

|| Jai Sri Gurudev ||

SRI ADICHUNCHANAGIRI SHIKSHANA TRUST [®]

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi | Approved by AICTE, New Delhi | Recognized by Govt. of Karnataka)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CHIKKAMAGALURU - 577 102

(Accredited by NBA and NAAC)



Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students

- Class rooms
- Department Notice Boards
- Laboratories
- Faculty meetings
- Professional Body meetings

Dept. of Electronics & Communication ErAdichunchanogiri Institute of Technology.
Chikmusalur - 577 102



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY (Affiliated V.T.U.E.elpaum Recognized by A1C TE., New Delhi & Accredited by N.B.A., New Delhi) Jyothinagar. Chikkamagahuru 5 *** 102.



COURSE OBJECTIVES AND OUTCOMES-2023-2024

Course Title: PRINCIPLES OF COMMUNICATION SYSTEMS	Course Code: BEC-402
No. of Lecture Hrs./Week: 03+2	Exam Hours: 03
Total No. of Lecture Hrs.: 40	Exam Marks: 50

Prerequisites

1	Probability theory
2	Fourier transforms.
3	Basics of Communication systems

Course Learning Objectives

This course will help students to achieve the following objectives:

	to of Applea Modulation schemes viz: AM. FM
1	Understand and analyze concepts of Analog Modulation schemes viz; AM, FM
2	Design and analyze the electronic circuits for AM and FM modulation and
	demodulation.
3	Understand the concepts of random variable and random process to model
	communication systems.
4	Understand and analyze the concepts of digitization of signals.
5	Evolve the concept of SNR in the presence of channel induced noise

Course Outcomes





CO		
Number	Course Outcomes	Cognitive
BEC -402.1	Identify and associate the round	Level
BEC -402.2	Identify and associate the random variables and random process in Communication system design.	L2
BEC -402.3	Understand the principles of analog communication systems and noise modeling.	L2
BEC -402.4	Identify the schemes for analog modulation and demodulation and compare their performance	L2
BEC -402.5	quantization and encoding.	L2, L3
102.0	Describe the ideal condition, practical considerations of the signal representation for baseband transmission of digital signals.	L2

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BEC-402.1	2	2			1									
BEC-402.2	2	2			2								2	
BEC-402.3	2	2			2								2	
BEC-402.4	2	2			2								2	
BEC-402.5	2	2			2								2	

O-PO Mappir	ig Just	tifica	ation
	PO1	2	Understand the concepts of Random Variables and Processes
BEC -402.1	PO2	2	Analyze the problems related to random variables and processes
	PO5	1	Analyze the Random signals using Matlab
	PO1	2	Understand the basics of AM and FM. performance analysis in presence of noise
BEC -402.2	PO2	2	Analyze AM and FM related problems
	PO5	2	Analyze the spectrums of AM and FM using Matlab
BEC -402.3	PO1	2	Understand the design of modulators and demodulator circuits
DBC -402.0	PO2	2	Able to solve the problems of modulator and demodulator circuits
	PO5	2	Able to design modulators and demodulators using Matlab.
BEC -402.4	PO1	2	Understand digital formatting processes with quantization noise.
	PO2	2	Analyse the concepts of digital formatting process
	PO5	2	Able to design PCM systems using Matlab.
BEC -402.5	PO1	2	Understands and analyse the digital transmission and reception.
	PO2	2	Analyzes the Transmission and reception related issues.
	PO5	2	Able to display the signal and its spectrum of an audio signal.
			210

CO-PSO MAPPING JUSTIFICATION

CO/PSO	PSO1	JUSTIFICATION
BEC -402.2	2	Able to understand and analyze the performance of AM and FM systems
BEC -402.3	2	Able to analyze and design modulators and demodulator circuits
BEC -402.4	2	Able to analyze the digital formatting systems
BEC -402.5	2	Able to understand and Analyzes the Transmission and reception related issues.

