## GLOBAL

## GLOBAL INSTITUTE OFENGINEERING&TECHNOLOGY

(Approved by AICTE & Affiliated to JNTUH)
Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. TS.
Phone: 8790101015 / 9959250205

e-mail: principal.giet.u6@gmail.com

NTUH Code(U6) CIVIL - CSE - MECH - ECE - EEE - MBA - M. Tech.

**EAMCET Code-GLOB** 

## Department of Electronics and Communication Engineering

Date: 02/08/2016

## CIRCULAR

All the students of II year of the Department of ECE are informed to express their interest by enrolling their name for the One week Bridge course on 'Signals and Systems' starting from 22/08/2016 to 27/08/2016.

The detailed syllabus for the course is attached for your information. Concerned mentors are instructed to submit the list of students enrolled within two days to the undersigned. For further information, you can contact the Course Coordinator Dr. S. Padam Priyal or Head of the Department.

July ale III

Cc to:
Principal
Coordinator IQAC
Mentors
Training & Placement Cell
Notice board
File



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Department of Electronics and Communication Engineering

G Ahmed Zeeshan
BE.,M.Tech.,MBA.,(Ph.D)

MISTE.,MISOI.,MIEEE(USA)
Assistant Professor & Head

Lr.No: ECE/B.Tech/SA/BC-SS/2016-01

Date 02/08/2016

To The Principal GIET

Sir,

Sub: Hosting one week Bridge Course on 'Signals and Systems'- Reg.

\*\*\*\*

The Department of Electronics and Communication Engineering is planning to host one week Bridge Course on 'Signals and Systems' from 22/08/2016 to 27/08/2016 in Room No. 04 for B.Tech II years(A.Y.2016-2017). It is mandatory for the students to learn 'Signals and Systems' as it is one of the core subjects. Also, as it is a bit complex Concept it requires a Bridge Course. I would like to request for your permission and support to conduct the Course. It will be ensured that information delivered to students is standardized.

The objectives of the course are to enable the participating students to understand the concepts of 'Signals and Systems' which leads to new and creative ideas. It is therefore important for students to have a deep understanding of concept and to enhance their knowledge. This Bridge Course provides the background math necessary to apply and solve the complexities present in the content of course.

Kindly accord approval so as to make necessary arrangements for hosting one week Bridge Course on 'Signals and Systems'
Thanking you.

EAD HEAD

Department of Electronics & Communication | Global Institute of Engineering & Techno Chilkur (V)., Moinabad (M)., R.R. Dist.T.S.-50



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Department of Electronics and Communication Engineering

## LIST OF STUDENTS ENROLLED FOR 'SIGNALS AND SYSTEMS' 2016-2017 LIST OF PARTICIPANTS

S. No	Roll No.	Name of the Student	Year	Dept
1	15U61A0401	Allu Somesh	II	ECE
2	15U61A0405	Boddu Divya	II	ECE
3	15U61A0406	Devisetty Hemanth	II	ECE
4	15U61A0408	Kadire Pavani Reddy	II	ECE
5	15U61A0409	Kambam Bhavani	II	ECE
6	15U61A0410	Karra Manoj	II	ECE
7	15U61A0412	Kedika Shushanth Reddy	II	ECE
8	15U61A0413	Kodali Sai Naveen	II	ECE
9	15U61A0414	Kodari Praveen Reddy	II	ECE
10	15U61A0415	Koluguri Sreeja	II	ECE
11	15U61A0416	Kunte Priyanka	II	ECE
12	15U61A0417	Lakkireddy Srikanth Reddy	II	ECE
13	15U61A0418	Mohammed Mosaad Lababidi	II	ECE
14	15U61A0420	Nyalam Bhanuchandar	II	ECE
15	15U61A0421	Ragi Mahender	II	ECE
16	15U61A0425	Syed Atif Sadath	II	ECE
17	15U61A0428	Vinay Uniyal	II	ECE
18	16U61A0401	L Mahesh	II	ECE

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## Department of Electronics and Communication Engineering

## **COURSE SYLLABUS FOR 'SIGNALS AND SYSTEMS'**

S.no	Topics to delivered	Duration (in hours)
1	Introduction to signals and systems	3
2	Classification of signals	3
3	Orthogonality of signals	3
4	Linear Time Invariant (LTI) Systems	3
5	Fourier series representation of signals.	3
6	Conversion of Continuous to discrete signals	3
7	Fourier transformations of signals	3
8	Laplace transformations of signals	3
9	Z- transformations of signals	3
10	Convolution of signals	3
11	Correlation of signals	3

