



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
Melathediyoar, Tirunelveli – 627152

Department of Computer Science and Engineering

COURSE PLAN
(Regulation 2018)

Version: 1

Updated on:

No. of pages:

Subject Name & Code	Computer Networks & 503006
Course Type	Core
Programme	B.E.CSE (UG)
Year/Semester/Section	II Year / IV Semester
Nature of Course/Credit	Theory
Course Coordinator	Dr. M. Vargheese, Prof / CSE

Vision and Mission of the Institute

Vision

Emerge as a pioneer institute inculcating engineering education and skills, research, values and ethics.

Mission

- **To achieve greater heights of excellence in technical knowledge and skill development through innovative teaching and learning practices.**
- **To develop the state of art infrastructure to meet the demands of technological revolution.**
- **To improve and foster research in all dimensions for betterment of society.**
- **To develop individual competencies to enhance innovation, employability and entrepreneurship among students.**
- **To instill higher standards of discipline among students, inculcating ethical and moral values for societal harmony and peace**

Vision and Mission of the Department

Vision

To emerge as a preeminence program to produce quality Computer Science and Engineering graduates.

Mission

- ☐ **To enhance professional and entrepreneurial skills through industry institute interaction to enable them in getting better placement**
- ☐ **To promote research and continuing education**
- ☐ **To train the students according to their discipline to meet dynamic needs of the society**

1. Pre-requisite (if any) :

Basic idea about Computer Peripherals

2. COURSE DESCRIPTION:

Computer networking is an engineering discipline that aims to **study** and analyze the communication process among various computing devices or **computer** systems that are linked, or networked, together to exchange **information** and share resources.

A **computer network** is a set of **computers** connected together for the purpose of sharing resources. The most common resource shared today is connection to the Internet. Other shared resources can include a printer or a file server. The Internet itself can be considered a **computer network**.

Computer network is a digital telecommunications network which allows nodes to share resources. In computer networks, computing devices exchange data with each other using connections (data links) between nodes. These data links are established over cable media such as twisted pair or fiber-optic cables, and wireless media such as Wi-Fi.

3. CAREER OPPORTUNITIES: (ONE OR TWO)

- 1) Network Administrator
- 2) System Manager

4. SYLLABUS

503006	COMPUTER NETWORKS				L	T	P	C
					3	0	0	3
Programme:	B.E - CSE			Sem:	4	Category:		CS
Prerequisite:								
Aim:	To introduce the concepts, terminologies and technologies used in modern days' data communication and computer networking.							
Course Objectives:								
1	To understand the concepts of physical layer							
2	To study the concepts of data link layer							
3	To introduce function with network layer							
4	To make the students get familiarized with transport lyer							
5	To study the concepts of application layer							

UNIT – I INTRODUCTION AND PHYSICAL LAYER 9

Introduction: Data Communication-Network types - Reference models: The OSI reference model – The TCP/IP reference model

The Physical layer: Data and Signals-Periodic analog Signals – Digital Signals-Transmission Impairments-Digital Transmission-Analog transmission.

UNIT - II DATA LINK LAYER 9

Introduction to Data link layer- Error detection and correction: Introduction-Block Coding-Cyclic Codes-Checksum –Data Link Control: DLC Services- Framing - Flow and Error control-Connectionless and Connection Oriented-Data Link Layer Protocols: Simple Protocol-Stop and Wait Protocol-HDLC

UNIT - III NETWORK LAYER 9

Network layer services – Packet switching – Network layer performance - IPv4: Address space – Classful addressing – Classless addressing – Forwarding of IP packets – Network layer protocols: Internet Protocol – Unicast routing: Introduction - Routing algorithms – Unicast routing protocols - IPv6 addressing: Representation – Address space

UNIT - IV TRANSPORT LAYER 9

Introduction: Transport Layer Services – Transport layer protocols-Transmission control protocol- Stop and wait protocol – Go back N protocol – Selective repeat – Bidirectional protocols - Services and Ports Number - User datagram protocol: User datagram - UDP Services - UDP Applications - Transmission control protocol

UNIT - V APPLICATION LAYER 9

Introduction – Client server programming – Standard client server protocols – interactive programming in c- secure shell- Control connections – Data connections – Electronic mail: Architecture – Web based email – Telnet: Local Vs Remote Logging – Domain Name System: Name space – DNS in Internet – Resolution

Total: 45 Periods

5. Course Outcome (COs): CO1.....CO5 (should follow Bloom's taxonomy)

Course Outcomes: After successful completion of the course, the students should be able to		
COs	CO Statements	POs
CO1 :	Understand the basic concepts of Physical Layer and its functions	1,7
CO2 :	Understand the concept of Data Link Layer and its functions	3, 10, 12
CO3 :	Analyze the various methods in network layer and its functions.	3, 5, 12
CO4 :	Analyze the different techniques on Transport layer and its functions	1, 4, 10
CO5 :	Understand the concept of various methods in Application layer	1, 7, 10

6. Instructional Learning outcomes (unitwise/assignments/tutorials)

Unit	Assessment Procedure
I	The outcome will be assessed through Attendance, Assignment-1, Class test -1, MCQ Test, Continuous Assessment Test-I.
II	The outcome will be assessed through Attendance, Assignment-2, Class test -2, MCQ Test, Continuous Assessment Test-I & II
III	The outcome will be assessed through Attendance, Assignment-3, Class test -3, MCQ Test, Continuous Assessment Test- II
IV	The outcome will be assessed through Attendance, Assignment-4, Class test -4, MCQ Test, Continuous Assessment Test-III
V	The outcome will be assessed through Attendance, Assignment-5, Class test -5, MCQ Test, Continuous Assessment Test-III

