

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)

Shobhavana Campus, Mijar-574225, Moodbidri, D.K Phone: 08258-262725, Fax: 08258-262726

Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

ATTENDANCE BOOK

Academic Year	2023 - 24
Semester	:
Period of the Semester	: From. 29-4-24 to 81-84-24.
Subject with Code	. Advanced Jewa Programming. 01 CS 642
Name of the Faculty	. SHRIKANTH N.4.
Department	AIML

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

- To bestow quality technical education to imbibe knowledge, creativity and ethos
 to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

vision of the department foster Competent Proofessionals by Pristilling Knowledge and skills in the

Artificial Entelligence & Machine Learning Realm to cate needs of Endustry & Community.

MISSION OF THE DEPARTMENT

- To strengthen the assimilation process of concepts in Align through exposents learning.

- To execute a better Academia - Industry Itasion by means of skell enhanced

- To develop a Support System for Reasearch & Development for broads, application in AIML domain.

- To promoke Entrepreneusial Culture through Enteraction with Collaborative Knowledge partners.

COURSE OUTCOMES Interpret the need for advanced java Concepts leke encemetations, and annotations an developing Modular & efficient programs. CO2 Apply the Concepts of General Classes in Java programs. CO3 Ellustrak the use of Island handling functions.

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Using the IDBC APP.