Sl. No	Coordinator	Name	Signature
1	Faculty In charge	Manjula U R	topo
1	Faculty In-charge	Anitha K.T	Aria
2	Course Coordinator	Manjula U R	rad
3	Module Coordinator	Dr. A P Jagadeesh	
J	Module Coordinator	Chandra	Ben
4	IQAC	Mr. MadhuPrakash R	
5	Programme Coordinator	Dr. Goutham M A	gereer



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COURSE OBJECTIVES AND OUTCOMES - 2023-24

Course Title: Microwave Theory and Antennas	Course Code: 21EC62
No. of Lecture Hrs./Week: 03+02 practical	Exam Hours: 03
Total No. of Lecture Hrs. : 40 hrs + 12 Lab slots	Exam Marks : 50

Prerequisites

Basic knowledge of microwave frequency and its Application	
2 Banda Therefore the due to a fine toward frequency and its Application	
Fundamentals of Field theory and Wave Propagation	
and theory and wave modesation	

Course Learning Objectives

This course will help students to achieve the following objectives:

1 Doggail	
Describe the Microwave properties an	d its transmission media
2 Describe the Minus in its	a its dansinission media.
Describe the Microwave devices for se	veral applications.
Understand the basics of Antenna the	
4 Select Antonia Control of Antonia tile	101 y.
4 Select Antennas for applications.	

Course Outcomes

CO Number	Course Outcomes	Cognitive
21EC62.1	Describe the use and advantages of microwave transmission. Identify various parameters related to transmission lines and Strip lines.	Level
21EC62.2	Identify microwave devices for several applications	1.0
21EC62.3	of antennas.	L2 L2
21EC62.4	Study the different types of antennas and their applications.	L2

	PO1	PO2	РО3	PO4	PO5	P06	PO7	PO8		1	PO12	PSO1	
21EC62.1		2										2	1
21EC62.2												2	
21EC62.3												2	
21EC62.4		2										2	

CO-PO Mapping Justification

1									
		21EC62.1	PO1	3	Apply knowledge to identify the parameters of transmission lines and Strip lines				
			PO2	2	Understand the parameters and advantages of transmission line.				
	21EC62	21EC62.2	PO1	3	Identify various microwave properties and its applications				
		210002.2	PO2	2	Apply knowledge of microwave passive devices and strip lines				
		21EC62.3	PO1	3	Analyse various antenna parameters				
		212002.0	PO2	2	Identify the antenna design				
		21EC62.4	PO1	3	Analyse different types of antennas				
			PO2	2	Identify applications of various types of antenna				

CO-PSO Mapping Justification

	21EC62.1	PSO1	2	Graduate will have an ability to identify microwave transmission lines and its properties.
21EC62	21EC02.1	PSO2	1	Graduates will be able to use smith chart to solve transmission line problems.
21EC62	21EC62.2	PSO1	2	Graduate will have knowledge of microwave device application.
	21EC62.3	PSO1	2	Graduate will have an ability to identify several parameters of antenna.

21EC62.4	PSO1	2	Graduate will have an ability to illustrate different types of antennas and its applications.
	21EC62.4	21EC62.4 PSO1	21EC62.4 PSO1 2

Coordinator	Name	Signature
Faculty In-charge	Nagaveni C.R	MMUM Ind 2
Course Coordinator	Dr. Suma M	0000 20024
Module Coordinator	Dr. A.P Jagadish	1.06
IQAC		312,60-33/2/
Programme Coordinator		
	Faculty In-charge Course Coordinator Module Coordinator IQAC	Faculty In-charge Nagaveni C.R Course Coordinator Dr. Suma M Module Coordinator Dr. A.P Jagadish Chandra IQAC Mr. MadhuPrakash R



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY ABBREST VIUE REPORTED FOR STATE OF ACCOUNTS A New Date & Accounted by N.B.A. New Da



COURSE OBJECTIVES AND OUTCOMES - 2023-24

Course little: Wireless and Cellular Collination	Course Code: 18EC81
No. of Lecture Hrs./Week: 03	Exam Hours: 03
Total No. of Lecture Hrs.: 40	Exam Marks: 60

Prerequisites

1	Principles of Communication	
2	Computer Communication Networks	
3	Digital Communication	

Course Learning Objectives

This course will help students to achieve the following objectives:

.1	Understand the concepts of mobile radio propagation and its mechanisms, fading, multipath and cellular system.
2	Understand the overview of GSM network and system architecture and its operations.
3	Discuss the basics of CDMA technology and its network and system architecture.
4	Describe the overview of LTE system architecture, its functional standards, modulation used for wireless cellular operation. Discuss the concept of radio resources.