Coordinator

Department of Electronics & Communication Engg. Global Institute of Lagracering & Technology Chilkur (V)., Moinabad (M)., R.R. Dist.T.S.-501504

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Department of Electronics and Communication Engineering

One Week Bridge Course On Signals and Systems (22<sup>nd</sup> to 27<sup>th</sup> August, 2016)

## PROGRAMME SCHEDULE

	Fore	noon	Afternoon			
Day1	Inauguration	Introduction to Signals and Systems Dr.S.Padam priyal Professor, Dept of ECE, GIET	Classification of Signals Dr. C. Shyam Anand Professor, Dept of ECE,GIET			
Day2	Orthogonality Mr.G Ahmed Zees Asst.prof&Head,L	chan,	Linear Time Invariant (LTI) Systems Dr.S.Padam priyal Professor, Dept of ECE, GIET			
Day3	Fourier series Signals. Mr.G. Ahmed Zee Asst.prof&Head,I		Conversion of Continuous to Discrete Signals Mrs .Nuzath Unnisa Assistant professor, Dept of ECE GIET			
Day4	Fourier Trans Signals Mrs .Nuzath Unni Assistant professo		Laplace Transformations of Signals Dr. C. Shyam Anand Professor, Dept of ECE,GIET			
Day5		ations of Signals and Professor, Dept of	Convolution of Signals Dr.S.Padam priyal Professor, Dept of ECE, GIET			
Day6	Correlation of Dr.S.Padam priya Professor, Dept of	ıl	Valedictory& Feedback			

Coordinator Dr.S. Padam priyal Professor Department of ECE



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## One Week Bridge Course

(22nd-27th August, 2016) ATTENDANCE SHEET Signals and Systems

B.Tech II B.Tech III B.Tech II B.Tec	SIGNATURE	Day-1 Day-2 Day-3 Day-4 Day-5 Day-6	(22/08/2016) (23/08/2016) (24/08/2016) (25/08/2016) (26/08/2016) (27/08/2016)	THE AN FIN AN FIN AN FIN AN FIN AN FIN AN	point ploner prond prond prond prond prond prond prond	is a large of the give some state and large can being	now them shown your your your your your your your your	C. Pari & Dans C. Densi	Showing Showing Showing Showing Ald Shows
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					Allu Somesh B.Tech	Boddu Divya B.Tech	Devisetty B.Tech Hemanth	Kadire Pavani B.Tech Reddy	Kambam Bhavani B.Tech





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Department of Electronics and Communication Engineering EAMCET Code-GLOB 

## One Week Bridge Course

(22nd-27th August, 2016) Signals and Systems

## ATTENDANCE SHEET

									SIGN	SIGNATURE					
S.No	Name of the	Programme	Year	Q	Day-1	Da	Day-2	D	Day-3	Ď	Day-4	Da	Day-5	Day-6	9-/
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One Week Bridge Course

On Signals and Systems (22<sup>nd</sup>-27<sup>th</sup> August,2016) ATTENDANCE SHEET

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EAMCET Code-GLOB

Department of Electronics and Communication Engineering

## One Week Bridge Course

(22nd-27th August, 2016) ATTENDANCE SHEET Signals and Systems

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	Name of the	Participant		16 Syed Atif Sadath	Vinay Uniyal	18 L.Mahesh
	S. S.	ovi.c		16	17	18





Head of the Department Chilkur (V)., Moh

Chilkur (Principal R. R. Dist Hobal Instit

## REPORT

## ONE WEEK BRIDGE COURSE ON SIGNALS AND SYSTEMS

One Week Bridge course on 'Signals and Systems, was organized by the Department of Electronics and Communication Engineering. One week Bridge course was held in the Conference Room of GIET from 22<sup>nd</sup> to 27<sup>th</sup> August, 2016 and its objective was to further enhance and strengthen the technical skills of the students in the Signal processing in ECE. The course was attended by 18 students of Electronics and Communication Engineering Department (A.Y. 2016-17). Evaluation forms were also filled by each participant at the end of the course.

