environment and Design
- Each laboratory is designed to provide an ideal environment for effective teaching and learning.
- All laboratories have a single entry and exit point for controlled access.
- Laboratories are equipped with sufficient hardware and licensed/open-source software to support the curriculum.
- Centralized UPS facility is available for all computer systems.
- Each laboratory is equipped with a whiteboard, computer, the Internet, and such other amenities.
- LCD projectors are provided in the laboratories for ICT
- Properly maintained working tables, chairs, and stools are provided for student comfort.
- Adequate ventilation and air circulation are ensured in all labs.
- Safety and Cleanliness
- Surveillance cameras are installed in every laboratory for safety and security.
- Windows allow for excellent air circulation, complemented by multiple ceiling fans.
- LED lighting ensures proper illumination, creating a comfortable learning environment.
- Curtains are provided on windows to control light and visibility.
- Labs are cleaned daily by housekeeping staff, ensuring a neat and tidy environment.
- Wooden foot-holder provided to rest the foot during the system operation.
- Overall, the ambience and maintenance of each laboratory are well-maintained to provide students with a productive and comfortable workspace.



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Ariyur, Puducherry-605 102.



VISION, MISSION



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION:

To achieve academic excellence in the field of computer science and engineering by imparting meticulous knowledge to the students, facilitating research and entrepreneurship, to the ever-changing industrial demands and social needs through skill enhancement.

MISSION:

M1: To Enhance analytical knowledge by fostering innovation and problem-solving skills.

M2: To Promote interdisciplinary research and entrepreneurship for solving Real-world problems.

M3: To Impart students with the ability to tackle evolving industrial challenges.

M4: To Inculcate moral and ethical values to serve society.



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PO, PSO & PEO



Figure: PO, PSO & PEO



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STOCK VERIFICATION

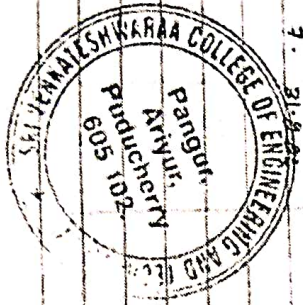
DRESSING BY STE M 103

Serial No. Date Student Name

31.3.17 161700Y DELL PC (Desktop, Keyboard, Mouse)
 25.8.22 Gokulakrishna (Mouse, Keyboard, Mouse)

1. 26.6.17 Checked
2. 20.3.18 Checked
3. 31.8.19 Checked
4. 21.3.20 Checked
5. 29.3.21 Checked
6. 31.2.22 Checked
7. 31.8.22 Checked

Model	Quantity	Lab. inc.	Signature	Receipt	Remarks
Dell Desktop / Keyboard / Mouse	36	✓	✓	✓	
	36	✓	✓	✓	VERIFIED
	36	✓	✓	✓	Confirmed
	36	✓	✓	✓	Verified
	36	✓	✓	✓	
	36	✓	✓	✓	
	36	✓	✓	✓	
	36	✓	✓	✓	



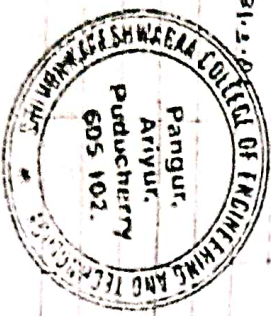
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 ENGINEERING & TECHNOLOGY
 PUTTUR, PUDUCHERRY - 605 102

[Handwritten Signature]

DBMS 1 NET

WORKING LAB

Sr	Date	Index No	Description	Mark	Roll No	Quantity	Signature	Remarks
1.	28.3.15	101/	DBMS (Desktop, Keyboard, Mouse)		36	36	W. [Signature]	
2.	28.3.17		Checked		36	36	[Signature]	Completed
3.	28.3.18		Checked		36	36	[Signature]	Forward
4.	28.3.19		Checked		36	36	[Signature]	Completed
5.	28.3.20		Checked		36	36	[Signature]	
6.	29.3.21		Checked		36	36	[Signature]	
7.	31.3.22		Checked		36	36	[Signature]	
8.	31.3.20		Checked		36	36	[Signature]	



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 PANGU, ARIVUR, PUDUCHERRY - 605 102

COMPUTER DIAGNOSTIC LAB

Sr No	Date	Sr No	Description	Mark	Issued	Quantity	Signature	Remarks	Drawn
1	22.11.15	521	Lenovo Pc (Desktop) Keyboard, Mouse.		64	64	[Signature]		
2	23.11.15		Checked.		64	64	[Signature]		
3	20.11.15		Checked.		64	64	[Signature]		
4	23.11.15		Checked.		64	64	[Signature]		
5	21.11.15		Checked.		64	64	[Signature]		
6	17.11.15		Checked.		64	64	[Signature]		
7	31.10.15		Checked.		64	64	[Signature]		



PRINCIPAL

[Handwritten Signature]

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ARIVUR, PUDUCHERRY - 605 102.



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LABORATORY ENVIRONMENT AND DESIGN



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Figure: Laboratory Environment and Design



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UPS



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Figure: UPS



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LCD PROJECTOR



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Pangur, Puducherry, India
Wp33+8ff, Pangur, Puducherry 605110, India
Lat 11.902117° Long 79.702864°
04/03/2025 11:18 AM GMT +05:30

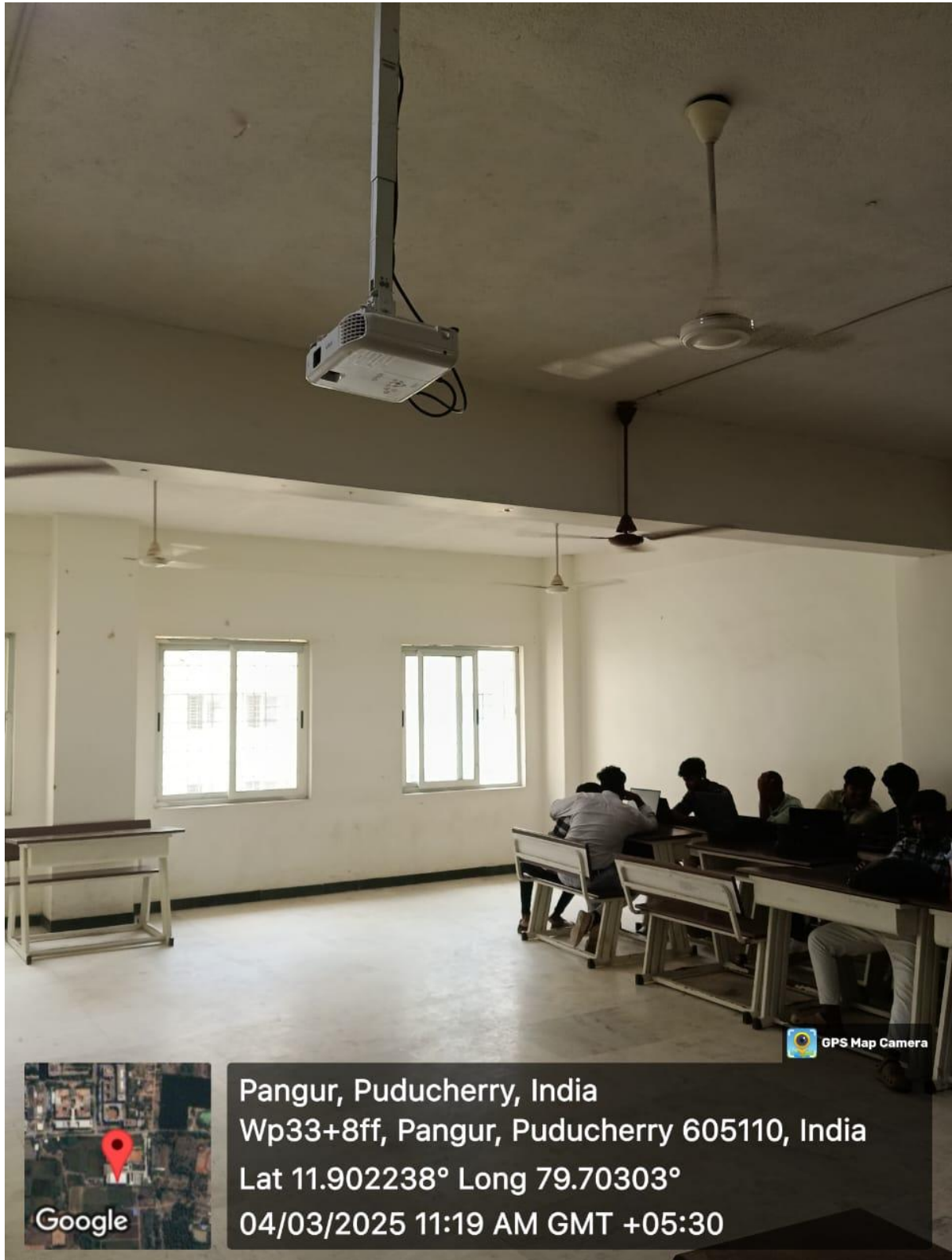
Figure: Smart TV Board



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Ariyur, Puducherry-605 102.



Pangur, Puducherry, India
Wp33+8ff, Pangur, Puducherry 605110, India
Lat 11.902238° Long 79.70303°
04/03/2025 11:19 AM GMT +05:30

Figure: LCD Projector



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TABLE, CHAIRS & CAMERA

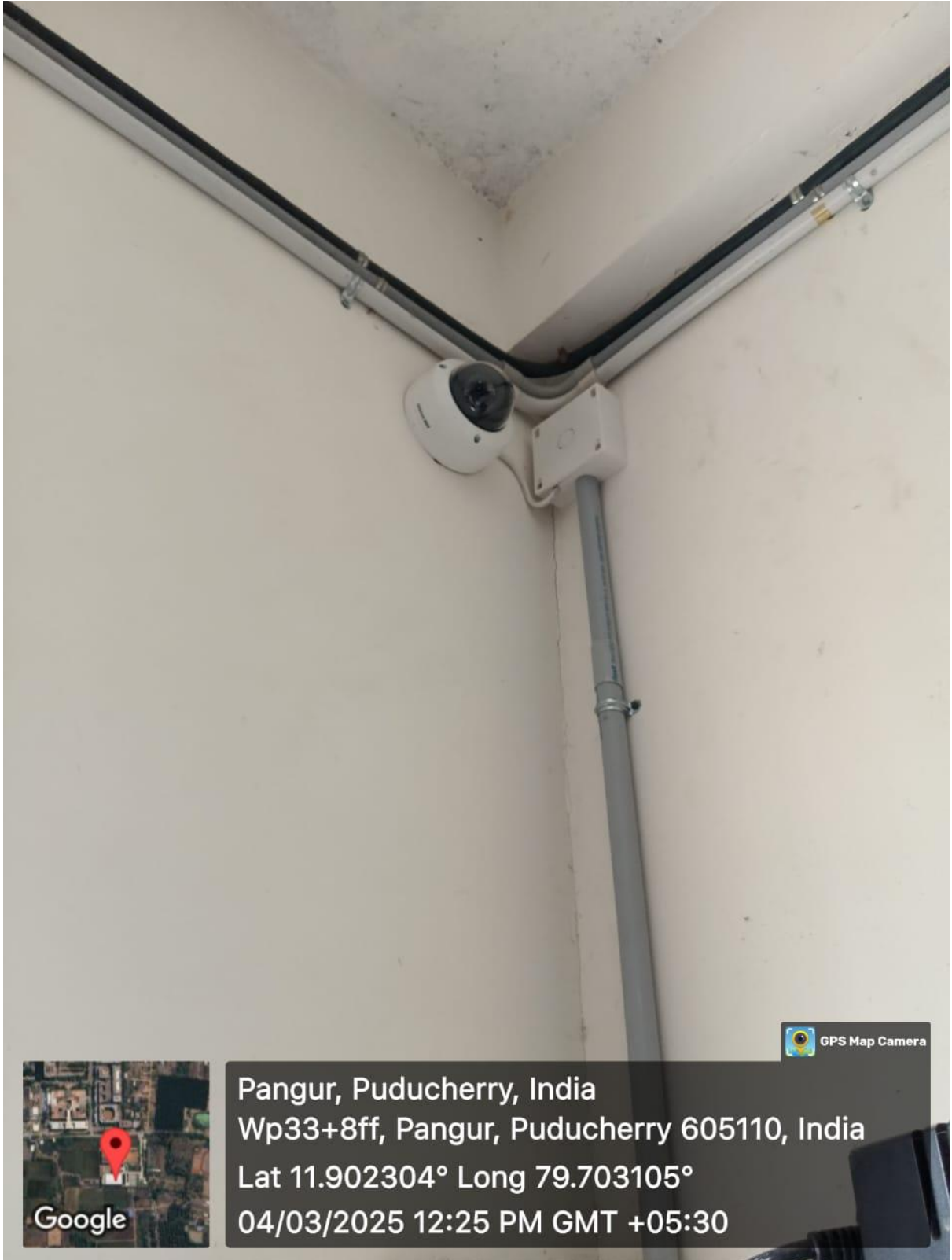


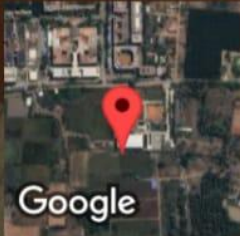
Figure: Camera



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Google



GPS Map Camera

Pangur, Puducherry, India
Wp33+8ff, Pangur, Puducherry 605110, India
Lat 11.902119° Long 79.702857°
04/03/2025 12:24 PM GMT +05:30

Figure: Tables and Chairs



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- NOTES
- All dimensions are in mm unless otherwise specified.
 - Typical dimensions are to be taken in.
 - Contractor to verify all dimensions on site.
 - Any discrepancies in the drawings to be brought to the notice of the consultant before execution.

FOR CONSTRUCTION

SCHEDULE OF OPENINGS.

NO.	TYPE	LOCATION	NO. IN	AREA
1	DOOR	DOUBLE GLASS DOOR	102	270
2	DOOR	SINGLE GLASS DOOR	84	228
3	DOOR	SINGLE GLASS DOOR	75	202
4	DOOR	W.C.	105	285
5	DOOR	W.C.	105	285
6	DOOR	W.C.	105	285
7	DOOR	W.C.	105	285
8	DOOR	W.C.	105	285
9	DOOR	W.C.	105	285
10	DOOR	W.C.	105	285

STAIRCASE DETAIL

STAIR WIDTH: 1000MM/3200MM
 TREAD: 300MM
 RISE: 150MM

CEILING FLOOR AREA: 300.17 SQ.M

REFERENCES

NO.	DATE	REVISION	BY	CHKD.
1	15.12.14	ISSUED FOR PERMIT	NA	NA
2	24.12.14	REVISED DRAWING	NA	NA
3	24.12.14	REVISED DRAWING	NA	NA
4	24.12.14	REVISED DRAWING	NA	NA
5	24.12.14	REVISED DRAWING	NA	NA

SRI VENKATESHWARA
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 SECOND FLOOR PLAN