Course Outcomes

CO Number	Course Outcomes	Cognitive Level
	Understand the concepts of mobile radio propagation and its mechanisms, fading, multipath and cellular system.	L2
	Understand the overview of GSM network and system architecture and its operations.	L2

18EC81.3	Discuss the basics of CDMA technology and its network and system architecture.	L2
18EC81.4	Describe the overview of LTE system architecture, its functional standards, modulation used for wireless cellular operation. Discuss the concept of radio resources.	1.2

	PO1	PO2	PO2	DOA	DOS	T								
		102	103	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSO1	PSO2
	2	1	-			-								
		'				3	2					2	2	1
18EC81.2	2													
						3	2					1	2	1
18EC81.3	2													(20)
						3	2					2	2	1
18EC81.4	3													
						3	2					2	2	1

CO-PO Mapping Justification

		PO1	2	Understand free-space propagation and cellular concept.
	1000011	PO2	1	Identify the concepts of propagation mechanisms.
	18EC81.1	PO6	3	Enhances the basic concepts of wireless mobile communication.
		PO7	2	Identify the air propagation mechanisms.
		PO12	2	Understand various essentials in cellular system.
18EC81		PO1	2	Understand GSM and TDMA technologies.
		PO6	3	Enhances the basic concepts of GSM in mobile communication.
	18EC81.2	PO7	2	Understand air interface.
		PO12	1	Identify the developments in GSM technologies.
	105001.2	PO1	2	Understand CDMA technology.
	18EC81.3	PO6	3	Improvements in CDMA.

	PO7	2	Understand air interface.
	PO12	1	Identify the developments in GSM technologies.
	PO1	2	Understand CDMA technology.
	PO6	3	Improvements in CDMA.
18EC81.3	PO7	2	Understand the air interface.
	PO12	2	Identify the developments in CDMA.
	PO1	3	Improvement in the knowledge of LTE and OFDMA.
	PO6	3	Understand the contentious development of LTE.
18EC81.4	PO7	2	Understand air interface.
10000111	PO12	2	Improve the knowledge of uplink and downlink radio
			resources.

COT	50 mappe			Students will be able to analyse the wireless communication
	18EC81.1	PSO1	2	system.
		PSO2	1	Students will be able to analyse the problems of propagation in communication system.
	18EC81.2	PSOI	2	Students will be able to analyse the GSM applications in wireless communication system.
18EC81		PSO2	1	Students will be able to identify the changes in GSM architecture.
	18EC81.3	PSO1	2	Students will be able to analyse the CDMA applications in wireless communication system.
		PSO2	1	Students will be able to identify the types of CDMA.
	18EC81.4	PSO1	2	Students will be able to analyse the uses of LTE in wireless communication system.
		PSO2	1	Students will be able to analyse the uses of LTE in wireless communication system.

Sl. No	Coordinator	Name	Signature
1	Faculty In-charge	Dr.Vani H R Dr.Jagadishchandra A P	Haui
2	Course Coordinator	Dr.Jagadishchandra A P	ABPL
3	Module Coordinator	Dr.Jagadishchandra A P	81Ger
4	IQAC	Mr. MadhuPrakash R	at .
5	Programme Coordinator	Dr. Goutham M A	



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COURSE OBJECTIVES AND OUTCOMES - 2023-24

Course Title: Computer Organization and	Course Code: BEC306C
Architecture	Exam Hours: 03
No. of Lecture Hrs./Week: 03	Exam Marks: 50
Total No. of Lecture Hrs. : 40	Exam

Prerequisites

•		
1	Digital logic design	j
2	Operating system	

Course Learning Objectives

This course will help students to achieve the following objectives:

	The state of the s
1	Understand the basic organization of a computer system.
2	Demonstrate the addressing modes, instruction formats and program
3	Understand different ways of accessing an input / output device
	1 1' ' ' '
4	Demonstrate the organization of different types of semiconductor and
	other secondary storage memories.
5	Demonstrate organization of simple processor, based on hardwired
1	control and micro programmed control.