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	PO1	PO2	PO3	PO4	-					PO10	PO11	PO12	PSO1	PSO2	PSO3	P31
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CO1	3	3	3	3								2	2		2	1
CO2	2	2	2	2								2	9		2	2
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CO4	3	. 2	3	8								d	Ų		2	2
CO5	3	3	3	3								2	d	٠,	2	2
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		PROGRAM OUTCOMES (POs)
PO1		ering knowledge: Apply the knowledge of mathematics, science, Engineeri
		entals and an engineering specialization to the solution of complex engineering problems
PO2		n analysis: Identify, formulate, review research literature, and analyze complering problems reaching substantiated conclusions using first principles of mathematic
		sciences and engineering sciences.
	Design	development of solutions: Design solutions for complex engineering problems an
PO3	design	system components or processes that meet the specified needs with appropria
	conside	ration for the public health and safety, and the cultural, societal and environments
	Conside	
P04	method	et investigations of complex problems: Use research-based knowledge and research including design of experiments, analysis and interpretation of data, and synthesis of the
	informa	ition to provide valid conclusions.
Do-	Modern	tool usage: Create, select, and apply appropriate techniques, resources, and modern
PO5	enginee	ring and II tools including prediction and modeling to complex engineering activities with
	The en	erstanding of the limitations.
P06	societal	agineer and society: Apply reasoning informed by the contextual knowledge to assess, health, safety, legal and cultural issues and the consequent responsibilities relevant to
	tile pro	iessional engineering practice.
P07	Enviro	nment and sustainability: Understand the impact of the professional engineering
107	solution	ns in societal and environmental contexts, and demonstrate the knowledge of, and need for able development.
PO8	Ethics:	Apply ethical principles and commit to professional ethics and responsibilities and norms
108	or the e	righteering practice.
P09	Individ	lual and team work: Function effectively as an individual, and as a member or leader in
	diverse	teams, and in multidisciplinary settings.
PO10	commu	unication: Communicate effectively on complex engineering activities with the engineering unity and with society at large, such as, being able to comprehend and write effective
. 010	reports	and design documentation, make effective presentations, and give and receive clear
-	motruc	dolls.
PO11	engine	t management and finance: Demonstrate knowledge and understanding of the ering and management principles and apply these to one's own work, as a member and
	1 gine	
	icauci	in a team, to manage projects and in multidisciplinary environments
PO12	Life-lo	ng learning: Recognize the need for, and have the preparation and ability to engage in
PO12	Life-lo	in a team, to manage projects and in multidisciplinary environments. ng learning: Recognize the need for, and have the preparation and ability to engage in a number of the context of technological change.
PO12	Life-lor indeper	ng learning: Recognize the need for, and have the preparation and ability to engage in adent and life-long learning in the broadest context of technological change. PROGRAM SPECIFIC OUTCOMES (PSOS)
	Life-lo	ng learning: Recognize the need for, and have the preparation and ability to engage in indent and life-long learning in the broadest context of technological change. PROGRAM SPECIFIC OUTCOMES (PSOs) Understand, analyse, and demonstrate the knowledge of human association to the following specific description.
PO12	Life-lor indeper	ng learning: Recognize the need for, and have the preparation and ability to engage in indent and life-long learning in the broadest context of technological change. PROGRAM SPECIFIC OUTCOMES (PSOs) Understand, analyse, and demonstrate the knowledge of human cognition, Artificial Intelligence (AI), an Machine Learning (ML) in terms of real-world problems to meet the challenges of the future.
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PS01	PSO2	In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and in multidisciplinary environments. In a team, to manage projects and have the preparation and ability to engage in multidisciplinary environments. In a team, to manage project and have the preparation and ability to engage in multidisciplinary environments. In a team, to manage project developes (PSOs) In a team, to manage project developes (PSOs) In a team, to manage project developes of the future. In a team, to manage project developes in the areas of Autonomous Systems, location of the team techniques of the future. In a team, to manage project developes in the areas of Autonomous Systems, location of the team techniques of the future. In a team, to manage project developes in the areas of Autonomous Systems, location of the team techniques of the future. In a team, to manage project developes in the areas of Autonomous Systems, location of the team techniques of the future. In a team, to manage project developes in the areas of Autonomous Systems, location of the future. In a team, the project developes in the areas of Autonomous Systems, location of the future. In a team, the project developes in the areas of Autonomous Systems, location of the future. In a team, the project developes in the areas of Autonomous Systems, location of the future. In a team, the project developes in the areas of Autonomous Systems, location of the future. In a team, the project developes in the areas of Autonomous Systems, location of the future. In a team, the project developes in the areas of Autonomous Systems, location of the future. In a team, the project dev
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PS02 PS03 PS04	PSO1 PSO2 PSO3 PSO4 PSO5	In a team, to manage projects and in multidisciplinary environments. Inglearning: Recognize the need for, and have the preparation and ability to engage in modent and life-long learning in the broadest context of technological change. PROGRAM SPECIFIC OUTCOMES (PSOs) Understand, analyse, and demonstrate the knowledge of human cognition, Artificial Intelligence (Al), and Machine Learning (ML) in terms of real-world problems to meet the challenges of the future. Incorporate Al and ML techniques for industrial applications in the areas of Autonomous Systems, low Cloud Computing, Robotics, Natural Language Processing, and emerging areas. Develop computational knowledge and project development skills using innovative tools and technique to solve problems in the areas related to Deep Learning, Machine learning, Artificial Intelligence. Provide solutions to complex problems, using the latest hardware and software tools, along with analytical skills to arrive at cost-effective and appropriate solutions through Al & ML dimensions. Work as a part of the team through effective communication on multidisciplinary projects and successful the computer and information technology industry that meets the needs of a society enriched with professional ethics. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Expand knowledge in the field of Al & ML Develop a continuous learning attitude, ethics, and values. Inculcate abilities and talents, leading to creativity and productivity in the professional and industrial field beyond the curriculum and industrial field in the field of Al & ML
PSO2 PSO3 PSO4	PSO1 PSO2 PSO3 PSO4 PSO5	In a team, to manage projects and in multidisciplinary environments. In a learning: Recognize the need for, and have the preparation and ability to engage in a magnetial magnetial magnetial problems and the broadest context of technological change. PROGRAM SPECIFIC OUTCOMES (PSOS) Understand, analyse, and demonstrate the knowledge of human cognition, Artificial Intelligence (AI), and Machine Learning (ML) in terms of real-world problems to meet the challenges of the future. Incorporate AI and ML techniques for industrial applications in the areas of Autonomous Systems, Io Cloud Computing, Robotics, Natural Language Processing, and emerging areas. Develop computational knowledge and project development skills using innovative tools and technique to solve problems in the areas related to Deep Learning, Machine learning, Artificial Intelligence. Provide solutions to complex problems, using the latest hardware and software tools, along with analytical skills to arrive at cost-effective and appropriate solutions through AI & ML dimensions. Work as a part of the team through effective communication on multidisciplinary projects and successful the computer and information technology industry that meets the needs of a society enriched with professional ethics. PROGRAM EDUCATIONAL OBJECTIVES (PEOS) Expand knowledge in the field of AI & ML Develop a continuous learning attitude, ethics, and values.
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ATTENDANCE BOOK