ARCHITECTURAL WORKING DRAWING

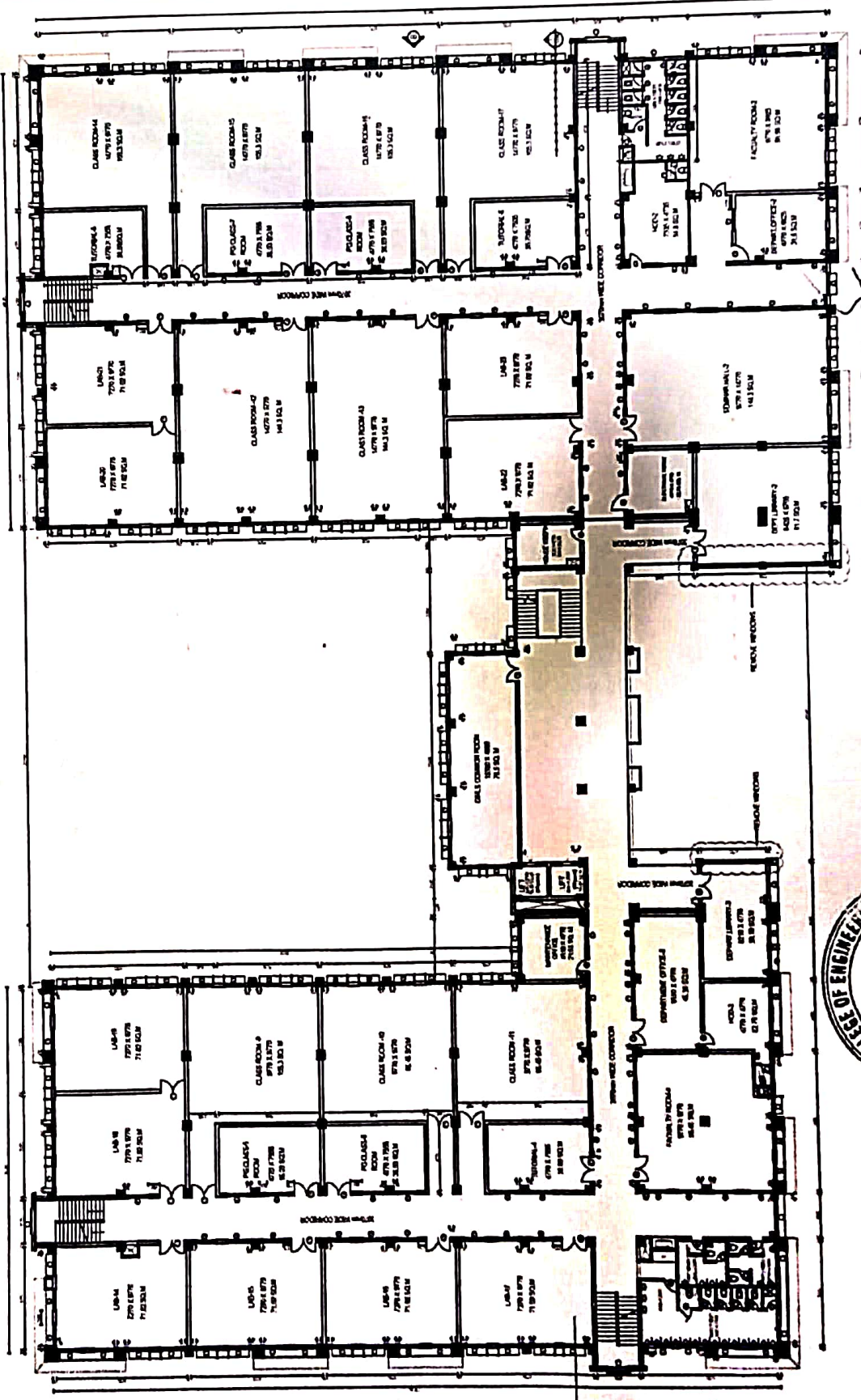
Author: M.P.
 Designer: M.P.
 Checker: M.P.
 Date: 12.08.2014

Sheet No: A1

DESIGN COLLABORATIVE

Architectural
 Planning
 Engineering
 Original Design

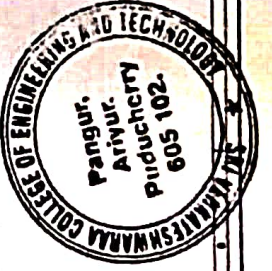
1206 -A-1 -23 R3



SECOND FLOOR PLAN

SCALE: 1:100

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LAB IN CHARGE

S. RENUGA DEVI,
W/O SUSAIMARIANATHAN. S
NO.20, GANGAIAMMAN KOVIL ST,
PANGUR, THENNAL (PO),
PONDICHERRY
Mobile: 9751112596, 8270276835.
Mail Id: Renususai2109@gmail.com

PERSONAL DETAILS:

Date of Birth: 19.06.1990
Gender: Female
Languages known: Tamil, English
Marital status: Married

EDUCATION QUALIFICATION:

COURSE	INSTITUTION/BOARD	PERCENTAGE/CLASS	YEAR OF PASSING
10 th	Govt. Higher Secondary School, Thiruvarur Dist.,	71%	2003
12 th	Govt. Higher Secondary School, Thiruvarur Dist.,	61%	2007
B.Sc., (comp)	Sengamala Thaayar Educational Trust Woman's College, Mannargudi..	79%	2011
B.Ed.,	Siga College of education, Kappiyampuliyur, Villupuram Dist.,	80% (First Class with Distinction)	2012

TECHNICAL PROFILE:

Language: C., JAVA, VB, HTML.
Packages: MS OFFICE
Operating System: DOS, WINDOWS 98, WINDOWS XP
Database: RDBMS

EXPERIENCE:

1. Hindocha Higher Secondary, School, Ariyur (2015-2016)
2. Sree Ramakrishina High School, Vadamangalam (2017-2018)

DECLARATION

I hereby declare that all above said information's are correct and true to the best of my knowledge and to my belief.

Your's truly,

Place:

Date:

(S. RENUGA DEVI)

► RISHIE COUMARE. S

No:6B, 1st cross west, Thirumudi Sethuraman nagar,
New Saram, Puducherry – 605013.
Phone: +919894352839
E-mail: rishiecoumare@gmail.com

Objectives

Professional To be a successful professional in a reputed industry in order to achieve the objectives of the industry with honesty and fairness and to continually upgrade my knowledge and skills.

Education

COURSE	INSTITUTION	BOARD/UNIVERSITY	YEAR OF PASSING	PERCENTAGE
SSLC	Sri Ramakrishna Vidyalaya Hr Sec School	Tamil Nadu State Board	2014	77.6
HSC	Sri Ramakrishna Vidyalaya Hr Sec School	Tamil Nadu State Board	2016	79.5
BSc(Computer Science)	Saradha Gangadharan College of Arts and Science	Pondicherry University	2019	56.4
M.Lib.I.Sc	Pondicherry University	Pondicherry University	2021	59.9

Experience

COMPANY NAME	JOB DESIGNATION	JOB RESPONSIBILITY	WORKING YEARS
RIDSYS Technology pvt limited	QC Engineering	Checking the quality of Product in Manual and Automation	4 Months

Skills

- ▶ MS Office
- ▶ Video and Picture Editing through Android Applications
- ▶ Librarian Software like KOHA, Libsys, Greenstone and DSpace
- ▶ Selenium Automation Testing

Internship

INSTITUTE	TRAINING FOR REQUIRED FIELD	TRAINING MONTH
Pondicherry University	Librarian	One Month
Institut Francais de Pondicherry	Librarian	Three Months

Seminars/Workshops

I attended Inter State Youth Red Cross Study Cum Training Camp in 2017 at Bhubaneshwar, Odisha.

Dissertation and Projects

Article Processing charges(APC) in Selected Hybrid Commercial Publishers.

Strength

- ✓ Team Works
- ✓ Optimistic Person
- ✓ Situation Handler

Personal Details

Father's Name : Sambanthamoorthy. S
Mother's N : Rajeswari. C
DOB : 06-03-1999
Gender : Male
Nationality : Indian

Languages Known

LANGUAGES	READ	WRITE	SPEAK
Tamil	Yes	Yes	Yes
English	Yes	Yes	Yes

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

PLACE : PUDUCHERRY
DATE :

(RISHIE COUMARE)



LAB ALLOCATION



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADMIC YEAR 2024 - 2025 (ODD SEMESTER)
CP LAB TIME TABLE

PERIOD	1	2	BREAK 10.20-10.35 am	3	4	BREAK 12.15-01.00 PM	5	6	BREAK 02.40-02.50 PM	7	8
DAY ORDER	8.45 - 9.30am	9.30 - 10.20am		10.35- 11.25am	11.25- 12.15pm		1.00- 1.50pm	1.50-2.40pm		02.50- 03.40pm	03.40- 04.30 pm
1			BREAK 10.20-10.35 am			BREAK 12.15-01.00 PM		DSA LAB(B)	BREAK 02.40-02.50 PM	DSA LAB(B)	
2								DSA LAB(A)		DSA LAB(A)	
3								PPS LAB(A)		PPS LAB(A)	
4		PPS LAB(B)			PPS LAB(B)			IT WOEKSHOP(A)		IT WOEKSHOP(A)	
5								IT WOEKSHOP(B)		IT WOEKSHOP(B)	

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO. OF PERIODS / NO. OF STUDENTS
Practical			
CSPL302	Data Structure and Algorithms Laboratory (B)	Mrs.G.RAJESWARI	3 / (43+1)
CSFL304	IT Workshop (SciLab/MATLAB) (A)	Mr.R.DHANASEKARAN	3 / (43+1)
CSPL302	Data Structure and Algorithms Laboratory (A)	Mrs.M.LAVANYA	3 / (43+1)
CSPL304	IT Workshop (SciLab/MATLAB) (B)	Mr.R.DHANASEKARAN	3 / (43+1)
CSEL204	Programming for Problem Solving Lab(A)	Mrs.G.RAJESWARI	
CSEL204	Programming for Problem Solving Lab(B)	Mrs.M.LAVANYA	

S. Vij
TIME TABLE
COORDINATOR

P. Ravi
DEAN-ACADEMICS
/HOD

K. Jayaraman
VICE PRINCIPAL

S. S. S.
PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADMIC YEAR 2024 - 2025 (ODD SEMESTER)
DBMS / OS LAB TIME TABLE

PERIOD	1	2	B R E A K 1 0 :2 0-1 0:3 5 a m	3	4	B R E A K 1 2:1 5-0 1:0 0 P M	5	6	B R E A K 0 2:4 0-0 2:5 0 P M	7	8
DAY ORDER	8.45 - 9.30am	9.30 - 10.20am		10.35- 11.25am	11.25- 12.15pm		1.00- 1.50p m	1.50-2.40pm		02.50- 03.40 pm	03.40- 04.30p m
1											
2		DBMS LAB(A)		DBMS LAB(A)			AI LAB			AI LAB	
3		DBMS LAB(B)		DBMS LAB(B)							
4							PT LAB			PT LAB	
5							PROJECT			PROJECT	

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO. OF PERIODS
Practical			
CS P53	Database Management System Laboratory (DBMS Lab)(B)	Ms.S.PAVITHRA	3 / (44)
CS P53	Database Management System Laboratory (DBMS Lab)(A)	Mrs.D.NAGAMANY ABIRAMY	3 / (44)
CS P71	Artificial Intelligence Laboratory (AI Lab)	Ms.S.VINITHA	3 / (55)
CS T73	Platform Technology (PT)	Mrs.K.ANDAL	3 / (55)
CS PW7	Project Work - Phase I	Dr.N.BALAJI	3 / (55)

S. Vijay
TIME TABLE
COORDINATOR

P. Pradeep
DEAN-ACADEMICS/HOD

K. S. Jayaraman
VICE PRINCIPAL

S. S. Sathish
PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADMIC YEAR 2024 - 2025 (ODD SEMESTER)

MBA LAB TIME TABLE

PERIOD	1	2	BREAK 10.20-10.35 am	3	4	BREAK 12.15-01.00 PM	5	6	BREAK 02.40-02.50 PM	7	8
DAY ORDER	8.45 - 9.30am	9.30 - 10.20am		10.35- 11.25am	11.25- 12.15pm		1.00- 1.50pm	1.50-2.40pm		02.50- 03.40pm	03.40- 04.30pm
1		OS LAB(A)		OS LAB(A)							
2		CN LAB(B)		CN LAB(B)							
3											
4		OS LAB(B)		OS LAB(B)							
5		CN LAB(A)		CN LAB(A)							

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO. OF PERIODS
	Practical		
CS P51	Operating Systems Laboratory (OS) (A & B)	Mrs.V.SARANYA	3 / (44)
CS P53	Computer Networks Laboratory (A)	Ms.S.PAVITHRA	3 / (44)
CS P53	Computer Networks Laboratory (B)	Mrs.L.SATHIYA	3 / (44)

TIME TABLE COORDINATOR

DEAN-ACADEMICS
/HOD

VICE PRINCIPAL

PRINCIPAL



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Ariyur, Puducherry-605 102.



HARDWARE AND SOFTWARE

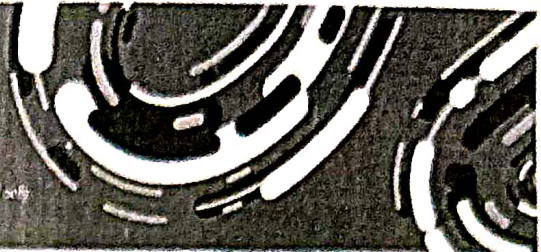


TAX INVOICE

Original for Accounts/Debit and For Service

your Vi bill

Every 1000th bill of paper cost is a tree. Let's conserve. Send an SMS to 199 to get your bill on email only.



Invoice No: EIPY062400002242

Bill cycle date: 01.07.24

(details on page 5)

Ship To :

SRI VENKATESHWARAA MEDICAL COLLEGE HOSPITAL AND RAMACHANDRAN B 13A, PONDY TO VILLUPURAM MAIN ROAD, ARIYUR, PONDICHERRY - 605102

Bill To :

SRI VENKATESHWARAA MEDICAL COLLEGE HOSPITAL AND RAMACHANDRAN B 13A, PONDY TO VILLUPURAM MAIN ROAD, ARIYUR, PONDICHERRY - 605102



Happy to help

Email us at vibusinessbillingsupport.in@vodafoneidea.com Call on 180012155666 (VI toll free) or +91 9920055666 (Chargeable)

Amount due: INR 413,000.00

Due date: 15.07.2024

Relationship no: 49495682

Summary of charges for this bill period

(INR)

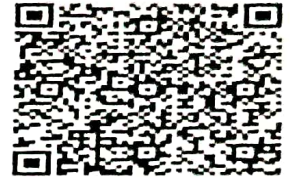
Table with 2 columns: Charge Type and Amount. Includes One time charges (10,000.00), Recurring charges (340,000.00), Usage charges (0.00), Total value of services (350,000.00), Misc. credits / charges (0.00), Total taxable charges (350,000.00), (+) Tax (63,000.00), and TOTAL PAYABLE (413,000.00).

Amount in words: Four Lakh Thirteen Thousand Rupees

No Tax is payable under reverse charge GST shall be applicable for invoices generated on or after 1st July 2017.

Invoice Ref No:

Invoice Date: 01.07.24



one Postpaid plan for all your business needs

Vi Business Plus Postpaid plans at ₹349 onwards



Scan the QR code to know more



PAN No: AAACB2100P

HSN Code: 998413

Vodafone Idea GSTIN: 34AAACB2100P1Z2

Your previous outstanding balance in (INR): 0.00

Terms & Conditions: 1. Payment not made within due date will carry interest as per agreement. 2. All disputes are subject to Mumbai Jurisdiction only. 3. For invoice related enquiries, kindly send mail to: backoffice.in@vodafoneidea.com or contact your account manager. 4. For termination request, kindly send mail along with relevant circuit details to: JLTermination.helpdesk@vodafoneidea.com

Vodafone Idea Limited (Formerly Idea Cellular Limited) An Aditya Birla Group & Vodafone Partnership(CIN-L32100GJ1996PLC030976) Business Office Address: PSA FORT, Plot Nos.A1, A2 & B, Nehru Nagar 1st Main Road, Perungudi, Chennai - 600096 Regd Office Address: SumanTower, Plot No 18, Sector no 11, Gandhinagar 382011, Gujarat -Tel + 91 79 6671 4000

Tear off this slip and return it with your payment. Be sure not to staple.

Payment Slip:

Relationship number: 49495682 Invoice number: EIPY062400002242 Invoice date: 01.07.24 Due date: 15.07.2024 Amount due INR: 413,000.00

Cheque/DD in payment of invoice should be drawn in favour of "Vodafone Idea Limited". Kindly mention the Relationship number while making the payment, this will facilitate us to allocate the payment against the respective invoice.

