Rayat Shikshan Sanstha's

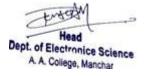
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Tal. Ambegaon, Dist.Pune 410503

Department of Electronic Science Group Discussion 2024-25

Class: S.Y.B.Sc

Name of Program	Group Discussion on "Modulation, Electromagnetic Spectrum and Logic Circuits"	
Event Date	10/10/2024	
Event Participants	S.Y.B.Sc Class	
Event Time	1.25 pm	
Mode of Conduction	Offline(Department of Electronic Science Lab)	
Event Coordinator	Ms. Afroj M Dange, Ms. J.B. Khilari	
No. of Beneficiary	08	
Objectives	In the field of Electronics, Modulation, Electromagnetic Spectrum as	
	Combinational Logic Circuits form the fundamental building blocks for	
	understanding various systems and their behaviours.	
	This activity aims to provide a concise yet informative overview	
	Modulation and Combinational, preparing college students for group	
	discussions and further exploration in this domain.	
Outcomes	Understanding signals and systems is crucial for college students pursuing	
	Electrical and Electronics Engineering.	
	This activity provided an overview of modulation, types of modulation,	
	Electromagnetic Spectrum and essential analysis techniques.	
	By participating in group discussions on this topic, students can further	
	deepen their knowledge and develop problem-solving skills that will be	
	beneficial in their academic and professional careers.	
Enclosure	1] Event Photos	
	2] Student Attendance	
	3] Student group Report	





Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Tal. Ambegaon, Dist.Pune 410503

Department of Electronic Science Group Discussion

Class: TYBSc 2024-25

Name of Program	Group Discussion on "Signals and Systems"	
Event Date	02/09/2024	
Event Participants	TYBSc Class	
Event Time	12.40 pm to 1.25 pm	
Mode of Conduction	Offline (Department of Electronic Science Lab)	
Event Coordinator	Ms. Afroj M Dange	
No. of Beneficiary	06	
Objectives	In Electronics, Signals and Systems form the fundamental building blocks	
	for understanding various systems and their behaviours.	
	This activity aims to provide a concise yet informative overview of signals	
	and systems, preparing college students for group discussions and further	
	exploration.	
Outcomes	Understanding signals and systems is crucial for college students pursuing	
	Electrical and Electronics Engineering.	
	This activity provided an overview of signals, systems, LTI systems, and	
	essential analysis techniques.	
	By participating in group discussions on this topic, students can further	
	deepen their knowledge and develop problem-solving skills that will be	
	beneficial in their academic and professional careers.	
Enclosure	1] Event Photos	
	2] Student Attendance	
	3] Student group Report	



Head
Dept. of Electronice Science
A. A. College, Manchar

Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Tal. Ambegaon, Dist. Pune 410503

Department of Electronic Science

Group Discussion

Student Attendance

Date: 07/10/2024

Class: SYBSc & TYBSc

Time: 2.30 PM

Sr. No	Roll No	Name of Student	Topic Name	Sign
Group				or passon administration of the control of the cont
1	4531	Dhengale Karishma L. Lohate Dipali santosh	Fourier Transform	tone
2	4535	Lohate Dipali santosh	and Fourier series	Shelve
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Group	2:			•
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2	4529	Abhang Prasad Dilip		Dolla
3			,	
Group				_
1	4532	Gawari Kishori Tulashiran	Signals - 1	Jan
2	4530	Bhalergo Vedant Prakash	1	Hotope
3			systems	
Group 4	4:			
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2		Bahiram Avinash Ratilal	Analog Communi-	THE RESERVE OF THE PROPERTY OF
3		Borhade Tanmay J.	Cation system	and the second statement of the second se
Group 5	:			
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2		0 1/4 0	Digital Communi-	diagle
3		chaskar Dnyaneshwari	cation system	men ephoa