Academic Year	. 9023-24
Semester	:3sectionA
Period of the Semester	: From
Subject with Code	: Data Structure & Applications. (BCS 304)
Name of the Faculty	: Deepika kamath
Department	: Computer Scenice & 15 ngg

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

VISION OF THE DEPARTMENT

Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques

MISSION OF THE DEPARTMENT

- To produce skilled, creative software developers through rigorous training.
- To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.
- To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.
- To implement the ideas of research and innovations in interdisciplinary domains.

	COURSE OUTCOMES
CO1	pointers, Dynamic Memory Allocation of anyons. M. M. M.
C02	different operations of stack. Develop the application programs on
CO3	types of Linked List, chains, representation of chair is
CO4	T and on onigry mixed list.
CO5	The state operations of Dinary free
C06	Construct the application programs on different operations of Binary Search trees, Selection Trees, Forests and graphs. Explain Representation Explain Craph Abstract Part Trees.
	Explain Graph Abstract Data Types, Elementary Graph operations, advance. Data structure concepts such as Hashing and Optimal Binary Search Trees, Single and double ended Priority Queues, Leftist Trees.

	PO1	PO2	PO3	DO4						orney	Queu	es, L	ertist	Iree	S.
		102	F03	P04	PO5	P06	PO7	PO8	P09	PO10	PO11	PO12			
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C06									1	2	1	2	2	2	2
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	PROGRAM OUTCOMES (POs)
1	Engineering knowledge: Apply the knowledge of mathematics, science, Engineering Problem analysis: Identify formula to the solution of complex engineering
1	fundamentals and an engineering specialization to the solution of complex engineering problems. Problem analysis: Identify, formulate, review research literature and problems.
	Problem analysis: Identify, formulate, review research literature, and analyze complex natural sciences and engineering soions.
2	engineering problems reaching substantiated conclusions using first principles of mathematics, Design/development of solutions.
	natural sciences and engineering sciences.
	design system comes Solutions; Design solutions for an in
4	design system components or processes that meet the specified needs with appropriate considerations.
	consideration for the public health and safety, and the cultural, societal and environmental
-	Conduct investigations and environmental
	Conduct investigations of complex problems: Use research-based knowledge and research information to provide valid constant, analysis and interpretation of data, and synthesis of the
4	methods including design of experiments, analysis and interpretation of data, and synthesis of the Modern tool usage: Create and research information to provide valid conclusions.
-	Modern tool usage: Conditions.
5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern an understanding of the limitation prediction and modeling to complex engineering activities with
J	an understanding of the limit and modeling to complex engineering activities and
-	The engineer and society is
6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess the professional engineering practice. Environment and sweet practice.
	the professional engineering and cultural issues and the consequent responsibilities relevant to
17	solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for Ethics: Apply ethical and environmental contexts, and demonstrate the knowledge of, and need for Ethics: Apply ethical and environmental contexts, and demonstrate the knowledge of, and need for Ethics: Apply ethical and environmental contexts, and demonstrate the knowledge of, and need for Ethics: Apply ethical and environmental contexts, and demonstrate the knowledge of, and need for Ethics: Apply ethical and environmental contexts, and demonstrate the knowledge of the professional engineering sustainable development.
.0	Ethics: Apply ethical principles
)8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms Individual and to
10	
19	diverse teams, and in multidisciplinary settings.
	Communication: Communicate of the
10	community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give a large of the such as
10	reports and design documentation makes and sold to comprehend and write effective
	instructions, and give and receive clear
	Project management and Grand B
11	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.
	leader in a team, to manage projects and
12	Life-long learning: Recognize the most f
	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
	PROGRAM SPECIFIC OUTCOMES (PSOs)
01	Professional Skills: The ability to understand & implement the computer
	programs in the areas of Computer Architecture, System Software, Database
	Management Systems Wel D. Architecture, System Software, Database
	Management Systems, Web Design, Multimedia and Computer Networking.
02	part recording.
	Problem-Solving Skills: The ability to solve real-world problems by the suitable
	mathematical model with strong technological concepts in the rapidly growing
	arena of computer technological concepts in the rapidly growing
03	
	Successful Career and Entrepreneurship: Knowledge in diverse areas of
	Software Engineering and Management & Entrepreneurship for IT Industry,
	conducive in cultivating skills for
04	conducive in cultivating skills for successful career development.
	PROGRAM
	PROGRAM EDUCATIONAL OBJECTIVES (PEOs)
01	
02	
03	
04	