By cheque: Cheque No: Dated: Bank Name: Bank branch address:

RTGS Details:

Bank Name: State Bank of India Bank branch address: The Capital, 16th Floor BKC, Bandra East, Dist Mumbai 400051 Account no: 40824110781 RTGS/IFSC Code: SBIN0016376 Swift code: SBININBB796 MICR Code: NA

PAN No: AAACB2100P

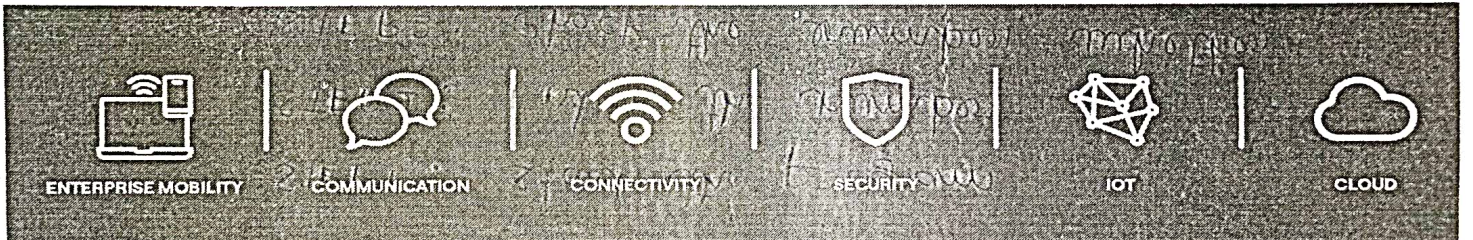
HSN Code: 998413

GSTIN: 34AAACB2100P1Z2

Your usage details

Company Name	: SRI VENKATESHWARAA MEDICAL COLLEGE HOSPITAL AND	Invoice Date	: 01.07.24
PO Number	: VI 001 001	Invoice Number	: EIPY062400002242
PO Date	: 13.03.24	Relationship Number	: 49495682
Control Number	: 2068578	Circuit ID	: ENT32CHNPQY102111
Plan Name	: ILL_QRC_AZA_Service Charges_INR	Port Bandwidth	: NA
Product Flavor	: BUSINESS INTERNET LEASED LINES(1:1 ILL)	CIR Bandwidth	: 1024 Mbps
Billing Periodicity	: Quarterly	Annual Charges	: 1,200,000.00
		Service Rental (INR)	
		Installation Address:	: PONDY TO VILLUPURAM MAIN ROAD 13A ARIYUR PONDICHERY 605102 PONDICHERY

Billing Details for Vi ILL Service: 2068578				Amount (INR)
Recurring Charges	B/W (In Mbps)	ARC	Charges for the period	
Service Rental Charges	1024	1200000	19.06.24 to 30.06.24	40,000.00
Service Rental Charges	1024	1200000	01.07.24 to 30.09.24	300,000.00
Sub total				340,000.00
Total Rental Charges				340,000.00
One time charges				Net Charges (INR)
ILL OTC				10,000.00
Total One time charges				10,000.00
				(INR)
Tax				
State GST @ 9.00%				31,500.00
Central GST @ 9.00%				31,500.00
Total taxes				63,000.00
Total Charges for Vi ILL Service: 2068578				413,000.00



TAX INVOICE

(ORIGINAL FOR RECIPIENT)

SPSS South Asia Private Limited
 5DC - 701, 2nd Floor, 5th D Cross
 1st Block, HRBR Layout
 Bangalore - 560 043
 GSTIN/UIN: 29AADCS8134M1ZT
 State Name : Karnataka, Code : 29
 CIN: U72200KA1999PTC025869
 E-Mail : finance@spss.co.in

Invoice No. SPSS/209/2022-23	Dated 27-Mar-2023
Supplier's Ref	Other Reference(s)
Buyer's Order No. ES/PO/22-23/0069	Dated 23-Feb-2023

Buyer
Sri Venkateshwaraa College of Engineering and Technology
 13 - A, Pondy-Villupuram Main Road
PUDUCHERRY - 605 102
 Tel: 0413 - 2260 601
 State Name : Puducherry, Code : 34
 Place of Supply : Puducherry

Sl No.	Description of Services	HSN/SAC	Quantity	Rate	per	Amount
1	IBM SPSS STATISTICS BASE - 29.0 Ten Users	997331	10 Nos	9,974.20	Nos	99,742.00
2	IBM SPSS ADVANCED STATISTICS Ten Users	997331	10 Nos	5,601.90	Nos	56,019.00
3	IBM SPSS REGRESSION Ten Users	997331	10 Nos	5,601.90	Nos	56,019.00
						2,11,780.00
Less: Output - IGST - 18% Round-Off						38,120.40 (-)0.40
Total						30 Nos ₹ 2,49,900.00

*To
 A/c
 MBA Dept
 Job 8/w (Subhakar)
 8/4*

249885

Amount Chargeable (in words) **Rupees Two Lakh Forty Nine Thousand Nine Hundred Only**
 E. & O.E

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
997331	2,11,780.00	18%	38,120.40	38,120.40
Total	2,11,780.00		38,120.40	38,120.40

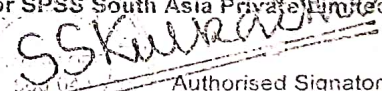
Tax Amount (in words) **Rupees Thirty Eight Thousand One Hundred Twenty and Forty paise Only**

Remarks:
 Please download the software from our website www.download.spss.co.in Manuals are integrated in electronic help system within SPSS Software.

Company's Bank Details
 Bank Name : ICICI Bank Ltd., B'lore
 A/c No. : 000205001818
 Branch & IFS Code : Commissariat Road & ICIC0000002

Company's PAN : **AADCS8134M**

Declaration
 We declare that this invoice shows the actual price of the services described and that all particulars are true and correct.

for SPSS South Asia Private Limited

 Authorised Signatory

TAX INVOICE

(ORIGINAL FOR RECIPIENT)

MEHTA COMPUTERS
 13A73, Devaraja Mudali Street
 1st Floor, Park Town
 Next to Vijaya Bank
 Chennai - 600003
 Ph: 044-42624072, 42624805
 Email: MehtaComputers@rediffmail.Com
 GSTIN/UIN: 33ADPPJ1114Q1ZE
 State Name: Tamil Nadu, Code: 33

Consignee (Shipped To)
 SRI VENKATESHWARAA COLLEGE OF ENGINEERING AND TECHNOLOGY
 13-A, PONDY-VILLUPURAM MAIN ROAD,
 ARIYUR
 PUDUCHERRY - 605102
 Contact Person: Mr. Sundaramurthy
 Cell: 09791430527
 State Name: Puducherry, Code: 34

Buyer (if other than consignee) (Billed To)
 SRI VENKATESHWARAA COLLEGE OF ENGINEERING AND TECHNOLOGY
 13-A, PONDY-VILLUPURAM MAIN ROAD,
 ARIYUR
 PUDUCHERRY - 605102
 Contact Person: Mr. Sundaramurthy
 Cell: 09791430527
 State Name: Puducherry, Code: 34
 Place of Supply: Puducherry

Invoice No MC/2022-23/1859	e Way Bill No 6414 0500 2334	Dated 27-Aug-2022
Delivery Note	Supplier's Ref 1859	Mode/Terms of Payment Immediate
Buyer's Order No ES/PO/22-23/0024	Despatch Document No.	Other Reference(s)
Despatched through Pisces Cargo	Bill of Lading/LR-RR No 0013315 dt. 27-Aug-2022	Dated 3-Aug-2022
Terms of Delivery	Destination Puducherry	Delivery Note Date
	Motor Vehicle No.	

SI No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
1	HP 280 G6 DESKTOP i3-10th / 4GB / 1TB / Win 10 Pro (OEM) 18.5 / 3 Yrs Gigabyte 240GB SSD Direct Warranty	84715000	18 %	30 NOS	36,016.95	NOS	10,80,508.50
	Less : OUTPUT IGST @ 18% ROUNDED OFF					18 %	1,94,491.53 (-).03
Total				30 NOS			₹ 12,75,000.00 E. & O.E

Amount Chargeable (in words)
INR Twelve Lakh Seventy Five Thousand Only

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
84715000	10,60,508.50	18%	1,94,491.53	1,94,491.53
Total	10,80,508.50		1,94,491.53	1,94,491.53

Tax Amount (in words) : **INR One Lakh Ninety Four Thousand Four Hundred Ninety One and Fifty Three paise Only**

Declaration
 Terms : 1) Goods once sold cannot be taken back. 2) Any complaint should be lodged within 24hrs of receipt of goods. 3) Warranty clause voids in case of physical damage or burnt. 4) All items warranty should be claimed from respective manufacturers only. 5) Interest @ 24% PA will be charged if the payment not made in the credit allowed and cheque bounce charges are Rs.500/- per cheque returned.

Company's Bank Details
 Bank Name : Bank Of India
 A/c No. : 6003 2011 00 00 184
 Branch & IFS Code: Sowcarpet & BKID0008003
 for MEHTA COMPUTERS

TAX INVOICE

(ORIGINAL FOR RECIPIENT)



MEHTA COMPUTERS
 Old 73, Devnarala Mudali Street
 11nd Floor, Park Town
 Next to Vijaya Bank
 Chennai - 600003
 Ph : 044-42624072, 42624806
 Email : Mehtacomputers@rediffmail.com
 GSTIN/UIN: 33ADPPJ1114Q1ZE
 State Name : Tamil Nadu, Code : 33

Invoice No. e-Way Bill No.	Dated
MC/2022-23/1829	30-Jul-2022
Delivery Note	Mode/Terms of Payment
	Immediate
Supplier's Ref.	Other Reference(s)
1829	
Buyer's Order No.	Dated
ES/PO/22-23/0015	15-Jun-2022
Despatch Document No.	Delivery Note Date
Despatched through	Destination
Pisces Cargo	Puducherry
Bill of Lading/LR-RR No.	Motor Vehicle No.
10161 dt. 30-Jul-2022	

Consignee (Shipped To)
 SRI VENKATESHWARAA COLLEGE OF ENGINEERING AND TECHNOLOGY
 13-A,PONDY-VILLUPURAM MAIN ROAD,
 ARIYUR
 PUDUCHERRY - 605102
 Contact Person : Mr.Sundaramurthy
 Cell : 09791430527
 State Name : Puducherry, Code : 34

Buyer (if other than consignee) (Billed To)
 SRI VENKATESHWARAA COLLEGE OF ENGINEERING AND TECHNOLOGY
 13-A,PONDY-VILLUPURAM MAIN ROAD,
 ARIYUR
 PUDUCHERRY - 605102
 Contact Person : Mr.Sundaramurthy
 Cell : 09791430527
 State Name : Puducherry, Code : 34
 Place of Supply : Puducherry

Terms of Delivery

Sl No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
1	HP 280 G6 DESKTOP Ci3-10th / 4GB / 1TB / Win 10 Pro (OEM) 18.5" / 3 Yrs Gigabyte 240GB SSD Direct Warranty	84715000	18 %	30 NOS	36,016.95	NOS	10,80,508.50
	Less: OUTPUT IGST @ 18% ROUNDED OFF					18 %	1,94,491.53 (-)0.03
	Total			30 NOS			₹ 12,75,000.00

Amount Chargeable (in words) **INR Twelve Lakh Seventy Five Thousand Only** E. & O.E

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
84715000	10,80,508.50	13%	1,94,491.53	1,94,491.53
Total	10,80,508.50		1,94,491.53	1,94,491.53

Tax Amount (in words) : **INR One Lakh Ninety Four Thousand Four Hundred Ninety One and Fifty Three paise Only**

Declaration
 Terms : 1) Goods once sold cannot be taken back. 2) Any complaint should be lodged within 24hrs of receipt of goods. 3) Warranty clause voids in case of physical damage or burnt. 4) All items warranty should be claimed from respective manufacturers only. 5) Interest @ 24% PA will be charged if the payment not made in the credit allowed and cheque bounce charges are Rs.500/- per cheque returned.

Company's Bank Details
 Bank Name : Bank Of India
 A/c No. : 9003 2011 00 00 184
 Branch & IFS Code: Sowcarpet & BKID0008003

Customer's Seal and Signature

for MEHTA COMPUTERS
 Authorised Signatory

GRK COMPUTERS

NO. 20/74, THIRUVANTHIPURAM MAIN ROAD
KOOTHAPAKKAM, CUDDALORE,
CUDDALORE, Tamil Nadu - 607002

Name: P. JAYAKANNAN
Phone: 9952545554
Email: mail2grkassociates@yahoo.com

GSTIN: 33BBEPK5861M2ZC

GST TAX

ORIGINAL FOR RECIPIENT

Customer Detail		Invoice No.	GRK/SALES/206	Invoice Date	07-Oct-2023
M/S	SRI VENKATESHWARAA COLLEGE OF ENGINEERING & TECHNOLOGY	Vehicle Number	TN31AB4484		
Address	ARIYUR, PUDUCHERRY, Puducherry - 605102				
PHONE	9791430527				
GSTIN					
Place of Supply	Puducherry (34)				

Sr. No.	Name of Product / Service	HSN / SAC	Qty	Rate	Taxable Value	IGST		Total
						%	Amount	
1	Intel i3-10th Gen NUC - 10i3FNHN INTEL I3 10TH GEN NUC/ADATA 256GB M.2 NVME SSD/ADATA 16GBDDR4 RAM / LG 20" LED MONITOR/FINGERS KEYBOARD WITH MOUSE/DELL POWER CORD/3 YEARS WARRANTY.		60.00	23,644.07	14,18,644.20	18.00	2,55,355.96	16,74,000.16
Total			60.00		14,18,644.20		2,55,355.96	16,74,000.16

To
A/C
CSE Dept
Students
M
18/10

60 - CPU monitor,
key board & mouse
- Received
All systems working properly & in good condition
M
18/10/23
Old may be passed
100%

Total in words
SIXTEEN LAKH SEVENTY-FOUR THOUSAND RUPEES ONLY

Taxable Amount	14,18,644.20
Add: IGST	2,55,355.96
Total Tax	2,55,355.96
Total Amount After Tax	₹16,74,000.00

Certified that the particulars given above are true and correct.

For GRK COMPUTERS

R. Jayakanan
Authorized Signatory

We declare that this invoice shows actual price of the goods described and that all particulars are true correct.
Goods once sold will not be taken back.
We do not accept any responsibility for damage, loss or delay in transit.
Warranty must be claimed from manufacturer only.

To
A/C
M
18/10

All 60 NUC kit checked ok
B-D
CIT Dept, 18/10/23

GRK COMPUTERS

REG. NO. 14, 1001/AR/1111 UDAM MAIN ROAD
 PUDUCHERRY 605002
 CONTACT NO. 9952541311

Phone: 9952541311
 Email: info@grkcomputers.com

GST TAX INVOICE

ORIGINAL FOR RECIPIENT

Customer ID: GRK/PR5861M22C

Invoice No.

GRK/SALES/308

Invoice Date

30-Nov-2023

Customer Name: SRI VENKATESHWARAA COLLEGE OF
 ENGINEERING & TECHNOLOGY

Address: ARYUR, PUDUCHERRY, Puducherry -
 605102

Place of Supply: Puducherry (S4)

Name of Product / Service	HSN / SAC	Qty	Rate	Taxable Value	IGST		Total
					%	Amount	
INTEL NUC WITH 20" LED MONITOR INTEL I3 11TH GEN NUC/ADATA 2.56GB M.2 NVME SSD/ADATA 16GB DDR4 RAM / LG 20" LED MONITOR/FINGERS KEYBOARD WITH MOUSE/DELL POWER CORD/3 YEARS WARRANTY.		60.00	23,898.31	14,33,898.60	18.00	2,58,101.75	16,92,000.35
Total		60.00		14,33,898.60		2,58,101.75	16,92,000.35

Handwritten notes:
 To ALL
 MBP - 30 Nos
 CPU - 30 Nos
 LG - 30 Nos
 60
 Shokun
 wire Shokun
 M. Jitay

Total in words

SIXTEEN LAKH NINETY-TWO THOUSAND RUPEES ONLY

Bank Details

Name: AXIS BANK
 Branch: CUDDALORE
 Acc. Number: 920020056426334
 IFSC: UTIB0000798

Terms and Conditions

We declare that this invoice shows actual price of the goods described and that all particulars are true correct.
 Goods once sold will not be taken back.
 We do not accept any responsibility for damage, loss or delay in transit.
 Warranty must be claimed from manufacturer only.

Taxable Amount	14,33,898.60
Add: IGST	2,58,101.75
Total Tax	2,58,101.75
Total Amount After Tax	₹16,92,000.00

Certified that the particulars given above are true and correct.

For GRK COMPUTERS

Handwritten signature: P. Jitay

Authorised Signatory

INVOICE

an Systems
 219, 1st, Lenin Street,
 apalayam
 ducherry - 605013
 9443229749/ 9840098867
 113 - 2247722

Venkateshwaras College of Engg & Technology
 tyu,
 rdicherry - 605 102
 0413 - 2260615.

Invoice No. 1181	Dated 14-Jul-2016
Delivery Note	Mode/Terms of Payment
Supplier's Ref 07,2016	Other Reference(s)
Buyer's Order No SVCE&T/PO-188/15-16	Dated 16-Mar-2016
Despatch Document No.	Dated
Despatched through	Destination
Terms of Delivery	

Description of Goods	Quantity	Rate	per	Amount
Dell Desktop Vostro 4th Gen Intel Core I3-4170 Processor 4 GB Ram 500 GB Hard Disk Windows 8.1 DVD Drive 18.5"LED Monitor Keyboard With Mouse 3 Year Warranty S/N: 7JLN6C2, 7K9M6C2, 7KMR6C2, VF3N6C2 BD8R6C2, 7KSK6C2, BC7L6C2, 7JQT6C2 BF7L6C2, BDVQ6C2, BF8M6C2, BDRP6C2 BKPK62, 7KKQ6C2, 7KRM6C2, BDLS6C2 BCXR6C2, 7KNQ6C2, 7JMT6C2, BF2V6C2 BDZL6C2, 7JMM6C2, BDQQ6C2, BD3L6C2 BCM6C2, BF2R6C2, BBZM6C2, 7KGT6C2	30 nos	29,047.62	nos	8,71,428.60

continued ...