7. Program Educational Objectives (PEOs) (max. 4)

S.No	Topic	PEOs
PEO1	Fundamental Knowledge	Graduates will be able to perform in technical and managerial roles ranging from design, development and problem solving to suit to the industrial needs

PEO2	Career Development	Graduates will be able to successfully pursue higher education and also Graduates will have the ability to adapt, contribute and innovate new technologies in different domains of computer science & Engineering
PEO3	Social Identity	Graduates will be ethically and socially responsible engineers in computer science & Engineering disciplines

8. Program Outcomes (POs) (12 attributes)

PO's No	KNOWLEDGE	STATEMENTS
1	Engineering Knowledge:	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2	Problem Analysis:	Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3	Design / Development of Solutions:	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	Conduct Investigations of Complex Problems:	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5	Modern Tool usage:	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an UN 2 of the limitations.

6	The Engineer and Society:	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7	Environment and Sustainability:	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8	Ethics:	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9	Individual and Team Work:	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	Communication:	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11	Project Management and Finance:	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12	Life-long Learning:	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

9. Program Specific Outcomes (PSOs) (max.3)

Graduating student shall be able to:

PSO1	Proficient and Innovative with a strong cognizance in the IOT, through the application of acquired knowledge and skills.
PSO2	Design and Implement IOT based solutions for improving operational efficiency by investigating existing industrial environment.

10. CO and PO mapping (3 point scale)

COURSE OUTCOMES VS PROGRAM OUTCOMES MAPPING

Course Outcomes	Program Outcomes												Program Specific Outcomes	
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
CO 1	2						1						1	
CO 2			2							1		1		1
CO 3			2		2							2	1	
CO 4	2			2						2				1
CO 5	2						2			2		2		1

Enter correlation levels 1, 2 & 3 define as: 1-low, 2- medium, & 3-high

COURSE OUTCOME & PROGRAM OUTCOME JUSTIFICATION

MAPPING	Correlation – Strong /Medium /Low	JUSTIFICATION
CO1-PO1	2	Understand the concept of Networking
CO1-PO7	1	Understand different types of networks
CO1-PSO2	1	Remembering the networking fundamentals
CO2-PO3	2	Analyse the problems during data transmission
CO2-PO10	1	Understand the types of communication errors
CO2-PO12	1	Analyse the basic error detection and correction techniques
CO2-PSO2	1	Analyse the solution for avoiding data errors
CO3-PO3	2	Understand how the IP addresses are assigned to PC in network
CO3-PO5	2	Analyse the problems in IP assignment and routing

CO3-PO12	2	Understand how the data is transmitted in a network and analyse the routing techniques
CO3-PSO1	1	Analyse IP configuration in IPV4 and IPV6
CO4-PO1	2	Understand the basic functionalities of TCP and UDP
CO4-PO4	2	Study about connection oriented and connection less transmission
CO4-PO10	2	Understand the communication between two nodes in various situations
CO4-PSO2	1	Develop the skill to solve routing problems
CO5-PO1	2	Understand the concept of Web
CO5-PO7	2	Study about DNS
CO5-PO10	2	Study about Email and HTTP
CO5-PO12	2	Understand the functionalities of various file transfer protocols in Internet
CO5-PSO2	1	Study about Internet protocols and its functions

11. Text Book s & Reference Books

S. No.	Name of the Book	Author/Publisher/Year/ Edition	Web link
1	Data communication and networking (Text Book)	1. Behrouz A. Forouzan, Fifth Edition, McGraw-Hill Education (India) Pvt. Ltd. 2013	http://library.aceondo.net/ebooks/Computer_Science/Data_Communication_and_Networking_by_Behrouz.A.Forouzan_4th.edition.pdf
2	Data and Computer Communications (R1)	William S.Stallings, Ninth Edition,Prentice-Hall,2011	https://www.academia.edu/35036038/DATA_AND_COMPUTER_COMMUNICATIONS_EIGHTH_EDITION_SOLUTIONS

3	Computer Networks (R2)	Tanenbaum and David Wetherall, Fifth Edition, Prentice-Hall, 2011	http://iips.icci.edu.iq/images/exam/Computer-Networks---A-Tanenbaum---5th-edition.pdf
4	Computer Networks, A Systems Approach (R3)	L.Peterson and B.Davie, Fifth Edition, Morgan Kaufman, 2012	https://cseweb.ucsd.edu/~gmporter/classes/wi19/cse124/courseoverview/compnetworks.pdf

12. Web Resources: (other than NPTEL, SWAYAM and other e learning resources)

S.No.	Topic	Web link
1	Networking Fundamentals	https://www.youtube.com/watch?v=cNwEVYkx2Kk
2	Error Correcting Codes	https://www.youtube.com/watch?v=eQgRDdBD5Os
3	Routing Algorithms	http://ecomputernotes.com/computernetworkingnotes/routing/routing-algorithms
4	TCP	https://www.extrahop.com/resources/protocols/tcp/
5	HTTP and FTP	https://gradeup.co/application-layer-protocols-dns-smtp-pop-ftp-http-i-ba1194bd-c5ab-11e5-9dcb-5849de73f8e1