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)

Shobhavana Campus, Mijar-574225, Moodbidri, D.K Phone: 08258-262725, Fax: 08258-262726

Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

ATTENDANCE REGISTER FOR LABS

Academic Year	2023 - 24
Semester	A-15 Section A, B, C.
Period of the Semester	: From 29/04/24 07/08/24
Subject with Code	Technical Writing using LaTux (BCSL456D)
Name of the Faculty	Dr. Madhusudhas, S.
Department	CSE

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

VISION OF THE DEPARTMENT

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

MISSION OF THE DEPARTMENT

- M1. To produce skilled, creative software developers through rigorous training.
- M2. To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.
- M3. To implement the ideas of research and innovations in interdisciplinary domains.
- M4. To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.

	COURSE OUTCOMES
	1 1 1 2. I To X Dong wand to
CO1	Apply basic LaTex Command to disclop Simple document
C02	Description Sale bigures in the da
C03	Musikate tares
C04	Experiment propert with citation
CO5	Practice the use of Tikz and alg libraries to disign graphes.
006	

	P01	P02	PO3	PO4	POS	P06	PO7	PO8	P09	PO10	PO11	PO12	PSO1	P803	PSO3	PSO
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meering knowledge: Apply the knowledge of mathematics, science, lengtheering amentals and an engineering specialization to the solution of complex engineering problems dem analysis: Identify, formulate, review research literature, and analyze complex neering problems reaching substantiated conclusions using first principles of mathematics, trail sciences and engineering sciences.

ign/development of solutions: Design solutions for complex engineering problems and ign system components or processes that meet the specified needs with appropriate isideration for the public health and safety, and the cultural, societal and environmental isiderations.

induct investigations of complex problems: Use research-based knowledge and research ethods including design of experiments, analysis and interpretation of data, and synthesis of the formation to provide valid conclusions.

odern tool usage: Create, select, and apply appropriate techniques, resources, and modern agineering and IT tools including prediction and modeling to complex engineering activities with a understanding of the limitations.

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.

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.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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.

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.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

A graduate of the Computer Science and Engineering Program will exhibit: PSO1: Professional Skills: The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.

PSO2: Problem-Solving Skills: The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.

PSO3: Successful Career and Entrepreneurship: Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

The graduates of Computer Science & Engineering will be able to

 PEO1: Exhibit the knowledge and skill sets to adapt to the dynamic technological transformations and developments in the field of computerScience and Engineering.

ALVA'S

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Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

ATTENDANCE BOOK

Academic Year	: 2023 - 2024
Semester	:
Period of the Semester	: From 29/04/24 to 27/07/24
Subject with Code	: B.E.C.4.03, Principles of Communication Systems
Name of the Faculty	Dr. NAPOLEAN A
Department	: Electronics and Communication Engg

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

- To bestow quality technical education to imbibe knowledge, creativity and ethos
 to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater

VISION OF THE DEPARTMENT

Contre of Excellence to empower the young minds in the field of Electronion and Communication Engg with research focus and skill development through bonsformative education catering to the needs of the society.