### Day 1:

The course started off with the inaugural ceremony and the Coordinator of this occasion, Mrs Padam Priyal, Professor, Department of ECE welcomed the gathering. Later in the inauguration, Mrs Padam Priyal Professor, Dept of ECE, GIET delivered her inaugural and introductory speech at 10.00 AM in which she gave her energetic talk on 'Introduction to signals and systems'. In this she explained students about the basics like a signal could be an analog quantity that means it is defined with respect to the time. It is a continuous signal. These signals are defined over continuous independent variables. They are difficult to analyze, as they carry a huge number of values. They are very much accurate due to a large sample of values. In order to store these signals, you require an infinite memory because it can achieve infinite values on a real line. Analog signals are denoted by sin waves. In the afternoon session Dr. C Shyam Anand Professor, Dept of ECE, GIET emphasized with a brief lecture on the 'Classification of signals'. In this he highlighted on different categories of signals like continuous and discrete signals.

### Day 2:

On Second day, forenoon session was taken by Mr. G Ahmed Zeeshan, Asst.prof&Head, Dept of ECE, GIET in which he delivered a lecture on 'Orthogonality of signals'. He said that An important characteristic of signals that are orthogonal (i.e., uncorrelated) is that when they are combined or added together they do not interact with one another. This noninterference comes in handy when we represent a complicated signal with a collection of more basic signals. If the basic signals are orthogonal, you can determine each one independently without worrying about the other signals in the collection. In the afternoon session Dr. Mrs Padam priyal, Professor, Dept of ECE, GIET delivered her lecture on 'Linear

Time Invariant (LTI) Systems', in which she said that Linear time-invariant theory, commonly known as LTI system theory, investigates the response of a linear and time-invariant system to an arbitrary input signal. Trajectories of these systems are commonly measured and tracked as they move through time (e.g., an acoustic waveform), but in applications like image processing and field theory, the LTI systems also have trajectories in spatial dimensions. Thus, these systems are also called linear translation-invariant to give the theory the most general reach. In the case of generic discrete-time (i.e., sampled) systems, linear shift-invariant is the corresponding term.

### Day 3:

On third day, forenoon session was on 'Fourier series representation of signals' by Mr. G Ahmed Zeeshan, Asst.prof&Head, Dept of ECE,GIET, in which he spoke about The Fourier Series is a specialized tool that allows for any periodic signal (subject to certain conditions) to be decomposed into an infinite sum of everlasting sinusoids. This may not be obvious to many people, but it is demonstrable both mathematically and graphically. Practically, this allows the user of the Fourier Series to understand a periodic signal as the sum of various frequency components. In the afternoon session Mrs. Nuzath Unnisa, Assistant professor, Dept of ECE GIET lectured on 'Conversion of Continuous to discrete signals' which includes ability to convert an analog signal to a discrete-time sequence via sampling, ability to construct an analog signal from a discrete-time sequence and understanding the conditions when a sampled signal can uniquely represent its analog counterpart.

## Day 4:

On fourth day, forenoon session was a lecture on 'Fourier transformations of signals' by, Mrs .Nuzath Unnisa, Assistant professor, Dept of ECE GIET in which she said that The Fourier transform (FT) decomposes a function of time (a signal) into its constituent frequencies. This is similar to the way a musical chord can be expressed in terms of the volumes and frequencies of its constituent notes. The term Fourier transform refers to both the frequency domain representation and the mathematical operation that associates the frequency domain representation to a function of time. The Fourier transform of a function of time is itself a complex-valued function of frequency, whose magnitude (modulus) represents the amount of that frequency present in the original function, and whose argument is the phase offset of the basic sinusoid in that frequency. The next session was a lecture on 'Laplace transformations of signals' by Dr. C. Shyam Anand Professor, Dept of ECE, GIET.