13. E – learning videos/NPTEL/ SWAYAM and other resources (IMPORTANT!)

1	OSI Model	https://www.youtube.com/watch?v=vv4y_uOneC0
2	Hamming Code	https://www.youtube.com/watch?v=N8Yy0-4YMS4
3	Subnetting	https://www.youtube.com/watch?v=87TiQ6mIy9w
4	Distance Vector Routing	https://www.youtube.com/watch?v=dmS1t2twFrI

5	DNS	https://www.youtube.com/watch?v=mpQZVYPuDGU
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14. Magazines & Journals (one or two)

<https://www.journals.elsevier.com/computer-networks>

15. Lesson Plan

S.no	Unit	Topic to be covered	Hours need	Mode of teaching (BB/PPT/Other)	Text/ Ref. book
PHYSICAL LAYER					
1	I	Introduction to Network	1	BB / PPT	T1
2		Data Communication-Network types	1	BB / PPT	T1
3		Reference models: The OSI reference model	2	BB / PPT	T1
4		The TCP/IP reference model	1	BB / PPT	T1
5		The Physical layer: Data and Signals	1	BB / PPT	T1
6		Periodic analog Signals – Digital Signals	1	BB / PPT	T1
7		Transmission Impairments-Digital Transmission	1	BB / PPT	T1
8		Analog transmission	1	BB / PPT	T1
DATA LINK LAYER					
10	II	Introduction to Data link layer- Error detection and correction	1	BB / PPT	T1
11		Introduction-Block Coding-Cyclic Codes - Checksum	2	BB / PPT	T1
12		Data Link Control: DLC Services - Framing	1	BB / PPT	T1
13		Flow and Error control	1	BB / PPT	T1
14		Connectionless and Connection Oriented	1	BB / PPT	T1
15		Data Link Layer Protocols: Simple Protocol	1	BB / PPT	T1

16		Stop and Wait Protocol	1	BB / PPT	T1
17		HDLCL	1	BB / PPT	T1
NETWORK LAYER					
19	III	Network layer services – Packet switching	1	BB / PPT	T1
20		IPv4: Address space – Classful addressing – Classless addressing	1	BB / PPT	T1
21		Forwarding of IP packets	1	BB / PPT	T1
22		Network layer protocols: Internet Protocol	1	BB / PPT	T1
23		Unicast routing: Introduction	1	BB / PPT	T1
24		Routing algorithms	2	BB / PPT	T1
25		Unicast routing protocols	1	BB / PPT	T1
26		IPv6 addressing: Representation – Address space	1	BB / PPT	T1
TRANSPORT LAYER					
27	IV	Introduction: Transport Layer Services	1	BB / PPT	T1
28		Connectionless and Connection-oriented Protocols	1	BB / PPT	T1
29		Simple protocol – Stop and wait protocol	1	BB / PPT	T1
30		Go back N protocol	1	BB / PPT	T1
31		Selective repeat – Bidirectional protocols	2	BB / PPT	T1
32		Services and Ports Number - User datagram protocol: User datagram	1	BB / PPT	T1
33		UDP Services - UDP Applications	1	BB / PPT	T1
34		Transmission control protocol	1	BB / PPT	T1
APPLICATION LAYER					
35	V	Introduction – Client server programming	1	BB / PPT	T1
36		Standard client server protocols	1	BB / PPT	T1
37		WWW and HTTP	1	BB / PPT	T1
38		FTP: Two connections – Control connections – Data connections	1	BB / PPT	T1

39		Electronic mail: Architecture - Web based email	2	BB / PPT	T1
40		Telnet: Local Vs Remote Logging	1	BB / PPT	T1
41		Domain Name System: Name space	1	BB / PPT	T1
42		DNS in Internet – Resolution	1	BB / PPT	T1
43		Demonstrate the packet transmission by using packet tracer. How to analyse the routing problems? Hybrid Networks	4*	BB / PPT	

**Beyond the syllabus topics*

16. Class Time Table

Time	9.00to 10.00	10.00to 11.00	11.00 To 11.20	11.20to 12.10	12.1 0to 1.00	1.00 To 2.00	2.00 to 2.50	2.50to 3.40	3.40 to 3.50	3.50to 4.40
Mon	EM-III(Tes t)	MES	BREAK	SE	JP	LUNCH	CSDT II		BREA K	EM-III
Tue	CN(Test)	JP		EM-III	MES		CN LAB			CN LAB
Wed	DAA(Test)	DAA		JP	MES		DAA	SE		Library
Thu	JP(Test)	EM-III		CN	DAA		MES LAB			MES LAB
Fri	SE(Test)	DAA		CN	SE		JP Lab			JP Lab

17. Course Time Table

Time	9.00to 10.00	10.00to 11.00	11.00 To 11.20	11.20to 12.10	12.10to 1.00	1.00 To 2.00	2.00 to 2.50	2.50to 3.40	3.40 to 3.50	3.50to 4.40
Mon			BREAK			LUNCH			BREA K	