This is computer Generate Invoice.

INVOICE

Csn Systems
No 719, 118, Lenin Street,
Kosapalayam
Puducherry - 605013
Ph 9443229749/ 9840098867
0413 - 2247722

Buyer
Sri Venkateshwaraa College of Engg & Technology
Ariyur,
Puducherry - 605 102.
Ph 0413 - 2260615.

Invoice No.	Date:
Delivery Note	31-Mar-2015 Mode/Terms of Payment
Supplier's Ref.	Other Reference(s)
101	
Buyer's Order No.	Dated
SVCE&T/PO-076/15-16	26-Feb-2015
Despatch Document No.	Dated
Despatched through	Destination

Terms of Delivery

Sl No	Description of Goods	Quantity	Rate	per	Amount
1	Dell Desktop 4th Gen Core I3 Processor 4 GB Ram 500 GB HDD 18.5 Led Monitor Dos Included Keyboard with Mouse 3 Years Warranty	20 nos	27,809.52	nos	5,56,190.40
	Output VAT @ 5% Round Off			5 %	27,809.52 0.08
Total		20 nos			5,84,000.00

E. & O.E

Amount Chargeable (in words)
Rs. Five Lakh Eighty Four Thousand Only

Remarks:
All goods inspected and Accepted for good condition
Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for Csn Systems
[Signature]
Authorised Signatory

This is a Computer Generated Invoice.

SVCET	
ARIYUR, PUDUCHERRY	
CENTRAL	
GOODS RECEIVED	
On	31.3.15
Entry No	381
Date	31.03.15
Time	11:00

SVCET	
ARIYUR, PUDUCHERRY	
IN / OUT	
S. No. 363	Date 2/4/15
Veh. No.	Time 11:00
Security Sign.	

T.S. M...

CERTIFIED THAT THE ITEMS MENTIONED IN PRE. PAGE ARE RECEIVED AND FOUND IN GOOD CONDITION AS PER THE SPECIFICATION AND ENTERED IN THE STOCK REGISTER
PAGE No.

THE BILL FOR RS. 584,000

HOD

MAY BE PASSED FOR PAYMENT
PURCHASE MANAGER
PRINCIPAL

Two hundred and eighty four thousand only
plus panna hundred

INVOICE

Csn Systems
 No 219, 15B, Lenin Street,
 Kesapalayam
 Puducherry - 605013
 Ph: 9143229749/ 9840098867
 0413 - 2247722

Invoice No.
855
 Delivery Note

Dated
17-Apr-2015
 Mode/Terms of Payment

Supplier's Ref.
129

Other Reference(s)

Buyer's Order No
SVCE&T/PO-076/15-16
 Despatch Document No

Dated
26-Feb-2015
 Dated

Despatched through

Destination

Terms of Delivery

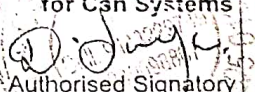
Buyer
Sri Venkateshwaraa College of Engg & Technology
 Ariyur,
 Puducherry - 605 102.
 Ph: 0413 - 2260615.

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	Dell Desktop 4th Gen Corei3 Processor 4 GB Ram 500 GB HDD 18.5" Led Monitor Dos Included Keyboard with Mouse 3 Years Warranty	36 nos	30,952.38	nos	11,14,285.68
	Output VAT @ 5% Round Off			5 %	55,714.28 0.04
	Total	36 nos			11,70,000.00

Amount Chargeable (in words)
Rs. Eleven Lakh Seventy Thousand Only

E. & O.E

Remarks:
 All goods inspected and accepted for good condition
 Declaration
 We declare that this invoice shows the actual price
 of the goods described and that all particulars are
 true and correct.

for Csn Systems

 Authorised Signatory

This is a Computer Generated Invoice.

SVCET
ARIYUR, PUDUCHERRY

CENTRAL STOCK REGISTER

GOODS RECEIVED

On 21-06-15

Entry No 115/31

Date 21-06-15

Time 1.00 PM

SVCET
ARIYUR, PUDUCHERRY

IN / OUT

S. No. 340359 Date 21/6/15

Veh. No. Time 12.00

Security Sign.

T.S. M...

CERTIFIED THAT THE ITEMS MENTIONED IN PRE-PACKAGED...
 THIS BILL FOR RS 117,000 MAY BE PASSED FOR PAYMENT
 PURCHASE MANAGER 23/06/15 PRINCIPAL

[Faint handwritten notes and signatures in Tamil script, likely providing details of the transaction and approvals.]



sri venkateshwarraa

College of Engineering & Technology

ASPIRE TO EXCEL

Ariyur, Puducherry-605 102.



SYLLABUS

PONDICHERRY UNIVERSITY



**Bachelor of Technology
COMPUTER SCIENCE AND ENGINEERING**

**Revised
Regulations, Curriculum & Syllabus
(for all semesters)
Effective from the academic year 2013-2014**

**PONDICHERRY UNIVERSITY
RV NAGAR, KALAPET, PUDUCHERRY – 605 014**

4. Eligibility for the award of Degree:

No candidate shall be eligible for the award of the degree of Bachelor of Technology, unless he/she has undergone the course for a period of 8 semesters (4 academic years) / 6 semesters (3 academic years for Lateral Entry candidates) in the faculty of Engineering and has passed the prescribed examinations in all the semesters.

5. Branches of Study:

- Branch I - Civil Engineering
- Branch II - Mechanical Engineering
- Branch III - Electronics & Communication Engineering
- Branch IV - Computer Science & Engineering
- Branch V - Electrical & Electronics Engineering
- Branch VI - Chemical Engineering
- Branch VII - Electronics & Instrumentation Engineering
- Branch VIII - Information Technology
- Branch IX - Instrumentation & Control Engineering
- Branch X - Biomedical Engineering

or any other branches of study as and when offered. The branch allocation shall be ordinarily done at the time of admission of the candidate to the first semester.

6. Subjects of Study:

The subjects of study shall include theory and practical courses as given in the curriculum and shall be in accordance with the prescribed syllabus. The subjects of study for the first two semesters shall be common for all branches of study.

7. Examinations:

The theory and practical examinations shall comprise continuous assessment throughout the semester in all subjects as well as university examinations conducted by Pondicherry University at the end of the semester (November / December or April / May).

- (a) Theory courses for which there is a written paper of 75 marks in the university examination.

The Internal Assessment marks of 25 has to be distributed as 10 marks each for two class tests and 5 marks for class attendance in the particular subject. The distribution of marks for attendance is as follows.

- 5 marks for 95% and above
- 4 marks for 90% and above but below 95%
- 3 marks for 85% and above but below 90%
- 2 marks for 80% and above but below 85%
- 1 mark for 75% and above but below 80%

In total, three tests are to be conducted and the better two are to be considered for assessment.

- (b) Practical courses for which there is a university practical examination of 50 marks:

The internal assessment marks of 50 has to be distributed as 20 marks for the periodic practical works and records submitted thereof, 15 marks for an internal practical examination, 5 marks for an internal viva voce, and 10 marks for class attendance in the particular subject. The distribution of marks is as given below.

10 marks for 95% and above
8 marks for 90% and above but below 95%
6 marks for 85% and above but below 90%
4 marks for 80% and above but below 85%
2 marks for 75% and above but below 80%

8. Requirement for appearing for University Examination:

A candidate shall be permitted to appear for university examinations at the end of any semester only if:

- i) He / She secures not less than 75% overall attendance arrived at by taking into account the total number of periods in all subjects put together offered by the institution for the semester under consideration.
(Candidates who secure overall attendance greater than 60% and less than 75% have to pay a condonation fee as prescribed by University along with a medical certificate obtained from a medical officer not below the rank of Asst. Director)
- ii) He / She earns a progress certificate from the Head of the institution for having satisfactorily completed the course of study in all the subjects pertaining to that semester
- iii) His / Her conduct is found to be satisfactory as certified by the Head of the institution.

A candidate who has satisfied the requirement (i) to (iii) shall be deemed to have satisfied the course requirements for the semester.

9. Procedure for completing the course:

A candidate can join the course of study of any semester only at the time of its normal commencement and only if he/she has satisfied the course requirements for the previous semester and further has registered for the university examinations of the previous semester in all the subjects as well as all arrear subjects if any.

However, the entire course should be completed within 14 consecutive semesters (12 consecutive semesters for students admitted under lateral entry).

10. Passing Minimum:

- a. A candidate shall be declared to have passed the examination in a subject of study only if he/she secures not less than 50% of the total marks (Internal Assessment plus University examination marks) and not less than 40% of the marks in University examination.
- b. A candidate who has been declared “Failed” in a particular subject may reappear for that subject during the subsequent semesters and secure a pass. However, there is a provision for revaluation of failed or passed subjects provided he/she fulfills the following norms for revaluation.
 - i. Applications for revaluation should be filed within 4 weeks from the date of declaration of results or 15 days from the date of receipt of marks card whichever is earlier. The candidate should have attended all the college examinations as well as
 - ii. university examinations.

- iii. If a candidate has failed in more than four papers in the current university examination, his/her representation for revaluation will not be considered. The request for revaluation must be made in the format prescribed duly recommended by the Head of the Institution along with the revaluation fee prescribed by the University.
- iv. Further the University examination marks obtained in the latest attempt shall alone remain valid in total suppression of the University examination marks obtained by the candidate in earlier attempts

Further the University examination marks obtained in the latest attempt shall alone remain valid in total suppression of the University examination marks obtained by the candidate in earlier attempts

11. Award of Letter Grades

The assessment of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain points, will be awarded as per the range of total marks (out of 100) obtained by the candidate, as detailed below:

<u>Range of Total Marks</u>	<u>Letter Grade</u>	<u>Grade Points</u>
<u>90 to 100</u>	<u>S</u>	<u>40</u>
<u>80 to 89</u>	<u>A</u>	<u>9</u>
<u>70 to 79</u>	<u>B</u>	<u>8</u>
<u>60 to 69</u>	<u>C</u>	<u>7</u>
<u>55 to 59</u>	<u>D</u>	<u>6</u>
<u>50 to 54</u>	<u>E</u>	<u>5</u>
<u>0 to 49</u>	<u>F</u>	<u>0</u>
<u>Incomplete</u>	<u>FA</u>	

‘F’ denotes failure in the course. ‘FA’ denotes absent / detained as per clause 8.

After results are declared, grade sheets will be issued to the students. The grade sheets will contain the following details:

- (a) The college in which the candidate has studied.
- (b) The list of courses enrolled during the semester and the grades scored.
- (c) The Grade Point Average (GPA) for the semester and Cumulative Grade Point Average (CGPA) of all enrolled subjects from first semester onwards.
- (d) GPA is the ratio of sum of the products of the number of credits (C) of courses registered and the corresponding grades points (GP) scored in those courses, taken for all the courses and sum of the number of credits of all the courses

$$\text{GPA} = (\text{SUM OF } (C \times \text{GP}) / \text{SUM OF } C)$$

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. FA grades are to be excluded for calculating GPA and CGPA.

The conversion of CGPA into percentage marks is as given below

$$\% \text{ Marks} = (\text{CGPA} - 0.5) \times 10$$

12. Award of Class and Rank:

- i) A candidate who satisfies the course requirements for all semesters and who passes all the examinations prescribed for all the eight semesters (six semesters for lateral entry candidates) within a maximum period of 7 years (6 years for lateral entry candidates) reckoned from the commencement of the first semester to which the candidate was admitted shall be declared to have qualified for the award of degree.
- ii) A candidate who qualifies for the award of the degree passing in all subjects pertaining to semesters 3 to 8 in his/her first appearance within 6 consecutive semesters (3 academic years) and in addition secures a CGPA of 8.50 and above for the semesters 3 to 8 shall be declared to have passed the examination in FIRST CLASS with DISTINCTION.
- iii) A candidate who qualifies for the award of the degree by passing in all subjects relating to semesters 3 to 8 within a maximum period of eight semesters after his/her commencement of study in the third semester and in addition secures CGPA not less than 6.5 shall declared to have passed the examination in FIRST CLASS.
- iv) All other candidates who qualify for the award of degree shall be declared to have passed the examination in SECOND CLASS.
- v) For the Award of University ranks and Gold Medal for each branch of study, the CGPA should be considered from 1st to 8th semester. It is mandatory that the candidate should have passed all the subjects from 1st to 8th semester in the first attempt. Rank certificates would be issued to the first ten candidates in each branch of study.

A candidate may, for valid reasons, and on the recommendation of the Head of the Institution be granted permission by the University to withdraw from writing the entire semester examination as one Unit. The withdrawal application shall be valid only if it is made earlier than the commencement of the last theory examination pertaining to that semester. Withdrawal shall be permitted only once during the entire course. Other conditions being satisfactory, candidates who withdraw are also eligible to be awarded DISTINCTION whereas they are not eligible to be awarded a rank.

14. Discontinuation of Course:

If a candidate wishes to temporarily discontinue the course for valid reasons, he/she shall apply through the Head of the Institution in advance and obtain a written order from the University permitting discontinuance. A candidate after temporary discontinuance may rejoin the course only at the commencement of the semester at which he/she discontinued, provided he/she pays the prescribed fees to the University. The total period of completion of the course reckoned from the commencement of the first semester to which the candidate was admitted shall not in any case exceed 7 years, including of the period of discontinuance.

15. Revision of Regulations and Curriculum:

The University may from time to time revise, amend or change the regulations of curriculum and syllabus as and when found necessary.

ANNEXURE – A

B.Tech courses in which admission is sought	Diploma courses eligible for admission
Civil Engineering	Civil Engineering Civil and Rural Engineering Architectural Assistantship Architecture Agricultural Engineering Mechanical Engineering
Mechanical Engineering	Automobile Engineering Agricultural Engineering Mechanical and Rural Engineering Refrigeration and Air-conditioning Agricultural Engineering & Farm Equipment Technology Metallurgy Production Engineering Machine Design & Drafting Machine tool maintenance and Repairs Printing Technology / Engineering Textile Engineering / Technology Tool Engineering
Electrical and Electronics Engineering Electronics & Communication Engineering Electronic and Instrumentation Engineering Instrumentation and Control Engineering	Electrical Engineering Electrical and Electronics Engineering Electronics and Instrumentation Engineering Instrumentation Engineering / Technology Electronics and Communication Engg. Electronics Engineering Medical Electronics Instrumentation and Control Engineering Applied Electronics
Bio Medical Engineering	Chemical Engineering Chemical Technology Petrochemical Technology Petroleum Engineering Ceramic Technology Plastic Engineering Paper & Pulp Technology / Polymer Technology
Information Technology Computer Science & Engineering	Computer Science and Engineering Computer Technology Electrical and Electronics Engineering Electronics & Communication Engineering Electronics & Instrumentation Engineering Instrumentation Engineering / Technology Information Technology

CURRICULUM & SYLLABUS B.Tech(Computer Science & Engineering)

I Semester

Sub. Code	Subjects	Periods			Credits	Marks		
		L	T	P		IA	UE	TM
	Theory							
T101	Mathematics – I	4	-	-	4	25	75	100
T102	Physics	4	-	-	4	25	75	100
T103	Chemistry	3	1	-	4	25	75	100
T104	Basic Electrical and Electronics Engineering	3	1	-	4	25	75	100
T105	Engineering Thermodynamics	3	1	-	4	25	75	100
T106	Computer Programming				4			
	Practical							
P101	Computer Programming Lab	-	-	3	2	50	50	100
P102	Engineering Graphics	2	-	3	2	50	50	100
P103	Basic Electrical & Electronics Lab				2	50	50	100
	Total	22	4	9	30	300	600	900

II Semester

Sub. Code	Subjects	Periods			Credits	Marks		
		L	T	P		IA	UE	TM
	Theory							
T107	Mathematics – II	4	-	-	4	25	75	100
T108	Material Science	4	-	-	4	25	75	100
T109	Environmental Science	4	-	-	4	25	75	100
T110	Basic Civil and Mechanical Engineering	3	1	-	4	25	75	100
T111	Engineering Mechanics	4	-	-	4	25	75	100
T112	Communicative English				4			
	Practical							
P104	Physics lab	-	-	3	2	50	50	100
P105	Chemistry lab	-	-	3	2	50	50	100
P106	Workshop Practice	-	-	3	2	50	50	100
P107	NSS / NCC *	-	-	3	2	50	50	100
	Total	22	2	9	30	300	600	900

* To be completed in I and II semesters, under Pass / Fail option only and not counted for CGPA calculation.