MISSION OF THE DEPARTMENT

Mi: To create learning environment to enable the Students for excellence in the field of Electronis and Communication Engg.

Ma: To Empower the Students with necessary skills for solving the Complex technological problems.

M3: To miculcule research culture among teaching learning group by guiding them towards research activities to bridge the Jap between industry and Academia.

M4: By imbibing the students with human values and Ethics through transformative education and make them so working responsible professionals.

anglete from more and	COURSE OUTCOMES
CO1	Understand the Principles of analog Communication systems and noise modelling.
CO2	Identify the 8chemes for analog modulation and demodulation
соз	Design of PCM systems Through the processes Jampung,
CO4	Describe the ideal Condition Practical Chriderasins of the
CO5	Signal Representation for baseband framismin y digital signals Identify and associate the random Variables and random Process in Communication system design.
C06	

	PO1	PO2	P03	P04	POS	P06	P07	PO8	P09	PO10	P011	PO12	P801	PS02	PSO3	PSO
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ast Work	king Day of	the Semester	08.08.	24				
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		Plan	61211		Execution			
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Period	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Sour Mater
5	16/5/24	Menn & Correlation Covariance	ಎ	Monn à Correlation Covariance	1615/29	Refer 2,5
6	17/5/24	Properhos & auto Correlation function	- 2	properties or auto Grovelation function	भिशिम	2,3
7	17/0/24	cross correlation	2.	Cross Correlation function	निश्चिम	2,
8	20/5/24	Gaussian process	2	Cross Corelation	2012/24	2,
9	21/5/24	(Basic Signa) * Pupowentalism MAELBB	2,5	Banc eignal Hyrwenten m MATLAB	21/2/24	2,
10	રગ્રાકોરપ	Signal Hyprometata.	2,5	signal representation time frequent		2,
11-	ત્રેશકાચ્યે	Gaussian distribution	2	Gaussian distrib	23/5/24	2
12	૨ ૧૧૪/৮૫	Revision on Madule -1.	2,5	Revision on module-1	2Alstun	2,
- V.		Module	2			
13	27 5 4	AM Concepts	4	AM Concepts.	2계51백	1
14	અનાડા24	Modulatin Inden and 90 y modulating	. 1 . _{**}	Moderlating Index and	अमीरिय	1
15	27/5/24	Sidebands and the frequent dominin	4	Side bands and the fraying demons	2 1 (s) w	1
16	ગાઠીય	AM Power	1	Am power	31/5/24	2

		Plan		Execution					
Period	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Materia Referre			
評	06/06/24	Single sideband Modulation	1	Single eidebord Modulation	06/6/24	4			
18	07/6/24	Diode Modulator	. 1	Diode modulate	मिनिष्य	1.			
19	1016124	Tronsistor and Collector modulator	1	Tronsister and Collection Modulator	106124	1			
20	10/6/24	biode detector	1	biode datella.	146124	1			
21	12/6/24	Balanced modulator.	1	Lathre Modulator	1216124	1			
22	13/6/24	Gregumy orvien multipleaing	1	Frequenty Division Multiplesing	13/6/24	1			
23	1416124	Amphitude modulation	1,5	Demadelahar.	14/6/24				
24	18/6/24	Frequent Modulation	Inkol 1,5	frequent models and Domedulation	18/6/24	1,5			
AND DESCRIPTION OF THE PERSON		Basic principles of Frequency modulation	The second	Basic principles of frequent modulate	1916/24	1			
26.	24/6/24	Principles of phase modulation	1	Principles of phase modulation	24/6/24	1			
27	29144	Modifialm Inden and Side bands	<u>a</u> -11-11	Model alim indox	24/6/24	1			
20	25/6/24	Motise Suppression	<u>A</u>	noise suppression	25/6/h	12			
29	26 6 24	FM VS AM,	1	FM VS AM	a6 6 m	72			