Tue	CN(Test)								
Wed									
Thu				CN					
Fri				CN					

18. Content Delivery Methodologies (Chalk and Board, Powerpoint presentations, Videos, E-content etc.)

19. Assignments

Assignment No.	Description	Submission due
1	Comparison of OSI layer with TCP/IP Reference Model	
2	Hamming Code with different inputs	
3	Subnetting	
4	Application of TCP with real time example	
5	Protocols used in Internet	

20. Assignment Rubrics:

Quality	Marks
Submission on Date	2
Understanding	3
Solving skill/ Presentation	3
End results with correct units conversions / Conclusion	2

21. Mapping of CO to Assignment:

CO's	CO - STATEMENTS	A1	A2	A3	A4	A5
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CO1:	Understand the basic concepts of Physical Layer and its functions	2	-	-	-	-
CO2:	Understand the concept of Data Link Layer and its functions	-	2	-	-	-
CO3:	Analyze the various methods in network layer and its functions.	-	-	2	-	-
CO4:	Analyze the different techniques on Transport layer and its functions	-	-	-	2	-
CO5:	Understand the concept of various methods in Application layer	-	-	-	-	2

22. Assessment Methodologies:

Assessment Tool			Description
Direct Assessment (80%)	Internal Test	40%	CAT – I, CAT – II, CAT – III average will be considered for 15 marks, MCQ 10 marks, Assignments-5 marks, Attendance 5 marks. Class test 5 marks -
	Assignments		
	End semester Examination	60%	100 % for End semester Examination -
Indirect Assessment (20%)	Course End Survey (80%)		At the end of Course completion will be evaluated Enclosed separately
	Exit Survey (20 %)		At the end of the degree completion will be evaluated

23. Distribution of portions for assessment tests

Assessments	Portion Covering Unit	% of weightage
CAT – I	Unit I & unit II (50%)	12.5
CAT – II	Unit II (50%) & Unit III	12.5
CAT - III	Unit IV & V	12.5
Assignments	Unit – I to Unit-V	12.5
Class Test	Unit – I to Unit-V	12.5
MCQ	Unit – I to Unit-V	25.0
Attendance		12.5
End Semester	Unit - I to V	100

24. Mark Allotment for CO Assessment:

Cos	CA T - I	CA T - II	CA T - III	Assignmen t	MCQ	Attendanc e	Class Test	End Semeste r
CO1	30			5	10	5	5	20
CO2	20	20		5	10	5	5	20
CO3		30		5	10	5	5	20
CO4			30	5	10	5	5	20
CO5			20	5	10	5	5	20
AVERAGE	5	5	5	5	10	5	5	100

25. Lecture Notes**- Enclosed****26. Content beyond syllabus**

- 1) Demonstrate the packet transmission by using packet tracer.
- 2) How to analyse the routing problems?
- 3) Hybrid Networks

27. Question Bank**- Enclosed****28. End Semester questions papers****- Enclosed**

STUDENT NAME LIST – II CSE (B)			
1.	9522210304 9	Nigila Kannan	
2.	9522210305 0	Nimesh Varshan S	
3.	9522210305 1	PandiSelvam J	
4.	9522210305 2	Prabhu P	
5.	9522210305 3	Prakash Rajan K	
6.	9522210305 4	Prakash S	
7.	9522210305 5	Prasanna T	
8.	9522210305 6	Rajkumar M	
9.	9522210305 7	Rakesh S	
10	9522210305 8	Ram Kumar G	
11	9522210305 9	Ramakrishnan N	
12	9522210306 0	Ramalakshmi S	
13	9522210306 1	Ravikumar C	
14	9522210306 2	Renukudevi B	
15	9522210306 3	Rosan N	
16	9522210306 4	Rose Mary J	
17	9522210306 5	Sanjay Kumar R	
18	9522210306 6	Sankar R	
19	9522210306 7	Sathishkumar C	
20	9522210306 8	Sathishkumar R	
21	9522210306 9	Selvapriya R	

22	9522210307 0	Selvaraj S	
23	9522210307 1	Sembulingam S	
24	9522210307 2	Senthur Pandian T	
25	9522210307 3	ShanmugaPriya M	
26	9522210307 4	Siva Balan T	
27	9522210307 5	Sivakumar S	
28	9522210307 6	Sivasankari M	
29	9522210307 7	Sobiya A	Long Absent
30	9522210307 8	Sri Ram N	
31	9522210307 9	Srivarshini R	
32	9522210308 0	Suba Sangeetha S	
33	9522210308 1	Subalakshmi B	
34	9522210308 2	SudharshaPraba U	
35	9522210308 3	Valagurunathan S	
36	9522210308 4	Vignesh G	
37	9522210308 5	Vignesh T	
38	9522210308 6	Vishnu Priya S	
39	9522210308 7	Viswajith N	
40	9522210308 8	Yogalakshmi K	
41	9522210330 1	Mahalingam K	0
42	9522210330 2	Manjunath D	60
43	9522210330 3	Mohammed Abdulla A	72

44	9522210330 4	Nirmal Kumar S	66
45	9522210330 5	Saravana Kumar S	50
46	9522210330 6	SimsonChelladurai D	50
47	9522210330 7	Singaravelan	60