III Semester

Code	Name of the Subjects	Periods			Credits	Marks		
		L	T	P		IA	UE	TM
	Theory	3	1					100
MA T31	Mathematics –III	3	1	-	4	25	75	100
CS T32	Electronics Devices and Circuits	3	1	-	4	25	75	100
CST33	Object Oriented Programming and Design	3	1	-	4	25	75	100
CS T34		3	1	-	4			100
CS T35	Digital System Design	3	1	-	4	25	75	100
CS T36	Data Structures			-	4	25	75	100
	Computer Organization and Architecture					25	75	
	Practical							
CS P31 CS P32	Electronics Devices and Circuits Laboratory	-	-	3	2	50	50	100
CSP33	Data Structures Laboratory	-	-	3	2	50	50	100
	Digital System Design Laboratory		6	9	30			
	Total					50	50	100
		18				300	600	900

IV Semester

Code No	Name of the Subjects	Periods			Credits	Marks		
		L	T	P		IA	UE	TM
	Theory	3	1					
MA T41	Mathematics –IV	3	1	-	4	25	75	100
CS T42	Microprocessors and Microcontrollers	3	1	-	4	25	75	100
CS T43	Automata Languages and Computations	3	1	-	4	25	75	100
CS T44		3	1	-	4	25	75	100
CS T45	Design and Analysis of Algorithms	3	1		4	25	75	100
CS T46	Object Oriented Programming				4	25	75	100
	Graphics and Image Processing							
	Practical							
CS P41	Microprocessors and Microcontrollers Laboratory	-	-	3	2	50	50	100
CS P42	Design and Analysis of Algorithms Laboratory	-	-	3	2	50	50	100
CSP43	Object Oriented Programming	-	-	3	2	50	50	100
SP P44	Laboratory	-	-	-	-			
	Physical Education *		6	9	30	-	-	-
	Total	18				300	600	900

* Student is required to secure a pass and no grade will be awarded

V Semester

Code	Name of the Subjects	Periods			Credits	Marks		
		L	T	P		IA	UEE	TM
	Theory							
CS T51	Operating Systems	3	1	-	4	25	75	100
CS T52	Computer Networks	3	1	-	4	25	75	100
CS T53	Database Management Systems	3	1	-	4	25	75	100
CS T54	Language Translators	3	1	-	4	25	75	100
CS T55	Software Engineering	3	1	-	4	25	75	100
	Practical							
CS P51	Operating Systems Laboratory	-	-	3	2	50	50	100
CS P52	Computer Networks Laboratory	-	-	3	2	50	50	100
CS P53 HS P54	Database Management System Laboratory	-	-	3	2	50	50	100
	General Proficiency – I	-	-	3	1	100	-	100
	Total	15	5	12	27	375	525	900

VI Semester

Code	Name of the Subjects	Periods			Credits	Marks		
		L	T	P		IA	UEE	TM
	Theory							
CS T61	Enterprise Solutions	3	1	-	4	25	75	100
CS T62	Embedded Systems	3	1	-	4	25	75	100
CS T63	Web Technology	3	1	-	4	25	75	100
	Elective - I	3	1	-	4	25	75	100
	Elective - II	3	1	-	4	25	75	100
	Practical							
CS P61	Enterprise Solutions Laboratory	-	-	3	2	50	50	100
CS P62	Embedded Systems Laboratory	-	-	3	2	50	50	100
CS P63	Web Technology Laboratory	-	-	3	2	50	50	100
CS P64	General Proficiency - I	-	-	3	1	100	-	100
HS P65	General Proficiency - II	-	-	3	1	100	-	100
	Total	20	4	12	28	475	525	1000

VII Semester

Code No.	Name of the Subjects	Periods			Credits	Marks		
		L	T	P		IA	UE	TM
	Theory		1			75		
CS T71	Artificial Intelligence	3	1	-	4	25	75	100
CS T72	Computer Hardware and Network	3	1	-	4	25	75	100
CS T73	Trouble Shooting	3	1	-	4	25	75	100
	Platform Technology	3	1	-	4	25	75	100
	Elective-III	-	-	3	2	50	50	100
CS P71	Practical	-	-	3	2	50	50	100
CS P72	Artificial Intelligence Laboratory	-	-	3	2	-	-	100
CS P73	Troubleshooting Laboratory	-	-	6	6	-	-	200
CS PW7	Platform Technology Laboratory		4		6	100	400	900
	Project Work – Phase I					200		
	Total	12	15			500		

VIII Semester

Code No.	Name of the Subjects	Periods			Credits	Marks		
		L	T	P		IA	UE	TM
	Theory							
CS T81	Professional Ethics	3	-	3	1	100	-	100
CS T82	Engineering Economics and Management		1	-	4	25	75	100
CS T83	Information Security	3	1	-	4	25	75	100
	Elective - IV	3	1	-	4	25	75	100
	Elective-V	3	1	-	4	25	75	100
	Practical							
CS P81	Seminar	-	-	3	1	100	-	100
CS P82	Comprehensive Viva-Voce	-	-	3	1	100	-	100
CS PW8	Projects Work – Phase II	-	-	6	8	300	300	600
	Total	12	4	15	27	700	600	1300

Electives for Sixth Semester

1. CS E61 Object Oriented Analysis and Design
2. CS E62 Network Design and Management
3. CS E63 E-Business
4. CS E64 Principles of Programming Languages
5. CS E65 Information Theory and Coding Techniques
6. CS E66 Language Technologies
7. CS E67 UNIX Internals
8. CS E68 Data Mining and Warehousing
9. CS E69 SOA and Web Services
10. CS E610 Distributed Computing
11. CS E611 Agile Methodologies
- CS E612 Application Outsourcing Services

Electives for Seventh Semester

1. CS E71 Software Testing and Quality Assurance
2. CS E72 Advanced Databases
3. CS E73 Client Server Computing
4. CS E74 Real Time Computing and Communication
5. CS E75 Software Architecture
6. CS E76 High Speed Networks
7. CS E77 Network Protocols
8. CS E78 Modeling and Simulation
9. CS E79 Business Process Domains
10. CS E710 Software Project Management
- CS E711 Natural Language Processing
- CS E712 Optical Networks

Electives for Eighth Semester

- CS E811. Intelligent Information Retrieval
- CS E822. Soft Computing
- CS E833. Bio Inspired Computing
- CS E844. Mobile Computing
- CS E855. Grid Computing
- CS E866. Agent Technologies
- CS E877. Bio Informatics
- CS E888. High Performance Computing
- CS E899. Wireless Communication Networks
10. CS E810 Big Data Management
11. CS E811 Cloud Computing
12. CS E812 Mobile Application Development

Steam generators (Boilers) – Classification – Constructional features (of only low pressure boilers) – Boiler mountings and accessories – Merits and demerits - Applications.

Unit - V

Power Generation Systems – Convectional and Non-Conventional:
Hydraulic – Thermal – Nuclear power plants – Schemes and layouts (Description Only)
Solar – wind –Geothermal - Wave – Tidal and Ocean Thermal Energy Conversion systems – Basic power plant schemes and layouts (Description only).

Unit - VI

Manufacturing Processes:
Machines – Lathe – Drilling – Bending – Grinding – Shearing (Description only)
Machining Processes – Turning – Planning – Facing – Blanking – Drilling – Punching – Shearing – Bending – Drawing – Filing – Sawing – Grinding.
Moulding and Metal Joining - Pattern making – Green and dry sand moulding – Arc and Gas welding – Brazing – Soldering (process description only).

Text Books

1. Purushothama Raj.P., Basic civil engineering, 3rd Edn., Dhanam Publications, Chennai, 2001.
2. Natarajan, K V, Basic Civil Engineering, 11th Edition, Dhanalakshmi Publications Chennai, 2001.
3. Lindberg, R.A.Process and Materials of Manufacture, PHI, 1999.
4. H.N.Gupta, R.C.Gupta and Arun Mittal, Manufacturing Processes, New Age Publications, 2001
5. Nagpal, Power Plant Engineering, Khanna Publishers, Delhi, 1998.

Reference Books

1. Rajput, R K, Engineering Materials, S Chand & Co. Ltd., New Delhi, 2002.
2. Punmia, B.C., et. al., Surveying, Vol-I, Laxmi Publishers, New Delhi, 2002.
3. Punmia, B.C., et.al Building Construction, Laxmi Publishers, New Delhi ,2002.
4. El.Wakil, M.M., Power Plant Technology, Mc Graw Hill Book Co.,1985.
5. Hajra Choudhry, et. al., Workshop Technology Vol I and II, Media Promoters Publishers Pvt. Ltd., Bombay, 2004.

Pondicherry University



Curriculum and Syllabus

BACHELOR OF TECHNOLOGY

B.Tech.

Computer Science and Engineering

2023-24

[Affiliated College]

REGULATIONS 2023-24

S.No.	CONTENTS	PAGE NO.
1	CONDITIONS FOR ADMISSION	3
2	AGE LIMIT	3
3	DURATION OF THE PROGRAMME	3
4	PROGRAM STRUCTURE	4
5	ELIGIBILITY FOR THE AWARD OF B.TECH. DEGREE	4
6	BRANCHES OF STUDY	4
7	COURSE STRUCTURE AND SUBJECTS OF STUDY	5
8	EXAMINATIONS	6
9	PROCEDURE FOR COMPLETING THE B.TECH. COURSE	11
10	AWARD OF CLASS AND RANK IN B.TECH. DEGREE	12
11	PROVISIONS FOR HONORS/MINOR DEGREE ALONG WITH B.TECH DEGREE PROVISION FOR WITHDRAWAL	12
12	PROVISION FOR EXITS IN B.TECH. COURSE	14
13	REVISION OF REGULATIONS	15
14	AND CURRICULUM	17

1. Conditions for Admission:

- a) Candidates for admission to the first semester of the 8 semester B.Tech. degree programme should be required to have passed:

The Higher Secondary Examination of the (10+2) curriculum (Academic Stream) prescribed by the different State Boards/ Central Boards or any other examination equivalent there to with minimum of 45% marks (40% marks in case of candidates belonging to reserved category) in aggregate of subjects – Mathematics, Physics and any one of the following optional subjects: Chemistry / Biotechnology/ Computer Science / IT and equivalent/ Electronics/ Biology (Botany & Zoology) or Passed D.Voc Stream in the same or allied sector or an Examination of any University or Authority recognized by the Executive Council of the Pondicherry University as equivalent thereto.

- b) Candidates for admission through Lateral entry into second year (third semester) of the 8 semester B.Tech. degree programme should be required to have passed :

Passed Minimum THREE years / TWO years (Lateral Entry) Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) in ANY branch of Engineering and Technology.

OR

Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.

OR

Passed D.Voc. Stream in the same or allied sector.

(The Universities/colleges will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the programme)

2. Age Limit:

As per applicable AICTE norms.

3. Duration of Programme:

The Bachelor of Technology degree programme shall extend over a period of 8 semesters spread over 4 academic years – two semesters constituting one academic year. The duration

of each semester shall normally be 15 weeks excluding examinations.

4. Program Structure

The medium of instruction is English.

A student admitted to the B.Tech. programme in a particular branch of engineering will earn the degree in that branch by fulfilling all the requirements prescribed in the regulations during the course of study. The student is also permitted to opt for earning an Honors degree in the same discipline of Engineering or a Minor degree in another discipline of engineering in addition to the degree in his own discipline of engineering. The student will be allowed to exercise this option at the end of first year based on his academic performance in the first year. The students admitted through lateral entry can exercise this option at the end of third semester, based on the GPA scored in the third semester examination. The student opting for B.Tech. degree with Honors or B.Tech. degree with Minor is required to earn additional 20 credits starting from the third semester. The students admitted in the second year through lateral entry and opting for Honors / Minor degree will earn the additional 20 credits starting from the fourth semester.

5. Eligibility for the award of B.Tech. Degree:

No candidate shall be eligible for the award of the degree of Bachelor of Technology, unless he/she has undergone the course for a period of 8 semesters (4 academic years) / 6 semesters (3 academic years for Lateral Entry candidates) in the Faculty of Engineering and has passed the prescribed examinations in all the semesters. Details regarding the possible exit for a B.Tech. Student – in line with one of the goals of the National Education Policy (NEP) 2020 are provided in section 13.

6. Branches of Study:

- Branch I - Civil Engineering
- Branch II – Mechanical Engineering
- Branch III - Electronics & Communication Engineering
- Branch IV - Computer Science & Engineering
- Branch V – Electrical & Electronics Engineering
- Branch VI – Chemical Engineering
- Branch VII - Electronics & Instrumentation Engineering

Branch VIII –Information Technology

Branch IX - Instrumentation & Control Engineering

Branch X– Biomedical Engineering

Branch XI - Robotics and Automation

Branch XII – Food Technology

Branch XIII - CSE (Internet of Things & Cyber security including Block chain Technology)

Branch XIV – Artificial Intelligence and Machine Learning

Branch XV – Artificial Intelligence and Data Science

or any other branch of study as and when offered. The branch allocation shall be ordinarily done at the time of admission of the candidate to the first semester.

7.Course Structure and Subjects of Study:

Definition of Credit:

1 Hour Lecture (L) per week	1 Credit
1 Hour Tutorial (T) per week	1 Credit
2 Hours Practical (P) per week	1 Credit

Range of Credits: The total credits of all the branches for the four-year B. Tech. degree Programme shall be in the range of 160 to 172 (Minor variation is allowed as per AICTE guidelines). “Minor Degree or Honors will cumulatively require additional 20 credits in the specified area in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline”.

The subjects of study shall include theory, practical courses and project work/internships as given in the curriculum and shall be in accordance with the prescribed syllabus.

The curriculum of every programme will have courses that are categorized as follows:

- (i) Humanities, Social Sciences and Management Courses (HSM)
- (ii) Basic Science Courses (BSC)
- (iii) Engineering Science Courses (ESC)
- (iv) Professional Core Courses (PCC)
- (v) Professional Elective Courses (PEC)
- (vi) Open Elective Courses (OEC)

7

(vii) Professional Activity Courses (PAC)

(viii) Mandatory non-Credit Courses (MCC)

Each course will have either one or more of three components namely Lecture (L), Tutorial (T) and Practice (P). Each course is assigned credits as detailed below:

- (i) Theory courses will carry either 3 or 4 credits - 3 credits for courses with 3 lecture periods per week and 4 credits for courses with 3 lecture periods and 1 tutorial period per week.
- (ii) All Elective courses including online courses will carry maximum 3 credits. The student can earn the credits towards the Open Elective Courses (OEC) by completing the online courses offered in NPTEL anytime between third and seventh semester on prior approval of the courses by the Academic Courses Committee of the Institute. Credits earned through the NPTEL courses will be confined to 2 or 3 credits and subject to a maximum of 9 credits during the entire programme of study. Students can also earn credits for the open Elective Courses upon completing the open Elective Courses offered by other Departments in their curriculum and regulations.
- (iii) Practical courses will normally carry either 1 or 1.5 credits – 1.5 credits for courses with 3 practice periods per week and 1 credit for courses with 2 practice periods per week.
- (iv) Out of total credits required for successful completion of the degree, 14 to 22 credits can be assigned for Project work and/or Internship.
- (v) Mandatory non-credit courses carry zero credit.

8. Examinations:

The theory and practical examinations shall comprise continuous internal assessment throughout the semester in all subjects as well as university examinations conducted by Pondicherry University at the end of the semester (November / December or April /May).

8.1. Evaluation Scheme

All Credit courses are evaluated for 100 marks comprising of Internal assessment and end-semester exam.

For Theory Course, the weightage of internal assessment is 40% and end semester examination is 60%

For Practical course, the weightage of internal assessment is 60% and end semester examination is 40%

For Project, the weightage of internal assessment is 60% and end semester examination is 40%

8.2. Internal Assessment (Theory)

Total Internal Assessment mark for a theory course is 40 marks. The breakup is as follows:

Criteria	Maximum Marks
a) Internal Assessment	30
b) Tests Percentage of	5
c) Attendance Assignment(s)	5
Total	40

Marks for Attendance are as follows:

Below 75%	0
75% - 80%	1
81% - 85%	2
86% - 90%	3
91% - 95%	4
96% - 100%	5

The Principal of the College/Institute schedules the Internal Assessment tests for all courses. All faculty members are expected to conduct this Internal Assessment tests for 1.30 hours duration and evaluate and required to upload the marks to the Controller of Examinations of University. Colleges are also requested to preserve the answer sheets of Internal Assessment tests until declaration of results by the University.