Course Outcomes

CO Number	Course Outcomes	Cognitive Level
BEC306C.1	Understand the basic sub system of a computer, their organization, structure and operation.	L2
BEC306C.2	Explain the concept of programs as sequence of machine instructions.	L2
BEC306C.3	Understand basics of I/O data transfer	L2

	synchronization, interrupts and direct memory access methods.	
BECSUUC.4	Explain different types of memories and virtual memory concept.	L2
BEC306C.5	Explain the processor implementation by hardwired and microprogrammed control.	L2

													PSO1	pso2
	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSUI	1302
													2	
BEC306C.1	2													
BEC306C.2	2												2	
													2	
BEC306C.3	2	1	1											
BEC306C.4	2	2	2										2	
													2	
BEC306C.5	2													

CO-PO Mapping Justification

		BEC306C.1	PO1	2	Understand the fundamentals of Computer Organization and apply the engineering knowledge to explain the operation of computers
		BEC306C.2	PO1	2	Apply the engineering knowledge to write assembly language programs.
	BEC306C		PO1	2	Understand the fundamentals of I/O communication and standard interface. Hence apply the engineering knowledge to solve problem related to communication.
the last of the second second second second second		BEC306C.3	PO2	1	Analyse interconnections of the systems to communicate with outside world using I/O communication.
			РО3	1	Design different methods of communication with I/O devices as per the requirements.
Control of the second s		P0 BEC306C.4	PO1	2	Understand the fundamentals of memory systems and cache Memories and apply the engineering knowledge in designing memory systems.
The second second second second second second second second			PO2	2	Identify the constraints in designing the memory and cache memory as per the performance requirement.

	ЬОЗ	2 1	Design alternatives in designing memory and cache memory systems
BEC306C.5	PO1	2	Apply the engineering knowledge to implement both hardwired and microprogrammed control

	BEC306C.1	PSO1	2	Graduates can analyse structure of a computer system
	BEC306C.2	PSO1	2	Graduates can analyse and program for different processors by knowing the instruction format and its working.
BEC306C	BEC306C.3	PSO1	2	Graduates can understand and analyse multiple devices handling connected to a computer system.
	BEC306C.4	PSO1	2	Graduates will be able to analyse the requirement of different types of memory systems in a computer system
	BEC306C.5	PSO	2	Graduates will be able to understand and analyse the processor internal organization and execution

Sl. No	Coordinator	Name	Signature
1	Faculty In-charge	Nagaveni C.R	Myum
2	Course Coordinator	Dr. Kumuda T	
3	Module Coordinator	Dr. H.R. Vani	Moure
4	IQAC	Mr. MadhuPrakash R	A
5	Programme Coordinator	Dr. Goutham M A	Queux



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COURSE OBJECTIVES AND OUTCOMES - 2023-24

Course Title: Computer Networks	Course Code: 21EC53
No. of Lecture Hrs./Week: 03	Exam Hours: 03
Total No. of Lecture Hrs.: 40	Exam Marks: 60

Prerequisites

1	Computer Networks	
2		
2	Data Communication and Networking	

Course Learning Objectives

This course will help students to achieve the following objectives:

1	Understand the layering architecture of OSI reference model and TCP/IP protocol suite.
2	Understand the protocols associated with each layer.
3	Learn the different networking architectures and their representations
4	Learn the various functions and services associated with each layer
	The real range and services associated with each layer

Course Outcomes

CO Number	Course Outcomes	Cognitive Level
21EC53.1	To understand different layers of OSI and TCP/IP model and protocol of DLL & MAC	L2
21EC53.2	To understand Connecting Devices, MAC, Characteristics and architecture of wired & wireless LAN, VLAN.	L2
21EC5 3 .3	pertaining to Network Layer	L2
18	To understand different services, protocol of transport layer and services & protocol of UDP & TCP	L2
21EC53.5	To understand different services and architectural protocol of Application layer	L2