Continuous Assessment Test - I Marks

S.No	Reg. NO	STUDENTS NAME	CAT 1 MARK
1	95222103049	NigilaKannan	AB
2	95222103050	NimeshVarshan S	AB
3	95222103051	PandiSelvam J	50
4	95222103052	Prabhu P	74
5	95222103053	Prakash Rajan K	56
6	95222103054	Prakash S	0
7	95222103055	Prasanna T	0
8	95222103056	Rajkumar M	50
9	95222103057	Rakesh S	50
10	95222103058	Ram Kumar G	0
11	95222103059	Ramakrishnan N	62
12	95222103060	Ramalakshmi S	0
13	95222103061	Ravi Kumar C	60
14	95222103062	Renukadevi B	60
15	95222103063	Rosan N	0
16	95222103064	Rose Mary J	50
17	95222103065	Sanjay Kumar R	58
18	95222103066	Sankar R	50
19	95222103067	Sathishkumar C	0
20	95222103068	Sathishkumar R	0
21	95222103069	Selvapriya R	30
22	95222103070	Selvaraj S	26
23	95222103071	Sembulingam S	0
24	95222103072	SenthurPandian T	42
25	95222103073	ShanmugaPriya M	34
26	95222103074	Siva Balan T	50
27	95222103075	Sivakumar S	60
28	95222103076	Sivasankari M	76
29	95222103078	Sri Ram N	66
30	95222103079	Srivarshini R	82
31	95222103080	SubaSangeetha S	58
32	95222103081	Subalakshmi B	0
33	95222103082	SudharshaPraba U	50

34	95222103083	Valagurunathan S	42
35	95222103084	Vignesh G	30
36	95222103085	Vignesh T	40
37	95222103086	Vishnu Priya S	78
38	95222103087	Viswajith N	40
39	95222103088	Yogalakshmi K	0
40	95222103301	Mahalingam K	0
41	95222103302	Manjunath D	60
42	95222103303	Mohammed Abdulla A	72
43	95222103304	Nirmal Kumar S	66
44	95222103305	Saravana Kumar S	50
45	95222103306	SimsonChelladurai D	50
46	95222103307	Singaravelan	60

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



Melathediyoar, Tirunelveli – 627 152, Tamil Nadu
Approved by AICTE and Recognized by UGC section 2f & 12 B
Accredited by NAAC with A+, Affiliated to Anna University
An ISO 9001:2015 Certified Institution



Department of Computer Science and Engineering

DATE:21.02.2023

CIRCULAR

This is to inform that Remedial Classes will be conducted for the slow learners of II Year CSE'B' of Computer Science and Engineering students to improve their learning skills and academic performance. The slow learners were identified based on the performance of the Continuous Assessment Test I. The students concerned are advised to attend the remedial classes from 22.02.2023 to 28.02.2023 at 5:00 P.M. to 6:30 P.M. The remedial class schedule will be displayed in the department notice board.

HOD/CSE

Copy to;

- 1. The Principal**
- 2. Department Notice Board**
- 3. II-year classroom**

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Department of Computer Science and Engineering

CAT I REMEDIAL CLASS TIMETABLE FOR SLOW LEARNERS

Batch : 2021– 2025

Academic year : 2022 – 2023 Even

Year / Sem : II / IV

Time : 5:00 P.M. to 6:30 P.M.

Venue : II Year CSE B Classroom

Date	Subject code & Name	Faculty Name	Signature
22.02.2023	501020 / Engineering Mathematics - III	Ms.Selvarathna,AP/Maths	
23.02.2023	503006 / Computer Networks	Dr. M. Vargheese, Prof / CSE	
24.02.2023	503007 / Design Analysis & Algorithm	Mrs.Jeyalakshmi,AP/CSE	
27.02.2023	503008 / Java Programming	Mrs. A. Enitha,AP/CSE	
28.02.2023	503010 / Micro Controller and Embedded Systems	Mrs.I.Paul Selvi,AP/ECE	

Class Advisor

HoD/CSE

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NAME LIST FOR SLOW LEARNERS

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks
S.NO	REG.NO	STUDENT NAME	CAT I MARKS(100)
1	95222103049	NigilaKannan	AB
2	95222103050	NimeshVarshan S	AB
3	95222103054	Prakash S	0
4	95222103055	Prasanna T	0
5	95222103058	Ram Kumar G	0
6	95222103060	Ramalakshmi S	0
7	95222103063	Rosan N	0
8	95222103067	Sathishkumar C	0
9	95222103068	Sathishkumar R	0
10	95222103069	Selvapriya R	30
11	95222103070	Selvaraj S	26
12	95222103071	Sembulingam S	0
13	95222103072	SenthurPandian T	42
14	95222103073	ShanmugaPriya M	34
15	95222103081	Subalakshmi B	0
16	95222103083	Valagurunathan S	42
17	95222103084	Vignesh G	30
18	95222103085	Vignesh T	40
19	95222103087	Viswajith N	40
20	95222103088	Yogalakshmi K	0
21	95222103301	Mahalingam K	0

Faculty In-Charge

HOD/CSE

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



Melathediyoar, Tirunelveli – 627 152, Tamil Nadu
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ATTENDANCE FOR REMEDIAL CLASS