8.3. Internal Assessment (Practical's)

Faculty in-charge of Lab courses shall evaluate the practical course for 60 marks. The break up is as follows:

Criteria	Maximum Marks
a) Laboratory exercises and Record	30
c) Mid Semester exam (Average of 2 exams)	15
c) Internal Viva voce	5
d) Percentage of Attendance	10
Total	60

Marks for Attendance is as follows:

Below 75%	0
75% - 80%	2
81% - 85%	4
86% - 90%	6
91% - 95%	8
96% - 100%	10

8.4. Internal Assessment (Project)

The Project work carried out in the eighth semester shall be assessed as follows:

Criteria	Marks
a) Continuous assessment (Guide)	25
b) Project Evaluation Committee	35
Total	60

8.5 Requirement for appearing for University Examination

The Controller of Examinations (COE) of Pondicherry University schedules the End-Semester exams for all theory and practical courses based on the University academic calendar. A detailed Exam Time Table shall be circulated to all Colleges at least 15 days before the start of exams. Question Papers shall be set externally based on BOS approved syllabus.

A candidate shall be permitted to appear for university examinations at the end of any semester only if:

- i) He / She secures not less than 75% overall attendance arrived at by taking into account the total number of periods in all subjects put together offered by the institution for the semester under consideration.

(Candidates who secure overall attendance greater than 60% and less than 75% have to pay a condonation fee as prescribed by University along with a medical certificate obtained from a medical officer not below the rank of Assistant Director)

- ii) He / She earns a progress certificate from the Head of the institution for having satisfactorily completed the course of study in all the subjects pertaining to that semester

- iii) His / Her conduct is found to be satisfactory as certified by the Head of the institution.

A candidate who has satisfied the requirement (i) to (iii) shall be deemed to have satisfied the course requirements for the semester.

8.6 End Semester Exam Evaluation Pattern

<u>Course</u>	Maximum marks
a) <u>Theory course</u> (Sec A, Sec B and Sec C) Questions from all units of syllabus	60 marks
b) <u>Practical course</u> (Based on Lab exercises/Record/ Practicals /Viva)	40 marks
c) <u>Internship /Project Work</u> (Based on Seminar/Project Work/Project report/Presentation and viva voce)	40 marks

8.7 Consolidation of Marks and Passing Minimum

The Controller of Examinations of the University consolidates the Internal Assessment marks uploaded by the Colleges and marks secured by students in the end-semester examination.

A student shall be declared to have passed the examination in a subject of study only if he/she secures not less than 40% marks individually both in internal assessment and end- semester examination or an aggregate of 40%.

A candidate who has been declared “Fail” in a particular subject may reappear for that subject during the subsequent semesters and secure pass marks. However, there is a provision for revaluation of failed or passed subjects provided he/she fulfills the following norms for revaluation.

- a) Applications for revaluation should be filed within 15 days from the date of declaration of results or 7 days from the date of receipt of grade sheet whichever is earlier.
- b) The candidate should have attended all the internal assessments conducted by the college as well as all the end semester examinations conducted by the University.
- c) If a candidate has failed in more than two papers in the end semester examinations, his/her representation for revaluation will not be considered.
- d) The request for revaluation must be made in the prescribed format duly recommended by the Head of the Institution along with the revaluation fee prescribed by the University.

~~A student shall be declared to have 40% marks in the examination in a subject of study only if he/she secures an overall aggregate of 40%.~~

8.8. Arrear Exams

A student who failed to secure 40% marks in aggregate is declared as “Fail” and he is eligible to take up a supplementary examination by registering to the said course in the following semester. All other candidates who failed due to shortage of attendance and those seeking to improve the grade shall repeat the course.

8.9. Letter Grades and Calculation of CGPA

Total Marks Secured by a student in each course shall be converted into a letter grade. The following Table shows the seven letter grades and corresponding meaning and the grade points for the calculation of Cumulative Grade Point Average (CGPA).

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits, and the mapping of marks to grades may be done as per the following table:

Range of Marks	Assigned Grade	Grade Points
91-	A+	10
100	A	9
81-90	B+	8
71-80	B	7
61-70	C+	6
51-60	C	5
46-50	D	4
40-45	F	0
Not Applicable	FR (Fail due to shortage of attendance and therefore, to repeat the course)	0

Note: -F- denotes failure in the course; - FR - denotes absent / detained as per AICTE norms. After the results are declared, grade sheets will be issued to the students. The grade sheets will contain the following details:

- The college in which the candidate has studied.
- The list of courses enrolled during the semester and the grades scored.
- The Grade Point Average (GPA) for the semester and the Cumulative Grade Point Average (CGPA) of all enrolled subjects from first semester onwards.
- GPA is the ratio of sum of the products of the number of credits (C) of courses registered and the corresponding Grades Points (GP) scored in those courses, taken for all the courses and sum of the number of credits of all the courses.

$$GPA = \frac{\sum(C \times GP)}{\sum C}$$

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. FR grades are to be excluded for calculating GPA and CGPA.

- The conversion of CGPA into percentage marks is as follows

$$\% \text{ Mark} = (CGPA - 0.5) \times 10$$

9. Procedure for completing the B.Tech. course:

A candidate can join/rejoin the course of study of any semester only at the time of its normal

commencement and only if he/she has satisfied the course requirements for the previous semester and further has registered for the university examinations of the previous semester in all the subjects as well as all arrear subjects if any. However, the entire B.Tech. course should be completed within 7 years (14 semesters) and six years (12 semesters) for students admitted under lateral entry.

10. Award of Class and Rank in B.Tech. degree:

- i) A candidate who satisfies the course requirements for all semesters and who passes all the examinations prescribed for all the eight semesters (six semesters for lateral entry candidates) within a maximum period of 7 years (6 years for lateral entry candidates) reckoned from the commencement of the first semester to which the candidate was admitted shall be declared to have qualified for the award of B.Tech. degree.
- ii) A candidate who qualifies for the award of the B.Tech. degree passing in all subjects pertaining to the semesters 3 to 8 in his/her first appearance within 6 consecutive semesters (3 academic years) and in addition secures a CGPA of 8.50 and above for the semesters 3 to 8 shall be declared to have passed the examination in FIRST CLASS with DISTINCTION.
- iii) A candidate who qualifies for the award of the B.Tech. degree by passing in all subjects relating to semesters 3 to 8 within a maximum period of eight semesters after his/her commencement of study in the third semester and in addition secures CGPA not less than 6.5 shall be declared to have passed the examination in FIRST CLASS.
- iv) All other candidates who qualify for the award of B.Tech. degree shall be declared to have passed the examination in SECOND CLASS.
- v) For the Award of University ranks and Gold Medal for each branch of study, the CGPA secured from the 1st to 8th semester alone should be considered and it is mandatory that the candidate should have passed all the subjects from the 1st to 8th semester in the first attempt. Rank certificates would be issued to the first ten candidates in each branch of study.

11. Provisions for Honors/Minor degree along with B.Tech. degree:

1. B.Tech. with Honors Degree in the same Engineering discipline
 - a. The student shall be given an option to earn a Honors degree in the same discipline of engineering at the end of first year based on his academic performance in the first year.
 - b. A student is eligible to exercise this option if he has passed all the subjects offered in

- the first year in the first attempt itself and has earned a CGPA of not less than 7.5.
- c. Honors degree in a particular discipline of engineering shall be offered for a batch of students if and only if a minimum of 5 eligible students opt for it.
 - d. The student is required to earn an additional 20 credits (over and above the prescribed maximum credits in the curriculum) starting from the third semester onwards to become eligible for the award of Honors degree. 20 credits shall be earned by the student by completing 5 additional courses of 4 credits each, one in each of the 5 semesters starting from the third to seventh semester. The syllabus of these 5 courses are framed so as to cover advanced topics in that discipline of engineering.
 - e. The students admitted in the second year through Lateral Entry Scheme will also be given a chance to opt for Honors degree. Eligibility to avail this option is CGPA of 7.5 and above with no arrears in the third Semester. The student will join the existing batch of students in the fourth semester and earn 16 credits by registering the prescribed courses offered up to the seventh semester. The respective BoS will decide on a suitable course in lieu of the course offered in the third semester to facilitate the student to earn the remaining 4 credits.
 - f. A student is eligible to get the Honors degree only on completing the programme in 'First Class with Distinction' class.
- g. A student can exercise the option to withdraw from the Honors degree at any time after entry.
- h. Details about the courses completed and credits earned for Honors degree will appear only in the 'Eighth Semester Grade Sheet' and 'Consolidated Grade Sheet'. These details will be listed under the heading 'Credits Earned for Honors degree'. In the case of students who have either withdrawn from Honors degree or become ineligible for Honors degree by not securing 'First Class with Distinction', the credits earned for the courses registered and successfully completed for Honors degree will be listed under the heading 'Additional Credits Earned'.
- i. The CGPA will be calculated for all the courses credited by the students inclusive of major and honors courses
- j. Nomenclature of Honors Degree is 'B.Tech.(Honors) in XXX', where XXX is Discipline in which the student has enrolled.
2. B.Tech. with Minor degree in another Engineering discipline
 - a) The student shall be given an option to earn a minor degree in another discipline of engineering of his choice at the end of first year based on his academic performance in the first year.

b) A student is eligible to exercise this option if he has passed all the subjects offered in the first year in the first attempt itself and has earned a CGPA of not less than 7.5.

c) Minor degree in a particular discipline of engineering shall be offered for a batch of students if and only if a minimum of 5 eligible students opt for it.

d) The student is required to earn an additional 20 credits (over and above the prescribed maximum credits in the curriculum) starting from the third semester onwards to become eligible for the award of minor degree. 20 credits shall be earned by the student by completing 5 additional courses of 4 credits each, one in each of the 5 semesters starting from the third to seventh semester. The curricular content of these 5 courses are framed in such a way that these courses will essentially cover the core minimum knowledge required to be fulfilled for award of degree in the discipline of engineering in which the student chooses to earn the minor degree.

e) The students admitted in the second year through Lateral Entry Scheme will also be given a chance to opt for Minor degree. Students with a CGPA of 7.5 and with no arrears in the third semester are eligible to avail this option. The student will join the existing batch of students in the fourth semester and earn 16 credits by registering for prescribed courses offered up to seventh semester. The respective BoS will decide on a suitable course in lieu of the course offered in the third semester to facilitate the student to earn the remaining 4 credits.

f) A student can exercise the option to withdraw from the Minor degree at any time after entry.

g) Details about the courses completed and credits earned for Minor degree will appear only in the 'Eighth Semester Grade Sheet' and 'Consolidated Grade Sheet'. These details will be listed under the heading 'Credits Earned for Minor degree'. In the case of students who have withdrawn from Minor degree, the credits earned for the courses registered and successfully completed for Minor degree will be listed under the heading 'Additional Credits Earned'.

h) Nomenclature of Minor Degree is 'B.Tech. in XXX with Minor in YYY', where XXX is Discipline in which the student is enrolled and YYY is Discipline which the student has opted as Minor.

i) The CGPA will be calculated for all the courses credited by the students inclusive of major and minor courses.

12.Provision for withdrawal:

Based on the recommendation of the Head of the Institution, a candidate with valid reasons may be granted permission by the University to withdraw from writing the entire semester examination as one Unit. The withdrawal application shall be valid only if it is made earlier than the commencement of the last theory examination pertaining to that semester. Withdrawal shall be permitted only once during the entire course. A candidate who has withdrawn is also eligible to be awarded DISTINCTION provided he/she satisfies the other necessary conditions. But, they are not eligible to be awarded a rank.

13.Provisions for exit in B.Tech. course:

(For courses where AICTE specifies exit in the model curriculum)

The curriculum and the syllabus for all B.Tech programmes have been planned in compliance with the NEP guidelines proposed by AICTE. Accordingly, students joining B.Tech programmes shall have all benefits NEP offers in terms of exercising exit option during the course of study. Every B.Tech programme governed under this school board shall adopt the NEP guidelines, as and when proposed/amended by AICTE, and the following scheme will be applied for all such B.Tech programmes specified by AICTE.

NEP 2020 suggests that a student can exercise exits at multiple stages of the course of study. As per AICTE norms, a student can have two possible exits before the completion of the Full Engineering degree and may get a UG Diploma /Certificate or B.Sc. degree in the relevant discipline if he/she fulfils the following conditions: (Subject to change as per AICTE guidelines)

1. UG Diploma/Certificate in the relevant branch of study

A student should be able to get a UG Diploma if he/she completes:

- a.50% of the credits for B.Tech. (80-85 credits)
- b.50% of the program core courses
- c. Students exiting the program after earning 50% credit requirements will be awarded a UG Diploma provided they secure an additional 6 credits through summer internships/apprenticeship of 2 months duration.
- d.Students admitted through lateral entry cannot exercise the exit option as he will not be able to meet out the 50% Credits for B.Tech. degree.

2 B.Sc. in the relevant branch of study

A student should be able to get a B.Sc. degree if he/she completes:

- (i) 75% of the credits for B.Tech. (minimum 120 credits) and atleast 3 years in the

program.

- (ii) 100% of the core program courses.
- (iii) Students exiting the program after earning 75% credit requirements will be awarded a B.Sc. provided they secure an additional 6 credits through 2 summer internships/apprenticeship for 2 months each.
- (iv) With B.Sc. degree, the student is eligible for entry into programs which take B.Sc. degree as eligibility criteria.

2.1 Award of Class in B.Sc. degree

A candidate who satisfies the course requirements for all semesters and who passes all the examinations within a maximum period of 6 years (5 years for lateral entry candidates) reckoned from the commencement of the first semester to which the candidate was admitted shall be declared to have qualified for the award of B.Sc. degree in the relevant discipline.

- i) A candidate who qualifies for the award of the B.Sc. degree passing in all subjects pertaining to semesters the 3 to 6 in his/her first appearance within 4 consecutive semesters (2 academic years) and in addition secures a CGPA of 8.50 and above for the semesters 3 to 6 shall be declared to have passed the examination in FIRST CLASS with DISTINCTION.
- ii) A candidate who qualifies for the award of the B.Sc. degree by passing in all subjects relating to semesters 3 to 6 within a maximum period of six semesters after his/her commencement of study in the third semester and in addition secures CGPA not less than 6.5 shall be declared to have passed the examination in FIRST CLASS.
- iii) All other candidates who qualify for the award of B.Sc. degree shall be declared to have passed the examination in SECOND CLASS.

2. Re-entry to complete the program

A student exiting with B.Sc. should be entitled to re-enroll in the programme of the same Engineering discipline. Only students admitted to the B.Tech. programme and exercised an exit option are eligible for readmission to the B.Tech. programme under the same discipline. It is suggested that all credits will be transferred, if the student enrolls back within a limited period (3 years) of exiting. In case a student enrolls after that, then the decision on the transfer of credits should be based on the changes in the curriculum the student studied. A candidate after exit may rejoin the course only at the commencement of the semester at which he/she discontinued, provided he/she pays the prescribed fees to the University. The total period of completion of the B.Tech. course reckoned from the commencement of the first semester to

which the candidate was admitted shall not in any case exceed 7 years, including of the period of discontinuance.

3. Completion Possibility in other Institutions

A student can earn B.Sc. in one institution (Engineering) and complete the degree program in another institution (same Engineering discipline only).

(Note: If these exit options are accepted for multiple B.Tech. programs, it is suggested that AICTE actively communicate these to the industry and other bodies, so they recognize these and accept them as bona-fide credentials for the purposes of recruitment and/or eligibility for admission to programs, appearing in competitive examinations, etc.)

14.Revision of Regulations and Curriculum:

The University may from time-to-time revise, amend or change the regulations of curriculum and syllabus as and when found necessary.

GENERAL COURSE STRUCTURE & THEME

A. Definition of Credit:

1 Hr. Lecture (L) per week	1 Credit
1 Hr. Tutorial (T) per week	1 Credit
2 Hours Practical (P) per week	1 Credit

B. ~~Range of Credits~~ In the light of the fact that a typical Model Four-year Undergraduate degree program in Engineering has about 163 credits, the total number of credits proposed for the four-year B. Tech/B.E. in Computer Science and Engineering (Engineering and Technology) is kept as 169.