Head
Dept. of Electronice Science
A. A. College, Manchar

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Group Discussion

A.Y. 2024-25

Group No/Name: 2.B				
Title: Communication electronic System				
Digital Date: 2/9/2024				
Venue: Electronic Science lab				
Description:				
The Communication System is a s	system Which describe the			
information exchange between two points. The process of				
transmission and reception of information is called				
Communication. The major elements of communication drethe				
transmitter of information, the channel or medium of				
Communication and the Receiver of information.				
Types of Communication System: Depending on Signal				
specification or technology, the Communication System is				
Classified (1) analogue: analogue technology Communication				
data as electronic signals of varying frequency or				
amplitude. Broad Cast and telephone transmission gre				
Common example of analogue technology.				
(2) Digital i- In digital technology. The clata are generaled				
and processed in two states! High (represented as 1)				
and low (represented as o). pigital technology stores and				
	5 1			

transmits data in the form of Is and os. Digital Communication is a popular technology Used today in electronic It allows us to access Video Conferencing, digital meetings, online education. etc. The data can travel upto long distance Within a Second With the help of the internet and other modes of digital Communication, it only not only saved money but also Saves time and effort. It has also raised the standard of an individual's social, political, and en economic life. The Component of a Communication System are the transmitter Communication Channel, and receiver. The transmitter transmits the data to the Communication channel, which further sends it to the receiver. Various devices are used in cascade or parallel with the transmitters and receivers for different purposes, such as modulation, demodulation, noise removal. Sampling , etc. the devices includes modulators filters, amplifiers, encoders and decoders. A signals is an electromagnetic wave that carries information from one place to another, using a specific propagation medium. Such as air, Vacuum, water and solid in electronics the signals is defined as a current, Voltage or wave carring information It can travel short distances or long distances depending on the requirements. The speed of a signal wave is equal to the speed of light. The signals are Categorized as analog signals and digital signals. The noise in analog Signals is high as Compared to digital Signal. It is due to the thresholding and high bandwidth of the digital signals. AAC_DOES_2024-25_GROUP DISCUSSION_STUDENTS

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Tal. Ambegaon, Dist. Pune 410503 Department of Electronic Science

Group Discussion

A.Y. 2024-25

Group No/Name: 1-A	
Title: Laplace transform	
Date: 2/9/2024	
Venue: Electronic Science lab.	
Description:	
Laplace transform is named	in honour of the great
French mathematician, Pierre 5	Simon De Laplace (1749-1827)
Like all transforms, the Laplace	
signal into another according	
rules of equations. The best wa	y to convert differential
equations into algebraic equation	ons is the use of Laplace
transformation.	·
Laplace transformation plan	y a major vole in control
system engineexing. To analyze	the control system, Laplace
transforms of different function	on have to be carried.
out . Both the properties of t	he Laplace transform
and the inverse Laplace trans-	formation are used in
analyzing the dynamic control	system. In this article.
we will discuss in detail the	definition of Laplace
transform, its formula, proportie	1, laplace transform
table and its applications in a	detailed ways
110	, 3

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What is the Laplace Transform? A function is said to be a piecewise continuous function if it has a finite number of breaks and it does not blow up to infinity anywhere - Let us assume that the function f(t) is a piecewise continuous function, then f(t) is defined using the Laplace transform. The Laplace transform of a function is represented by L{f(t)} or F(s). Laplace transform helps to solve the differential equations, where it reduces the differential equation into an algebraic problem. Laplace transform is the integral transform of the given derivative function with real variable t to convert into a complex function with variable s. For t >0, let f(t) be given and assume the function salisfier certain conditions to be stated later on. The Laplace transform of f(+), that is denoted by 1 [f(t)] or F(s) is defined by the Laplace transform formula: - F(s) = f(t) - e-s.t. dt Properties of Laplace Transformation: D Linearity 2) Time-shifting 3) Differentiation 4) Integration 5) Initial value theorem 6) Convolution 7) Final value theorem. Conclusion: The Laplace transformation is a powerful mathematical tool that has proven to be essential in many fields of study.