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks

S.NO	REG.NO	STUDENT NAME	ATTENDANCE
1	95222103049	NigilaKannan	P
2	95222103050	NimeshVarshan S	AB
3	95222103054	Prakash S	P
4	95222103055	Prasanna T	P
5	95222103058	Ram Kumar G	P
6	95222103060	Ramalakshmi S	P
7	95222103063	Rosan N	P
8	95222103067	Sathishkumar C	P
9	95222103068	Sathishkumar R	P
10	95222103069	Selvapriya R	P
11	95222103070	Selvaraj S	P
12	95222103071	Sembulingam S	P
13	95222103072	SenthurPandian T	P
14	95222103073	ShanmugaPriya M	P
15	95222103081	Subalakshmi B	AB
16	95222103083	Valagurunathan S	P
17	95222103084	Vignesh G	P
18	95222103085	Vignesh T	P
19	95222103087	Viswajith N	P
20	95222103088	Yogalakshmi K	P
21	95222103301	Mahalingam K	AB

Faculty In-charge

HOD/CSE

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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ABSENTEES FOR REMEDIAL CLASS (ACTION TAKEN)

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks

S.NO	REG.NO	STUDENT NAME	ACTION TAKEN
1	95222103050	NimeshVarshan S	Informed to Parents
2	95222103081	Subalakshmi B	Informed to Parents

Faculty In-charge

HOD/CSE

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks

**Faculty
In-charge
HOD/CSE**

S.NO	TOPICS COVERED
1	Networks Types
2	OSI Model
3	TCP/IP reference model
4	Error detection and correction

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REMEDIAL CLASS IMPLEMENTATION

Subject code / Name	503006 / Computer Networks
Class involved	II year / IV Sem
Faculty in charge	Dr. M. Vargheese
Reason for arranging the remedial class	Weak students identified after Continuous Assessment Test I
Content to be taught	Unit I and 50% of Unit II (Important Questions)
Date and Venue of the class	23.02.2023 / II Year Class Room
Faculty to ensure the classroom is free and teaching aids are arranged for the class	Yes
Information to all the students of the class	Yes
HOD to ensure there are no other classes for the students involved on this date / time	No classes
Approved by HOD	
Percentage attendance of the remedial class	90%
Attendance detail is forward to HOD	Yes
Verification by HOD	

Continuous Assessment Test - II Marks

S.No	Reg. NO	STUDENTS NAME	CAT II MARK
1	95222103049	NigilaKannan	40
2	95222103050	NimeshVarshan S	AB
3	95222103051	PandiSelvam J	44
4	95222103052	Prabhu P	82
5	95222103053	Prakash Rajan K	64
6	95222103054	Prakash S	58
7	95222103055	Prasanna T	72
8	95222103056	Rajkumar M	66
9	95222103057	Rakesh S	74
10	95222103058	Ram Kumar G	70
11	95222103059	Ramakrishnan N	62
12	95222103060	Ramalakshmi S	AB
13	95222103061	Ravi Kumar C	64
14	95222103062	Renukadevi B	88
15	95222103063	Rosan N	70
16	95222103064	Rose Mary J	50
17	95222103065	Sanjay Kumar R	68
18	95222103066	Sankar R	50
19	95222103067	Sathishkumar C	50
20	95222103068	Sathishkumar R	72
21	95222103069	Selvapriya R	AB
22	95222103070	Selvaraj S	60
23	95222103071	Sembulingam S	84
24	95222103072	SenthurPandian T	58
25	95222103073	ShanmugaPriya M	44
26	95222103074	Siva Balan T	72
27	95222103075	Sivakumar S	68
28	95222103076	Sivasankari M	84
29	95222103078	Sri Ram N	68
30	95222103079	Srivarshini R	88
31	95222103080	SubaSangeetha S	54
32	95222103081	Subalakshmi B	AB
33	95222103082	SudharshaPraba U	64
34	95222103083	Valagurunathan S	AB

35	95222103084	Vignesh G	64
36	95222103085	Vignesh T	70
37	95222103086	Vishnu Priya S	86
38	95222103087	Viswajith N	AB
39	95222103088	Yogalakshmi K	AB
40	95222103301	Mahalingam K	52
41	95222103302	Manjunath D	86
42	95222103303	Mohammed Abdulla A	86
43	95222103304	Nirmal Kumar S	82
44	95222103305	Saravana Kumar S	70
45	95222103306	SimsonChelladurai D	54
46	95222103307	Singaravelan	74

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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Department of Computer Science and Engineering

DATE: 12.04.2023

CIRCULAR

This is to inform that Remedial Classes will be conducted for the slow learners of II Year CSE 'B' of Computer Science and Engineering students to improve their learning skills and academic performance. The slow learners were identified based on the performance of the Continuous Assessment Test II. The students concerned are advised to attend the remedial classes from 17.04.2023 to 20.04.2023 at 5:00 P.M. to 6:30 P.M. The remedial class schedule will be displayed in the department notice board.

HoD/CSE

Copy to;

- 4. The Principal**
- 5. Department Notice Board**
- 6. II-year classroom**

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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Department of Computer Science and Engineering

CAT II REMEDIAL CLASS TIMETABLE FOR SLOW LEARNERS

Batch : 2021– 2025

Academic year : 2022 – 2023 Even

Year / Sem : II / IV

Time : 5:00 P.M. to 6:30 P.M.