C. ~~Structure of~~ UG Program in Computer Science and Engineering (CSE):
of UG programming Computer Science and Engineering (CSE) shall have essentially the following categories of courses with the breakup of credits as given:

S.No.	Category	Credit Breakup for CSE students
1	Humanities and Social Sciences including Management courses	13
2	Basic Science courses	26
3	Engineering Science courses including Workshop, Drawing, Basics of Electronics/Electrical/Mechanical/Computer etc.	24
4	Professional Core courses	68
5	Professional Elective courses relevant to chosen Specialization/ Branch	12
6	Open Electives from other Technical and /or Emerging subjects	9
7	Project work, Seminar and Internship in Industry or elsewhere	17
8	Mandatory Courses [Environmental Sciences, Induction Program, Indian Constitution, Essence of Indian Knowledge Tradition]	(non-credit)
	Total	169

D. Course code and Definition:

Course code	Definitions
L	Lecture
T	Tutorial
P	Practical
C	Credits
CSBS	Basic Science Courses
CSES	Engineering Science Courses
CHS	Humanities and Social Sciences including Management Courses
CSPC	Professional Core Courses
CSHL	Humanities and Social Sciences Lab Courses
CSBL	Basic Science Lab Courses
CSEL	Engineering Science Lab Courses
CSPL	Professional Core Lab Courses
CSH	Honor Courses

CSM	Minor Courses
CSPE	Professional Elective Courses
CSOE	Open Elective Courses
CSPROJ	Mini Project / Capstone Project/Seminar/Internship
CSMC	Mandatory Courses
CSAU	Audit Courses

- Course level coding scheme: Three-digit number(odd numbers are for the odd semester courses and even numbers are for even semester courses) used as suffix with the Course Code for identifying the level of the course. Digit at hundred's place signifies the year in which course is offered. e.g.
101, 102 ... etc. for first year.
201, 202 etc. for second year.
301, 302 ... etc. for third year.
- Category-wise Courses

HUMANITIES & SOCIAL SCIENCES COURSES [CSHS]

S. No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1.	CSHL104	Design Thinking	I	0	0	2	1
2.	CSHS201	English	II	2	0	2	3
3.	CSHS205	Universal Human Values-II	III	2	1	0	3
4.	CSHS305	Principles of Management	IV	3	0	0	3
5.	CSHS405	Organizational Behaviour		3	0	0	3
Total Credits							13

BASIC SCIENCE COURSES [CSBS]

S. No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1	CSBS101	Mathematics-I	I	3	1	2	4
.	CSBS102	Physics	I	3	0	0	3
2	CSBL101	Physics Lab	II	0	0	4	2
.	CSBS202	Mathematics-II	II	3	1	0	4
3	CSBS203	Chemistry	II	3	0	0	3
.	CSBL201	Chemistry Lab	III	0	0	4	2
4	CSBS304	Mathematics-III	VII	3	0	0	3
.	CSBS702	Biology		2	1	0	3
5	Total Credits						24

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ENGINEERING SCIENCE COURSES [CSES]

S. No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1.	CSES103	Basic Electronic Engineering	I	3	0	0	3
2.	Graphics & Design	Electronics Lab	I	0	0	4	2
3.			II	1	0	4	3
4.	CSES204	Programming for Problem Solving	II	3	0	0	3
5.	CSEL202	Programming for Problem Solving Lab	II	0	0	4	2
6.	CSEL203	Workshop Lab	III	1	0	4	3
7.	CSES301	Microprocessor and Microcontroller	III	3	0	0	3
8.	CSES303	Digital Electronics and Systems	III	3	0	0	3
9.	CSEL301	Microprocessor and Microcontroller Lab	III	0	0	4	2
10	CSEL303	Digital Electronics and Systems Lab		0	0	4	2
Total Credits							26

PROFESSIONAL CORE COURSES [CSPC]

S.No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1.	CSPC302	Data Structures and Algorithms	III	3	0	0	3
2.	CSPL302	Data Structures and Algorithms Lab	III	0	0	4	2
3.	CSPL304	IT Workshop (SciLab /MATLAB)	III	1	0	4	3
4.	CSPC401	Discrete Mathematics	IV	3	1	0	4
5.	CSPC402	Computer Organization and Architecture	IV	3	0	0	3
6.	CSPC403	Design and Analysis of Algorithms	IV	3	0	0	3
7.	CSPC404	Advanced Programming in JAVA	IV	3	0	0	3
8.	CSPL401	Computer Organization and Architecture Lab	IV	0	0	4	2
9.	CSPL402	Design and Analysis of Algorithms Lab	IV	0	0	4	2
10	CSPL403	JAVA Programming Lab	IV	0	0	4	2
.	CSPC501	Computer Networks	V	3	0	0	3
11	CSPC502	Database Systems	V	3	0	0	3
.	CSPC503	Theory of Computation	V	3	1	0	4

14.	CSPC504	Operating Systems Computer	V	3	0	0	3
15	CSPL501	Networks Lab Database Systems	V	0	0	4	2
.	CSPL502	Lab Operating Systems Lab Web	V	0	0	4	2
16	CSPL503	Technology Compiler Design	V	0	0	4	2
.	CSPC601	Distributed Computing System	VI	3	0	0	3
17	CSPC602	Artificial Intelligence and Machine	VI	3	0	0	3
.	CSPC603	Learning Web Technology Lab	VI	3	0	0	3
18	CSPC604	Compiler Design Lab	VI	3	1	0	4
.	CSPL601	Cyber Security	VI	0	0	4	2
19	CSPL602	Cyber Security Lab	VI	0	0	4	2
.	CSPC701		VII	3	0	0	3
20	CSPL701		VII	0	0	4	2
Total Credits							68

21

PROFESSIONAL ELECTIVE COURSES [CSPE]

S.No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1	CSPEXXX	Professional Elective-I	V	3	0	0	3
2	CSPEXXX	Professional Elective-II	VI	3	0	0	3
3	CSPEXXX	Professional Elective-III	VII	3	0	0	3
4	CSPEXXX	Professional Elective-IV	VIII	3	0	0	3
Total Credits							12

25

OPEN ELECTIVE COURSES [CSOE]

S. No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1.	CSOEXXX	Open Elective-I	VII	3	0	0	3
2.	CSOEXXX	Open Elective-II	VIII	3	0	0	3
3.	CSOEXXX	Open Elective-III	VIII	3	0	0	3
Total Credits							9

Note: Open Elective Courses are offered to the students of other Departments.

PROJECT WORK, SEMINAR AND INTERNSHIP IN INDUSTRY OR ELSEWHERE

S. No	Course Code	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1	CSPROJ603	Mini Project	VI	0	0	6	3
.	CSPROJ702	Seminar	VII	0	0	2	1
2	CSPROJ703	Capstone Project -I	VII	0	0	12	6
.	CSPROJ801	Capstone Project-II	VIII	0	0	12	6
3	CSPROJ802	Internship		0	0	0	1
Total Credits							17

MANDATORY COURSES [CSMC]

S.No	Code No.	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1.	-	Induction Program (UHV)	IV	3 Weeks			0
2.	CSMC406	Environmental Sciences	V	3	-	-	0
3.	CSMC505	Constitution of India		3	-	-	0
Total Credits							0

COMMUNITY ENGAGEMENT/ AUDIT COURSES [CSAU]

S.No.	Course Code	Course Title	Semester	Hours per week			Total Credits
				Lecture	Tutorial	Practical	
1.	CSAU105	Sports and Yoga	I	2	0	4	0
2.	CSAU204	IDEA Workshop Lab	II	2	0	0	0
Total Credits							0

S.No	Course Category	Credits per Semester								Total Credits
		I	II	III	IV	V	VI	VII	VIII	
1.	Humanities and Social Sciences (HS)	1	6	3	3	-	-	-	-	13
2.	Basic Sciences (BS)	9	9	3	-	-	-	3	-	24
3.	Engineering Sciences (ES)	8	8	10	-	-	-	-	-	26
4.	Professional Core (PC)	-	-	8	19	19	17	5	-	68
5.	Professional Electives (PE)	-	-	-	-	3	3	3	3	12
6.	Open Electives (OE)	-	-	-	-	-	-	3	6	09
7.	Project Work/Seminar/	-	-	-	-	-	3	7	7	17
8.	Internship (PROJ)	0	0	-	0	0	-	-	-	0
	Mandatory Courses (MC)									
	/Audit Courses (AU)									
		18	23	24	22	22	23	21	16	169

INDUCTION PROGRAM

The Essence and Details of Induction program can also be understood from the 'Detailed Guide on Student Induction program', as available on AICTE Portal, (Link: <https://www.aicteindia.org/sites/default/files/Detailed%20Guide%20on%20Student%20Induction%20program.pdf>).

Induction program(mandatory)	Three-weekduration
Induction program for students to be offered right at the start of the first year.	<input type="checkbox"/> Physical activity <input type="checkbox"/> Creative Arts <input type="checkbox"/> Universal Human Values <input type="checkbox"/> Literary <input type="checkbox"/> Proficiency Modules <input type="checkbox"/> Lectures by Eminent People <input type="checkbox"/> Visits to local Areas <input type="checkbox"/> Familiarization to Dept./ Branch & Innovations

Mandatory Visits /Workshop / Expert Lectures

- a. It is mandatory to arrange one industrial visit every semester for the student of each branch
- b. It is mandatory to conduct a One-week workshop during the winter break after fifth semester on Professional/Industry/ Entrepreneurial Orientation.
- c. It is mandatory to organize at least one expert lecture per semester for each branch by inviting resource persons from domain specific industry.

CURRICULUM

SEMESTER I						
3 WEEK ORIENTATION PROGRAMME						
S. No	Course Code	Course Title	L	T	P	Credits
	CSBS101	Theory	3	1	0	
1	CSBS102	Mathematics- I	3	0	0	4
.	CSES103	Physics	3	0	0	3
2	CSBL101	Basic Electronics Engineering	0	0	4	3
.	CSEL102	Practical	0	0	4	2
3	CSEL103	Physics Lab	1	0	4	2
.		Basic Electronics Lab	0	0	2	3
4		Engineering Graphics & Design Lab	2	0	4	1
	CSHL104	Design Thinking				0
	CSAU105	IDEA Lab Workshop				
.	Total Credits					18
5						
6						

SEMESTER II						
S. No	Course Code	Course Title	L	T	P	Credits
8		Theory				3
1.	CSHS201	English	2	0	2	4
2.	CSBS202	Mathematics-II	3	1	0	3
3.	CSBS203	Chemistry	3	0	0	3
4.	CSES204	Programming for Problem Solving	3	0	0	3
5.	CSHS205	Universal Human Values-II	2	1	0	2
6.	CSBL201	Practical	0	0	4	2
		Chemistry Lab	0	0	4	3
7.	CSEL202	Programming for Problem Solving Lab	1	0	4	0
8.	CSEL203	Workshop/Manufacturing Lab	2	0	0	
9.	CSAU204	Sports and Yoga				
	Total Credits					23

SEMESTER III						
S.No	Course Code	Course Title	L	T	P	Credits
	CSES301	Theory				3
1.	CSPC302	Microprocessor and Microcontroller	3	0	0	3
2.	CSES303	Data Structures and Algorithms	3	0	0	3
3.	CSBS304	Digital Electronics and Systems	3	0	0	3
4.	CSHS305	Mathematics-III Principles of	3	0	0	3
5.		Management	3	0	0	2
	CSEL301	Practical	0	0	4	2
6	CSPL302	Microprocessor and Microcontroller Lab	0	0	4	2
7	CSEL303	Data Structure and Algorithms Lab	0	0	4	3
8	CSPL304	Digital Electronics and System Lab	1	0	4	
9		IT Workshop (SciLab/MATLAB)				
	Total Credits					24

SEMESTER IV						
S.No	Course Code	Course Title	L	T	P	Credits
Theory,						
1	CSPC401	Discrete Mathematics	3	1	0	4
.	CSPC402	Computer Organization & Architecture	3	0	0	3
2	CSPC403	Design & Analysis of Algorithms	3	0	0	3
.	CSPC404	Advanced Programming in JAVA	3	0	0	3
3	CSHS405	Organizational Behaviour	3	0	0	3
.	CSMC406	Environmental Sciences	3	-	-	0
4	Practical					
7	CSPL401	Computer Organization & Architecture Lab	0	0	4	2
8	CSPL402	Design & Analysis of Algorithms Lab	0	0	4	2
9	CSPL403	JAVA Programming Lab	0	0	4	2
6	Total Credits					22

SEMESTER V						
S.No	Course Code	Course Title	L	T	P	Credits
Theory						
1	CSPC501	Computer Networks	3	0	0	3
.	CSPC502	Database Systems	3	0	0	4
2	CSPC503	Theory of Computation	3	1	0	3
.	CSPC504	Operating System	3	0	0	3
3	CSPEXXX	Professional Elective-I	3	0	0	0
.	CSMC505	Constitution of India	3	-	-	
4	Practical					
7	CSPL501	Computer Networks Lab	0	0	4	2
8	CSPL502	Database Systems Lab	0	0	4	2
9	CSPL503	Operating Systems Lab	0	0	4	2
Total Credits						22

SEMESTER VI						
S.No	Course Code	Course Title	L	T	P	Credits
Theory			3	0		
1	CSPC601	Web Technology	3	0	0	3
.	CSPC602	Compiler Design	3	0	0	3
2	CSPC603	Distributed Computing System	3	1	0	3
.	CSPC604	Artificial Intelligence and Machine Learning	3	0	0	4
3	CSPEXXX	Professional Elective-II	0	0	0	3
Practical			0	0	4	2
4	CSPL602	Web Technology Lab	0	0	4	2
.		Compiler Design Lab	0	0	4	2
5					6	3
8	CSPROJ603	Mini Project				
Total Credits						23

6

SEMESTER VII						
S. No	Course Code	Course Title	L	T	P	Credits
1.	CSPC701	Theory	3	0	0	3
2.	CSBS702	Cyber Security	2	1	0	3
3.	CSPEXXX	Biology	3	0	0	3
4.	CSOEXXX	Professional Elective-III	3	0	0	3
5.	CSPL701	Open Elective-I	0	0	4	2
Practical			0	0	2	1
6.	CSPROJ702	Cyber Security Lab	0	0	12	6
7.		Seminar	0	0		
	CSPROJ703	Capstone Project-I				
Total						21

SEMESTER VIII						
S.No	Course Code	Course Title	L	T	P	Credits
Theory						
1	CSPEXXX	Professional Elective-IV	3	0	0	3
.	CSOEXXX	Open Elective-II	3	0	0	3
2	CSOEXXX	Open Elective-III	3	0	0	3
Practical			0	0	12	6
4.	CSPROJ801	Internship	0	0	2	1
5	CSPROJ802					
Total						16

HONOR Courses							
S.No	Semester	Course Code	Course Title	L	T	P	Credits
THEORY							
1.	III	CSH01	Programming with C++	3	1	0	4
2	IV	CSH02	System Software	3	1	0	4
.	V	CSH03	Unix and Shell programming	3	1	0	4
3	VI	CSH04	Computer Graphics	3	1	0	4
.	VII	CSH05	Digital Image Processing	3	1	0	4
4	Total Credits						20

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MINOR Courses							
S.No	Semester	Course Code	Course Title	L	T	P	Credits
THEORY							
1	III	CSM01	Data Structures Principles of	3	1	0	4
.	IV	CSM02	Operating Systems Principles of	3	1	0	4
2	V	CSM03	Database Systems	3	1	0	4
.	VI	CSM04	Internet Programming	3	1	0	4
3	VII	CSM05	Network Technology	3	1	0	4
.	Total Credits						20

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LIST OF PROFESSIONAL ELECTIVE COURSES: VERTICALS

S. No	Course Code	Course Title	Periods			Credits
			Lecture	Tutorial	Practical	
	CSPE101					
1.	CSPE102	Software Engineering	3	0	0	3
2.	CSPE103	Software Project Management	3	0	0	3
3.	CSPE104	Open Source Software	3	0	0	3
4.	CSPE105	Software Testing and Quality Assurance	3	0	0	3
5.	CSPE201	Object Oriented Analysis and Design	3	0	0	3
6.	CSPE202	Human Computer Interaction	3	0	0	3
7.	CSPE203	Multimedia and Animation	3	0	0	3
8.	CSPE204	UI and UX Design	3	0	0	3
9.	CSPE205	Augmented Reality/ Virtual Reality	3	0	0	3
10	CSPE301	Graphics and Image Processing	3	0	0	3
.	CSPE302	Cloud Computing	3	0	0	3
11	CSPE303	Big Data Analytics	3	0	0	3
.	CSPE304	Building Cloud and Big Data Applications	3	0	0	3
12	CSPE305	Parallel Computing	3	0	0	3
.	CSPE401	Open Multi Processing	3	0	0	3
13	CSPE402	Mobile Computing	3	0	0	3
.	CSPE403	Mobile Application Development	3	0	0	3
14	CSPE404	Wireless Sensor Networks	3	0	0	3
.	CSPE405	Next Generation Networks	3	0	0	3
15	CSPE501	Internet of Things	3	0	0	3
.	CSPE502	Optimization Techniques	3	0	0	3
16	CSPE503	Deep Learning	3	0	0	3
.	CSPE504	Knowledge Engineering	3	0	0	3
17	CSPE505	Natural Language Processing	3	0	0	3
.	CSPE601	Artificial Neural Networks	3	0	0	3
18	CSPE602	Information Security	3	0	0	3
.	CSPE603	Modern Cryptography	3	0	0	3
19	CSPE604	Cryptocurrency and Block chain Technologies	3	0	0	3
.	CSPE605	Digital and Mobile Forensics	3	0	0	3
20		Ethical Hacking				
21						
.						
22						
.						
23						
.						
24						
.						
25						

LIST OF OPEN ELECTIVE COURSES [CSOE]

S.N	Code No.	Course Title	Hours per week			Total Credits
			Lecture	Tutorial	Practical	
1. 2.	CSOE001	Data Structures	3	0	0	3
3. 4.	CSOE002	Fundamentals of Database	3	0	0	3
5.	CSOE003	Essentials of Operating Systems	3	0	0	3
	CSOE004	Fundamentals of Cloud Computing	3	0	0	3
	CSOE005	Linux Programming	3	0	0	3

Note: Open Elective Courses are offered to the students of other Departments.



sri venkateshwarraa
College of Engineering & Technology
ASPIRE TO EXCEL
Ariyur, Puducherry-605 102.