## Day 5:

On fifth day the forenoon session started with a lecture on 'Z- transformations of signals' by Dr. C. Shyam Anand Professor, Dept of ECE, GIET in which he said that The Z transform is a generalization of the Discrete-Time Fourier Transform. It is used because the DTFT does not converge/exist for many important signals, and yet does for the z-transform. It is also used because it is notationally cleaner than the DTFT. In contrast to the DTFT, instead of using complex exponentials, with purely imaginary parameters, the Z transform uses the more general, zn, where z is complex. The Z-transform thus allows one to bring in the power of complex variable theory into Digital Signal Processing. The next session was 'Convolution of signals' by Dr.S.Padam priyal, Professor, Dept of ECE, GIET

## Day 6:

The final day forenoon session was a lecture on 'Correlation of signals' by Dr. S. Padam priyal, Professor, Dept of ECE, GIET. This included the topics like, A signal operation similar to signal convolution, but with completely different physical meaning, is signal correlation. The signal correlation operation can be performed either with one signal (auto-correlation) or between two different signals (cross-correlation). Physically, signal autocorrelation indicates how the signal energy (power) is distributed within the signal, and as such is used to measure the signal power. Typical applications of signal autocorrelation are in radar, sonar, satellite, and wireless communications systems. Valediction was conducted in the afternoon session. Feedback for the course was taken from the students. Participation Certificates were also given for all the students.

Coordinator

Dr. S. Padam Priyal

Professor

Department of ECE



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## Department of Electronics and Communication Engineering

Attendance Sheet of Bridge course on 'Signals and Systems'

S. NO	H.T.No	NAME OF THE PARTICIPANT	Year	Dept	22/08/2016	23/08/2016	24/08/2016	25/08/2016	26/08/2016	27/08/2016	Total	Percentage
1	15U61A0401	Allu Somesh	II	ECE	6	6	6	6	6	6	30	100
2	15U61A0405	Boddu Divya	II	ECE	6	6	6	6	6	6	36	100
3	15U61A0406	Devisetty Hemanth	II	ECE	6	6	6	6	0	6	30	83.3
4	15U61A0408	Kadire Pavani Reddy	II	ECE	6	6	6	6	6	6	36	100
5	15U61A0409	Kambam Bhavani	П	ECE	6	.0	6	6	6	6	30	83.3
6	15U61A0410	Karra Manoj	II	ECE	6	6	6	6	6	0	30	83.3
7	15U61A0412	Kedika Shushanth Reddy	II	ECE	6	0	6	6	6	6	30	83.3
8	T5U61A0413	Kodalı Saı Naveen	II	ECE	6	6	6	6	0	6	30	83.3
9	15U61A0414	Kodari Praveen Reddy	II	ECE.	. 6	6	6	6	6	6	36	100
10	15U61A0415	Koluguri Sreeja	II	ECE	6	6	6	6	6	6	36	100
11	15U61A0416	Kunte Priyanka	II	ECE	6-	0	6	6	6	6	30	83.3
12	15U61A0417	Lakkireddy Srikanth Reddy	II	ECE	6	6	6	6	6	6	36	100
13	15U61A0418	Mohammed Mosaad Lababidi	II	ECE	6	6	6	0	6	6	30	
14	15U61A0420	Nyalam Bhanuchandar	II	ECE	6	6	6	0	6	6	30	
15	15U61A0421	Ragi Mahender	П	ECE	6	6	6	6	6	6	36	
16	15U61A0425	Syed Atif Sadath	II	ECE	6	6	6	6	6	6	36	
17	15U61A0428	Vinay Uniyal	II	ECE	6	6	0	6	6	6	30	83.3
18	16U61A0401	L Mahesh	II	ECE	6	6	6	6	6	0	30	83.3



HEAD HEAD

Department of Electronic Communication Global Institute of Englacering & Techn Chilkur (V)., Moinabad (M)., R.R. Dist.T.S.

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Any Other Comments:

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## Department of Electronics and Communication Engineering

One Week Bridge Course On Signals and Systems (22<sup>nd</sup>-27<sup>th</sup> August,2016)

## FEEDBACK FORM

Please valuate your rating of the course by placing a tick in the appropriate box.

1. Poor 2. Satisfactory 3. Good 4. Very good 5. Excellent

Branch and Year: EEL Year			Ι	Date: 27/08	12016
ASPECTS			RATING		
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor
Relevance of contents	/			-	1
Trainer was knowledgeable and skillful	. /				
Quality of input provided					
Quality of presentations		/			
Adherence to the time schedule		1			
Opportunity given to participant to clear doubts		//			
Identify ways to build on current skills and knowledge	1				
Overall learning experience					
How has the course enhanced your skills or und  It is very good course  Specify problems food by your decided.	e, soin	f this topic?	ledge t	rom this	Course -
Specify problems faced by you during the cours	se?				