	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1					PSO2								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POTO	FUIT	101-		
						- A Prilate Control						1	2	
21EC53.1	2	1										1	2	
21EC53.2	2	1										,		
2100622												1	2	
21EC53.3	2	1										1	2	
21EC53.4	2	1										1		
110000					-							1	2	
PIEC53.5	2	1												

CO-PO Mapping Justification

0010	mapping			and I lave the
		PO1	1	The comparison between OSI model and TCP/IP allows the student to better understand TCP/IP protocol suite
	21EC5₹.1	PO2	1	Concept of services provided by BBB had understand how protocol helps a packet at network layer find the link layer address of the next node for delivery of the frame
		PO12	2	Students can apply the knowledge acquired on divisions to interpret the quality of network
4		PO1	2	each layers and understands now these devices devices devices find some solutions if they connect LAN with broadcast domain. They also gain knowledge about how membership in VLAN can be
21EC53	21EC53.2	PO2	1	defined. Concepts of network architecture, addressing mechanism and packet format of wired and wireless network allows students to understand the way in which access is controlled in these types of networks
		PO12	1	Students can apply the knowledge acquired on various channel access techniques helps in analyzing and interpreting the quality of the network
	21EC5 3 .3	PO1	2	Student will understand how network layer is implemented in TCP/IP protocol suite through packetizing, forwarding and routing. They will understand the format of IPv4 datagram, purpose of fragmentation, option field and some security issues related to datagram. Students will also gain the knowledge of difference between class full and classless addressing, how DHCP assigns address in an organization and how NAT is used to relieve shortage of

				address to some extent
		PO2	1	Students will understand the issue related to address change when people temporarily move their device from one place to another. Students will also understand three phases involved in this process their inefficiency and some solutions. Student will understand general idea behind unicast routing, common routing algorithm used in the internet and few routing protocols associated with it.
		PO12	1	Understanding the various end to end protocols helps in analyzing and interpreting the quality of networks and also helps in research based works
		PO1	2	Student will understand the general structure of transport layer such as process to process communication, addressing, multiplexing, demultiplexing, error control, flow control and congestion control.
	21EC53.4	PO2	1	The general structure of transport layer protocol helps students to better understand the design of transport layer protocol in internet such as UDP, TCP, and SCTP and can compare the
		PO12	2	Students can apply the knowledge acquired on various protocols
		PO1	2	Student will understand the general structure and services
	21EC53.5	PO2	1	Understanding the standard client and server protocol helps students to better analyze the architecture of WWW, HTTP, FTP, TELNET, DNS and its security.
		PO12	2	Students can apply the knowledge acquired on various protocols of Application layer for efficiently utilizing available network for data communication in reality

				the state of the s
	21EC53.1	DCO1	2	Student will be able to analyze how packets are send and received at
	212030.1	PSO1	2	the node
	2150522			Student will be able to analyze the network of wired and wireless
	21EC53.2	PSO1		Ethernet LAN
				Student will be able to analyze how packet is forwarded based on
0.15050	21EC53.3	PSO1	2	Student will be able to analyze now packet to resulting algorithm
21EC53	1.	1301		destination address, labels, and can describe routing algorithm
	215053.4			Student will be able to analyze how process to process communication
	21EC53.4	PSO1	2	takes place using different transport layer protocols.
				Student will be able to analyze how different data communication
	21EC53.5	PSO1	2	Student will be able to analyze now different data community
		PSUI	4	takes place using Application layer protocols.