Venue : II Year CSE B Classroom

Date	Subject code & Name	Faculty Name	Signature
17.04.2023	501020 / Engineering Mathematics - III	Ms.Selvarathna, AP/Maths	
18.04.2023	503006 / Computer Networks	Dr. M. Vargheese, Prof / CSE	
19.04.2023	503008 / Java Programming	Mrs. A. Enitha, AP/CSE	
20.04.2023	503010 / Micro Controller and Embedded Systems	Mrs.I.Paul Selvi, AP/ECE	

Class Advisor

HoD/CSE

CAT I AND CAT II SLOW LEARNERS - ANALYSIS

S.NO	REG.NO	STUDENT NAME	CAT I	CAT II
1	95222103049	NigilaKannan	AB	40
2	95222103050	NimeshVarshan S	AB	AB
3	95222103054	Prakash S	0	58
4	95222103055	Prasanna T	0	72
5	95222103058	Ram Kumar G	0	70
6	95222103060	Ramalakshmi S	0	AB
7	95222103063	Rosan N	0	70
8	95222103067	Sathishkumar C	0	50
9	95222103068	Sathishkumar R	0	72
10	95222103069	Selvapriya R	30	AB
11	95222103070	Selvaraj S	26	60
12	95222103071	Sembulingam S	0	84
13	95222103072	SenthurPandian T	42	58
14	95222103073	ShanmugaPriya M	34	44
15	95222103081	Subalakshmi B	0	AB
16	95222103083	Valagurunathan S	42	AB
17	95222103084	Vignesh G	30	64
18	95222103085	Vignesh T	40	70
19	95222103087	Viswajith N	40	AB
20	95222103088	Yogalakshmi K	0	AB
21	95222103301	Mahalingam K	0	52

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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NAME LIST FOR SLOW LEARNERS

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks
S.NO	REG.NO	STUDENT NAME	CAT II MARKS(100)
1	95222103049	NigilaKannan	40
2	95222103050	NimeshVarshan S	AB
3	95222103051	PandiSelvam J	44
4	95222103060	Ramalakshmi S	AB
5	95222103069	Selvapriya R	AB
6	95222103073	ShanmugaPriya M	44
7	95222103081	Subalakshmi B	AB
8	95222103083	Valagurunathan S	AB
9	95222103087	Viswajith N	AB
10	95222103088	Yogalakshmi K	AB

Faculty In-Charge

HOD/CSE

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ATTENDANCE FOR REMEDIAL CLASS

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks

S.NO	REG.NO	STUDENT NAME	ATTENDANCE
1	95222103049	NigilaKannan	P
2	95222103050	NimeshVarshan S	P
3	95222103051	PandiSelvam J	P
4	95222103060	Ramalakshmi S	P
5	95222103069	Selvapriya R	P
6	95222103073	ShanmugaPriya M	P
7	95222103081	Subalakshmi B	AB
8	95222103083	Valagurunathan S	P
9	95222103087	Viswajith N	P
10	95222103088	Yogalakshmi K	P

Faculty In-charge

HOD/CSE

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ABSENTEES FOR REMEDIAL CLASS (ACTION TAKEN)

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks

S.NO	REG.NO	STUDENT NAME	ACTION TAKEN
1	95222103081	Subalakshmi B	Informed to Parents

Faculty In-charge

HOD/CSE

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks

**Faculty
In-charge
HOD/CSE**

S.NO	TOPICS COVERED
1	Flow and Error Control
2	HDLC
3	IP V4
4	Routing Algorithms

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)



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REMEDIAL CLASS IMPLEMENTATION

Subject code / Name	503006 / Computer Networks
Class involved	II year / IV Sem
Faculty in charge	Dr. M. Vargheese
Reason for arranging the remedial class	Weak students identified after Continuous Assessment Test I
Content to be taught	50 % of Unit II and Unit III (Important Questions)
Date and Venue of the class	18.04.2023 / II Year Class Room
Faculty to ensure the classroom is free and teaching aids are arranged for the class	Yes
Information to all the students of the class	Yes
HOD to ensure there are no other classes for the students involved on this date / time	No classes
Approved by HOD	
Percentage attendance of the remedial class	90%
Attendance detail is forward to HOD	Yes
Verification by HOD	

Continuous Assessment Test - III Marks

S.No	Reg. NO	STUDENTS NAME	CAT III MARK
1	95222103049	NigilaKannan	26
2	95222103050	NimeshVarshan S	52
3	95222103051	PandiSelvam J	50
4	95222103052	Prabhu P	20
5	95222103053	Prakash Rajan K	38
6	95222103054	Prakash S	54
7	95222103055	Prasanna T	42
8	95222103056	Rajkumar M	60
9	95222103057	Rakesh S	72
10	95222103058	Ram Kumar G	60
11	95222103059	Ramakrishnan N	16
12	95222103060	Ramalakshmi S	50
13	95222103061	Ravi Kumar C	30
14	95222103062	Renukadevi B	30
15	95222103063	Rosan N	60
16	95222103064	Rose Mary J	2
17	95222103065	Sanjay Kumar R	66
18	95222103066	Sankar R	50
19	95222103067	Sathishkumar C	50
20	95222103068	Sathishkumar R	68
21	95222103069	Selvapriya R	50
22	95222103070	Selvaraj S	56
23	95222103071	Sembulingam S	60
24	95222103072	SenthurPandian T	60
25	95222103073	ShanmugaPriya M	70
26	95222103074	Siva Balan T	70
27	95222103075	Sivakumar S	70
28	95222103076	Sivasankari M	60
29	95222103078	Sri Ram N	70
30	95222103079	Srivarshini R	82
31	95222103080	SubaSangeetha S	AB
32	95222103081	Subalakshmi B	AB
33	95222103082	SudharshaPraba U	56
34	95222103083	Valagurunathan S	50