MONTHLY STOCK MAINTENANCE



sri venkateshwarraa
College of Engineering & Technology
ASPIRE TO EXCEL
Arya, Gudacheru-605 102



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DBMS LAB

STOCK FOR THE MONTH

January - 2025
DATE: 7/2/25

S.NO	CLASST.	PAGE NO:	NAME OF THE ITEMS	OP.	REC.	USE.	BAL.	REMARKS
1	ASSET	1	PC (Desktop, KEYBOARD & Mouse)	36	-	-	36	
2	ASSET	2	Network Rack	1	-	-	1	
3	ASSET	3	Network Switch(24Port)	2	-	-	2	
4	ELEC.	42	Light Fitting	5	-	-	5	
5	ELEC.	43	Fan	8	-	-	8	
6	FUR.	44	Computer Rack	2	-	-	2	
7	FUR.	47	Rolling Chair	36	-	-	36	
8	FUR.	49	Instruction Board	6	-	-	6	
9	FUR.	50	Table(Single side Drawer)	1	-	-	1	
10	ELEC.	49	Air Conditionar	2	-	-	2	
11	ELEC.	48	CCTV Camera	2	-	-	2	
12	ASSET	50	Dust Bin	1	-	-	1	
13	ELEC.	4	UPS	1	-	-	1	
14	ASSET	5	Steel Rack(small)	1	-	-	1	
15	FUR.	6	PlasticChair	1	-	-	1	
16	ASSET	7	White Board	1	-	-	1	

S. P. S. 7/2/25
LABINSTRUCTOR

[Signature]
HOD cum DEAN ACADEMIC

[Signature]
OM 7/2/25

[Signature]
PRINCIPAL

Handwritten notes in Tamil:
 1. பி.சி. (Desktop, கீப்போர்ட் & மவுஸ்) - 36
 2. நெட்வொர்க் ராக் - 1
 3. நெட்வொர்க் சுவிக் (24 பোর্ட்) - 2
 4. லைட் ஫ிடிங் - 5
 5. ஫ான - 8
 6. கம்ப்யூட்டர் ராக் - 2
 7. ரோலிங் சேர் - 36
 8. இன்ஸ்ட்ரக்ஷன் போர்ட் - 6
 9. டேபிள் (ஸிங்லைட் டிராடர்) - 1
 10. அர் கண்டிஷனர் - 2
 11. சி.டி.வி கேமரா - 2
 12. டஸ்ட் பின் - 1
 13. யூபி.எஸ் - 1
 14. ஸ்டீல் ராக் (சுட்டில்) - 1
 15. பிளாஸ்டிக் சேர் - 1
 16. வெய்ட் போர்ட் - 1



sri venkateshwarra
College of Engineering & Technology

ASPIRE TO EXCEL
Aryur, Puttucherry-603 102.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
OS LAB

STOCK FOR THE MONTH - January 2025 DATE: 7/2/25

S.NO	CLASST.	PAGE NO:	NAME OF THE ITEMS	OP.	REC.	USE.	BAL.	REMARKS
				24	-	-	24	
1	ASSET	1	PC (Desktop, KEYBOARD & Mouse	1	-	-	1	
2	ASSET	2	Network Rack	2	-	-	2	
3	ASSET	3	NETwork Switch(24Port)	5	-	-	5	
4	ELEC.	42	Light Fitting	8	-	-	8	
5	ELEC.	43	Fan	2	-	-	2	
6	FUR.	44	Computer Rack	24	-	-	24	
7	FUR.	46	Rolling Chair	1	-	-	1	
8	FUR.	46	Table (plain)	5	-	-	5	
9	FUR.	47	Instruction Board	1	-	-	1	
10	ASSET	48	Writing White Board	1	-	-	1	
11	ELEC	49	Dot Matrix Printer	1	-	-	1	
12	FUR.	50	Table(Single side Drawer)	2	-	-	2	
13	ASSET	51	Air Conditioner	2	-	-	2	
14	ASSET	52	CCTV Camera	1	-	-	1	
15	ASSET	53	Dust Bin	1	-	-	1	
16	ASSET	54	UPS	1	-	-	1	
17	ASSET	56	Steel Rack(Small)	1	-	-	1	
18	FUR.	55	PlasticChair	1	-	-	1	
19	ASSET	57	White Board	10	-	-	10	
20	ASSET	58	Screen Cloth					

S. P. Reddy
LABINSTRUCTOR

P. Ramesh
HODcum DEAN ACADEMIC

K. Ramesh
OM

K. Ramesh
PRINCIPAL



sri venkateshwarraa
College of Engineering & Technology

ASPIRE TO EXCEL

Ariyur, Puducherry-605 102.



STOCK REGISTER, STUDENT AND STAFF ENTRY REGISTER

Sign	Date	FACULTY NAME	SYS NO	IN TIME	OUT TIME	Sign
City	29/11/24	S. PAVITHRA	E25	9.25	4.20	f. D. A
Sign	29/11/24	S. VINITHA	E24	9.30	4.30	S. Vijay
f. D. A	29/11/24	D. N. ABIRAMI	E26	9.30	4.30	&
&	29/11/24	V. SARANYA	E27	9.30	4.30	V. Saranya
&	29/11/24	L. SATHIYA	E28	9.30	4.30	L. Sathya
&	30/11/24	G. Rajeswari	E28	9.30	12.30	Liba
City	30/11/24	V. SARANYA	E27	9.30	12.30	V. Saranya
Sign	30/11/24	M. Lavanya	E29	9.30	12.30	M. Lavanya
Sign	3/12/24	D. N. ABIRAMI	E26	9.30	4.30	&
&	3/12/24	S. PAVITHRA	E25	9.30	4.30	f. D. A
f. D. A	3/12/24	M. Lavanya	E29	9.50	4.30	M. Lavanya
City	3/12/24	S. VINITHA	E24	9.55	4.30	S. Vijay
&	3/12/24	K. Andal	E23	9.55	4.30	City
&	4/12/24	S. VINITHA	E24	9.51	4.30	Vijay
f. D. A	4/12/24	S. PAVITHRA	E25	9.50	4.30	f. D. A
&	4/12/24	K. Andal	E23	9.53	4.30	City
&	4/12/24	V. SARANYA	E27	9.53	4.30	V. Saranya
ole	4/12/24					
&	5/12/24	V. SARANYA	E24	9.30	4.30	V. Saranya
&	5/12/24	L. SATHIYA	E28	9.30	4.30	L. Sathya
&	5/12/24	S. VINITHA	E24	9.30	4.30	S. Vijay
f. D. A	5/12/24	S. PAVITHRA	E25	9.30	4.30	f. D. A
&	6/12/24	V. SARANYA	E27	9.30	4.30	V. Saranya
&	6/12/24	S. VINITHA	E24	9.30	4.30	Vijay
&	6/12/24	M. Andal	E23	10.00	1.00	City
&	6/12/24	S. PAVITHRA	E25	9.30	4.30	f. D. A

Date	Faculty Name	Sys	Time	Start Time	Sign
01/12/25	V. Saranya	E27	10:15	12:15	V. Saranya
01/12/25	K. Andal	E23	10:30	12:15	Chy
01/12/25	S. Vinitha	E24	11:40	1:20	S. Vey
01/12/25	d. sathya	E28	10:30	12:15	d. sathya
01/12/25	V. Saranya	E27	10:10	12:15	V. Saranya
01/12/25	K. Andal	E23	10:20	12:15	Chy
01/12/25	d. sathya	E28	10:25	12:15	d. sathya
01/12/25	S. Vinitha	E24	10:30	1:45	S. Vey
01/12/25					
01/12/25	S. parvitha	E25	10:30	1:45	S. Parit
01/12/25	K. Andal	E23	10:35	12:15	Chy
01/12/25	V. Saranya	E27	10:55	12:15	V. Saranya
01/12/25	S. parvitha	E25	10:20	12:15	S. Parit
01/12/25	d. sathya	E28	10:30	4:30	d. sathya
01/12/25	S. Vinitha	E24	10:45	2:40	S. Vey
01/12/25	K. Andal	E23	10:40	12:15	Chy
01/12/25	V. Saranya	E27	10:30	12:30	V. Saranya
01/12/25	S. Vinitha	E24	11:20	2:30	S. Vey
01/12/25	S. parvitha	E25	11:30	12:30	S. Parit
01/12/25	d. sathya	E28	11:30	2:20	d. sathya
01/12/25	V. Saranya	E27	10:15	12:15	V. Saranya
01/12/25	K. Andal	E23	10:20	12:20	Chy
01/12/25	S. Vinitha	E24	11:30	2:50	S. Vey
01/12/25	d. sathya	E28	11:15	12:30	d. sathya
01/12/25	S. Vinitha	E24	11:40	2:30	S. Vey

9/10/24

DATE 9/10/24
DAY Wednesday

	Student Name	Sys no	in time	out time	Sign
01.	J. Narsija	013	9:30	4:30	J. Narsija
02.	J. Arifa	028	9:30	4:30	Arifa
03.	A. Pabirahmul Baseera	027	9:30	4:15	A. Pabirahmul
04.	V. Shanmuganathan	Lap	9:30	12:15	V. Shanmuganathan
05.	K. Gowrigani	Lap	9:30	12:15	K. Gowrigani
06.	M. Sridharanya	E08	9:30	12:15	M. Sridharanya
07.	Aravind Kumar Chaudry	E09	9:30	12:15	Aravind Kumar
08.	P. Sharvesh	Lap	9:30	12:15	P. Sharvesh
09.	P. Shanini	0518	9:30	12:15	P. Shanini
10.	R. Datchany	Lap	9:30	12:15	R. Datchany
11.	P. Hariprasath	0517	9:40	4:30	P. Hariprasath
12.	T. Muthumaran	Lap	9:40	4:30	T. Muthumaran
13.	Niranjana . R	E03	9:40	4:30	Niranjana . R
14.	Vithya . A	0521	9:40	4:30	Vithya . A
15.	Suetha . M	0520	9:40	4:30	Suetha . M
16.	B. Vijayalaxmi	0518	9:40	4:30	B. Vijayalaxmi
17.	Sabarathnan . S	E06	10:14	4:30	Sabarathnan . S
18.	M. Kannan	LAP	9:30	12:15	M. Kannan
		D30	11:35	12:15	M. Kannan

10/10/24

Wednesday

1.	B. Vijayalaxmi	E06	9:30	4:30	B. Vijayalaxmi
2.	S. Sabarinathan	Lap	9:30	4:30	S. Sabarinathan
3.	K. Aravind Kumar	E08	9:30	4:30	K. Aravind Kumar
4.	V. Shanmuganathan	Lap	9:30	4:30	V. Shanmuganathan
5.	K. Gowrigani	Lap	9:30	4:30	K. Gowrigani
6.	J. Rithega	Lap	9:30	4:30	J. Rithega
7.	T. Muthumaran	Lap	2:30	2:45	T. Muthumaran
8.	V. Nandhini Devi	D29	2:40	4:30	V. Nandhini Devi
9.	M. Sridharanya	E03	2:40	4:30	M. Sridharanya
10.	E.V. Aravindan	11	2:40	4:30	E.V. Aravindan

III - A

11/1/25
Day Monday

S.NO	Student Name	Sys No	in time	out time	Sign
1	V. Sandhya	D25	1:10	4:30	V.S
2	S. Gayatri	D24	1:10	4:30	Gf
3	S. Keerthana . S	D23	1:10	4:30	Ke
4	A. Jayasri	D22	1:10	4:30	Jay
5	Viswa	D	1:10	4:30	Vis
6	Vasanthan Prin ja Vasanthan	D	1:10	4:30	Vas
7	Thirukumar . S	D	1:10	4:30	Thir
8	Mohan Kumar	D	1:10	4:30	Moh
9	Kaishina Kumar	D	1:10	4:30	Kai
10	Jagan sundar	D	1:10	4:30	Jag
11	Ravithesh Kumar	D	1:10	4:30	Rav
12	S. Ramya	D21	1:10	4:30	Ram
13	H. Sandhya	D27	1:10	4:30	Sand
14	P. Kavija	D28	1:10	4:30	Kav
15	BHOVANESH . V	D22	1:10	4:30	Shu
16	Atash - V	D23	1:10	4:30	At
17	Dhinesh Kumar	D24	1:10	4:30	Dh
18	S.R. Jai Krishnan	D25	1:10	4:30	Jai
19	Jeena . S	D26	1:10	4:30	Je
20	S. Sabarish	D30	1:10	4:30	Sab
21	S. Yuvadevi	D08	1:10	4:30	Yuv
22	S. Deepa	0813	1:10	4:30	Deep
23	P. Priya	A26	1:10	4:30	Pri
24	K. Sangavi	19	1:10	4:30	Sangavi
25	M. Sangeetha	26	1:10	4:30	Sangth
26	M. Loubana	25	1:10	4:30	Lou
27	M. Najwa	18	1:10	4:30	Naj
28	Kannan	D05	1:10	4:30	Kan
29	Gokulakrishnan	2004	1:10	4:30	Gok



SRI VENKATESHWARRA
ARIYUR,
FIXED ASSET

Ledger Head DELL - DESKTOP

ARIYUR,
FIXED ASSET

GROUP OF INSTITUTIONS
PUDUCHERRY - 605 102.

REGISTER - EQUIPMENTS

(Handwritten signature)

Date	Indent No.	Description / Accessories	Make	Model
		DELL PC (Monitor, Keyboard, Mouse)		
		LENOVO PC Mouse to 20000 CP Lab		
		<i>Checked</i>		
		<i>Checked</i>		
		Received from OS Lab		
		<i>Checked</i>		
		<i>Checked</i>		
		Temporary Transf to Language Lab		
		<i>Checked</i>		
		Transf to CP Lab		
		<i>Checked</i>		
		Transf to Science Room		
		<i>Checked</i>		
		Transf to 1000 Gram School		

Serial No.	Quantity in Nos.			Signature			Remarks
	Recd	Transf	Balance	Dept. C.	MOO	Accoun	
	30		30				
	5		35				
			35				
	1		36				
			36				Received from OS Lab
			36				
	3		33				
			33				
	8		25				
			25				
	25		0				
			0				
	0		30				

Ledger Head DELL - DESKTOP

Date	Indent No.	Description / Accessories	Make	Model	Serial No.	Quantity in Nos.			Deptic.	HOD	Signature	Tech	Accounts	Remarks
						Recd.	Used/Transf.	Balance						
26/06/17		DELL PC (Desktop, Keyboard, Mouse)				2	-	2						
26/06/17		Lenovo PC (Desktop, Keyboard, Mouse)				27	-	29						Received from CP Lab
26/06/17		Lenovo PC				3	-	32						
		Moved to DBNS Lab				-	1	31						
		Moved to CP Lab				-	2	29						Not computing Server Purpose
31/1/18		Moved to II Floor Room. 24												
		Hardware Lab (3 months for PNRKY class)												
5/1/18		Moved to IV Floor Room. 33 (PNRKY Biometric Room)				1		28						
24/1/18		Received from Hardware Lab [Pmky class]				1		27						
		Received from Pmky Biometric Room				1		28						
		Received from Pharmacy College System				4		29						
		One System transferred to ladies Staff room temporarily				1		32						
21.3.19		Checked						32						
25.03.19		One System Transferred to ladies Staff Room Temporarily				1		31						
		Transferred to CP Lab				6		25						
31/3/2020		Checked						25						
09/11/23		Moved to server room				25		0						
10/11/23		Intial is left over (NUC)				0		30						