N-			
110	Coordinator	Name	Signature
1	Faculty In-charge	Dr.Vani H R	Hout
	- dounty in-charge	Mr. MadhuPrakash R	8
2	Course Coordinator	Dr.Vani H R	Dane
3	Module Coordinator	Dr.Jagadishchandra A P	319pm
4	IQAC	Mr. MadhuPrakash R	8
5	Programme	Dr. Goutham M A	
	Coordinator	Dr. Goutham M A	



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COURSE OBJECTIVES AND OUTCOMES - 2023-24

Course Title: Cryptography	Course Code: 18EC744
No. of Lecture Hrs./Week: 03	Exam Hours: 03
Total No. of Lecture Hrs.: 40	Exam Marks: 100

Prerequisites

-	
1 1	Engineering mathematics
-	Engineering mathematics
2	
2	
13	

Course Learning Objectives

This course will help students to achieve the following objectives:

1	Understand the classical cryptography algorithms
2	Understand the concepts of symmetric key and public key cryptography.
3	Understand the different types of pseudorandom sequence generation process required
	for stream cipher operations.
4	Apply the mathematical concepts for encryption and decryption algorithms

Course Outcomes

CO Number	Course Outcomes	Cognitive Level
18EC744.1	Describe the encryption and decryption techniques and algorithms used in crypto systems	L3
18EC744.2	Illustrate the concepts of number theory and finite fields applicable to cryptosystems.	L3

escribe the set of procedures and computations used in public veryptosystems	L3
ssify the different types of stream ciphers along with its etional characteristics.	L2
	ssify the different types of stream ciphers along with its

	PO1	PO2	PO3	P04	PO5	DOC								
3EC744.1	2	1	1		100	P06	PO7	PO8	P09	PO10	PO11	PO12	PSO1	PSO2
EC744.2	2	2												2
EC744.3	2	2												6
EC744.4	2	2				221)21							2
1														1

CO-PO Mapping Justification

		PO1	2	Uses the modern algebra and matrix computations in defining encryption and decryption algorithms.
	18EC744.1	PO2	1	Understands the problems associated with the data security and analyze various cipher systems.
		РО3	1	Design solutions for cryptography problems to meet the specified needs for the safety factors in data communication.
[8EC744	18EC744.2	PO1	2	Applying the knowledge of mathematics and engineering fundamentals to define a computationally strong cryptosystem.
		PO2	2	Formulate engineering problems associated with the data security
	18EC744.3	PO1	2	Use mathematical models to define different types of public key cryptosystems.
		PO2	2	Formulate problems associated with the public key cryptosystems.
	18EC744.4	PO1	2	Identify the cryptographic standards to formulate security issues
		PO2	2	Cryptographic standards or processes that meet the needs with appropriate consideration for the safety issues.

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	18EC744.1	PSO1		Analyze the cryptography algorithms used in secure data communication.
18EC744	18EC744.2	PSO1	1	Use of modular arithmetic operations in design of cryptographic systems.
	18EC744.3	PSO1	2	Public key cryptosystems are used in digital certificate where an organization or an individual can provide authentication.
	18EC744.4	PSO1	1	The algorithms are described with digital standards; hence it can be adapted to the internet with minimum modifications.

			Signature
Sl. No	Coordinator	Name	
		Dr. A P Jagadeesh	Al Gler
1	Faculty In-charge	Chandra	
		Dr. A P Jagadeesh	Ar Clan
2	Course Coordinator	Chandra	
		Dr. A P Jagadeesh	arophin
3	Module Coordinator	Chandra	9/1
4	IQAC	Mr. MadhuPrakash R	#
	Programme Coordinator	Dr. Goutham M A	
5	Programme Coordinator		

	DEPARTMENTAL MEMO'S
COURSE OBJECTIVES AND OUTCOMES - 2023-24 Concrete from Outcomes and Concrete from Outcomes - 2023-24 Concrete from Outcomes and Concrete from Outcomes - 2023-24 Concrete from Outcomes and Concrete from Outcomes - 2023-24 For Many Television of Concrete from Outcomes - 2023-24 For Many Television of Concrete from Outcomes - 2023-24 For Many Television of Concrete from Outcomes - 2023-24 For Many Television of Concrete from Outcomes - 2023-24 Concrete from Outcomes The Concrete from Outcomes - 2023-24 In the Concrete from Outcomes - 2023-24 Concrete from Outcomes - 2023-24 In the Concrete from Outcomes - 2023-24 Concrete from Outcomes - 2023-24 And outcomes - 2023-24 Concrete from Outcomes - 2023-2	CO-FO Bapping THE THE THE DAY THE
	C. COCCALISE M.A.

Professor & Head

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