		Plan	Source	HARGU	llon	The same
Period	Date	Topics to be covered	Material needed	Topics Covered	Date	N N N N
30	28/6/24	Slope delection	Q ia	Slope detati	Deleta	l'A
31	28/6/24	Phase Locked Loops	1	phase bocked	28/6/ay	2002
32	02/9/24	Super hethodyne Receiver	1	super hehodyna Hewicz		
33	02/7/24	Frequent anvoying	1.	fregueny amenon a moring Principles.	02/X/24	1
34	100	JEBT -Mixer	1	JEBT MIXE	3/3/24	
35	०५१७१२५	Sampling & Reconstru -chin of Lps *	1,3	Sampling and Remomining	4/2/24	dense
36	05/7/24	TOM & Demulti -ploxing *	1, 3	Toma De multiplexing L	sमिक्	1
37	12/7/24	Module Introduction	4	Introduction	12/7/124	
38-	12/7/24	Why digitise Analog Sources	2011	Why objective Analog Sunrap	12/1/24	
39	V6)7/24	Sampling Proces	2	Sampling Prices	ष्ट्रीय	
40	1617/24	Polee Amplifude Modulation	2	pulse Amplitude Medulation	16h(21	
Ha	1617124	Tom	2	Tom	16/2024	
4e	19/2/24	Generalm and Detection of ppm	2	Generation and Detection 4 ppm	19/2127	

		Plan	Execution					
Period	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred		
43	20/7/24	Quantizato process	2	Quantizata Proces	20 Ahu	2		
44	22/1/24	Pulse code Modulation	2.	Duly Code	2217/14	2		
		Sampling & Quantization	2	Sampling & Quantization	23/3/24	2		
46	23/0/24	Encoding, Deciding Filtery, Multiplexing	2_	Encading, decoding Filtery, Mulhybury	23)2/24	2		
47	-	Pcm. Sampling	1, 3	Pcm, sampling Quantization, Encoding &	2417/14	1,3		
	n ch hu	NRZ, RZ, Generate	* 40	HRE, RZ, Plut	25/12/14	3,5		
And		and the second s						
49	31774	Module Introduction	-5 2	Indudutn	31/2/21	2		
		Intersymbol interference	2	Intersymbol Interference	1/8/24	2		
	- Alger (1) and (1)	Eye pattern	2 .	Bye Pattern	2/8/19	2		
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56	मार्थाः	Semicondular Nove	1,2	Sami and when	718/24	1		
54	718124	Empressing Noise Jevels	1,2	Expressing Noise Levelo	निक्षिय			
58	र(अ२५	Noise in cascaded stages	1,2		8(\$1-4	The state of the s		
59	8(क्षे24	Probability density	1,2,3	prohorm by denunty frution y gameson distribution funding	8/8/24			
60	8/8/24	Signal and 16 4	100	Signal and its spectrum y and andro sugard to				
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Portions Covered in the entire Semester	1007. (All Five	mome + IPC	(24414)
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Signature of Principal (& Remarks if any)

PRINCIPAL

Alva's Institute of Engg. & Technology.

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HOD's Signature

PROGRAM OUTCOMES (POs) Engineering knowledge: Apply the knowledge of mathematics, science, fundamentals and an engineering specialization to the solution of complex engineering problems. problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. pesign/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate design system for the public health and safety, and the cultural, societal and environmental considerations. 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. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. 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. 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. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. 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) 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. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. PROGRAM SPECIFIC OUTCOMES (PSOs) apply the Principle of Electionis and Comm Understand unication Engg in various domain of Analog & digital typtoms Design and implement systems using the anapts of Electronic Processing, Embedded systems & Semi conductor technology modern hardware and software tools to analyze and engineering problems. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Apply, mathematical, Scientific and Engineering skills for problems in the area of Bleedinis and Communication Briga emerging technologies and Excel is industrial Higher Studies, Research. Apply analytical skills in the area of Electronics and Communication Engg. to become Competant and employable.

Incurrent coult professional skills, ethis, human value, team work Solving Brgg problems & Contribute to Social needs