35	95222103084	Vignesh G	60
36	95222103085	Vignesh T	60
37	95222103086	Vishnu Priya S	54
38	95222103087	Viswajith N	66
39	95222103088	Yogalakshmi K	34
40	95222103301	Mahalingam K	22
41	95222103302	Manjunath D	76
42	95222103303	Mohammed Abdulla A	88
43	95222103304	Nirmal Kumar S	70
44	95222103305	Saravana Kumar S	66
45	95222103306	SimsonChelladurai D	54
46	95222103307	Singaravelan	74

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NAME LIST FOR SLOW LEARNERS

Batch	2021-2025	Academic Year	2022-2023
Year/Sem	II / IV	Sub code/Name	503006 / Computer Networks
S.NO	REG.NO	STUDENT NAME	CAT III MARKS(100)
1	95222103049	NigilaKannan	26
2	95222103052	Prabhu P	20
3	95222103053	Prakash Rajan K	38
4	95222103055	Prasanna T	42
5	95222103059	Ramakrishnan N	16
6	95222103061	Ravi Kumar C	30
7	95222103062	Renukadevi B	30
8	95222103064	Rose Mary J	2
9	95222103080	SubaSangeetha S	AB
10	95222103081	Subalakshmi B	AB
11	95222103088	Yogalakshmi K	34
12	95222103301	Mahalingam K	22

Faculty In-Charge

HOD/CSE

CAT I, CAT II and CAT III SLOW LEARNERS - ANALYSIS

S.NO	REG.NO	STUDENT NAME	CAT I	CAT II	CAT III
1	95222103049	NigilaKannan	AB	40	26
2	95222103050	NimeshVarshan S	AB	AB	52
3	95222103052	Prabhu P	74	82	20
4	95222103053	Prakash Rajan K	56	64	38
5	95222103054	Prakash S	0	58	54
6	95222103055	Prasanna T	0	72	42
7	95222103058	Ram Kumar G	0	70	60
8	95222103059	Ramakrishnan N	62	62	16
9	95222103060	Ramalakshmi S	0	AB	50
10	95222103061	Ravi Kumar C	60	64	30
11	95222103062	Renukadevi B	60	88	30
12	95222103063	Rosan N	0	70	60
13	95222103064	Rose Mary J	50	50	2
14	95222103067	Sathishkumar C	0	50	50
15	95222103068	Sathishkumar R	0	72	68
16	95222103069	Selvapriya R	30	AB	50
17	95222103070	Selvaraj S	26	60	56
18	95222103071	Sembulingam S	0	84	60
19	95222103072	SenthurPandian T	42	58	60
20	95222103073	ShanmugaPriya M	34	44	70
21	95222103080	SubaSangeetha S	58	54	AB
22	95222103081	Subalakshmi B	0	AB	AB
23	95222103083	Valagurunathan S	42	AB	50
24	95222103084	Vignesh G	30	64	60
25	95222103085	Vignesh T	40	70	60
26	95222103087	Viswajith N	40	AB	66
27	95222103088	Yogalakshmi K	0	AB	34
28	95222103301	Mahalingam K	0	52	22

CAT I, CAT II, CAT III AND END SEMESTER - SLOW LEARNERS - ANALYSIS

S.NO	REG.NO	STUDENT NAME	CAT I	CAT II	CAT III	End Sem	
1	95222103049	NigilaKannan	AB	40	26	F	18 Pass / 8 fail
2	95222103050	NimeshVarshan S	AB	AB	52	F	
3	95222103052	Prabhu P	74	82	20	P	
4	95222103053	Prakash Rajan K	56	64	38	P	
5	95222103054	Prakash S	0	58	54	F	
6	95222103055	Prasanna T	0	72	42	P	
7	95222103058	Ram Kumar G	0	70	60	P	
8	95222103059	Ramakrishnan N	62	62	16	F	
9	95222103060	Ramalakshmi S	0	AB	50	P	
10	95222103061	Ravi Kumar C	60	64	30	P	
11	95222103062	Renukadevi B	60	88	30	P	
12	95222103063	Rosan N	0	70	60	P	
13	95222103064	Rose Mary J	50	50	2	P	
14	95222103067	Sathishkumar C	0	50	50	P	
15	95222103068	Sathishkumar R	0	72	68	P	
16	95222103069	Selvapriya R	30	AB	50	P	
17	95222103070	Selvaraj S	26	60	56	F	
18	95222103071	Sembulingam S	0	84	60	P	
19	95222103072	SenthurPandian T	42	58	60	P	
20	95222103073	ShanmugaPriya M	34	44	70	P	
21	95222103083	Valagurunathan S	42	AB	50	F	
22	95222103084	Vignesh G	30	64	60	P	
23	95222103085	Vignesh T	40	70	60	P	
24	95222103087	Viswajith N	40	AB	66	F	
25	95222103088	Yogalakshmi K	0	AB	34	P	
26	95222103301	Mahalingam K	0	52	22	F	

Signature	Prepared by:	Approved by:		
Name :	Dr. M. Vargheese	Dr. M. Vargheese	Dr. X. Sahaya Shajan	Dr. V. Manikandan
Designation:	Prof. / CSE	HoD / CSE	Director(Academic)	Principal