



JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

UGC - AUTONOMOUS

Permanently Affiliated to JNTUH, Accredited by NBA, Recognised Under UGC 2 (f) & 12 (b)

NARSAMPET, WARANGAL - 506332

Name of the Programme

3. Signal Processing
Techniques for
Advance Wireless
Communications
Phase -III



**SUBMISSION OF REPORT
on**

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

SPONSORED

SHORT TERM TRAINING PROGRAM(STTP)

**“Signal Processing Techniques for Advanced
Wireless Communications”**

**Online mode
(Phase-I to Phase-IV)**

**Organized by
Department of Electronics and Communication Engineering.
(Accredited by NBA)**



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All India Council for Technical Education(AICTE) Sponsored
Short Term Training Programme(STTP)

Phase-II
Online Mode
On

“ Signal Processing Techniques for Advanced Wireless Communication ”

21th to 26th September 2020

Organized by
Department of Electronics and Communication Engineering
(Accredited by NBA)

Register Now:



OR

<https://bit.ly/2DCsldz>

Our Speakers

Dr.Ch.Devender Reddy



Secretary & Correspondant
Jayamukhi Education Society
Narsampet, Warangal Rural

Sri.T.V.R.N.Reddy



Joint Secretary
Jayamukhi Educational Society
Narsampet, Warangal Rural

Prof.K.Kishan Rao



Rtd. Principal[ECE Warangal]
Founder Principal and Advisor,
JITS

Prof.Arif Wasim



Professor of ECE,
NIT
Silchar

Prof.D.Srinivasa Rao



Professor of ECE,
JNTUCE
Hyderabad

Dr.H.C.Hadimani



Professor & Head,ECE
GNIT Dwarangere,
Karnataka

Dr.T.V.Ramana



Associate Professor,
Dept. of ECE,
GITAM University

Dr.S.Anuradha



Associate Professor
Dept. of ECE
NIT Warangal.

Dr.P.Krishna



Professor of ECE
JITS
Narsampet, Warangal Rural

Dr.Chhagan Charan



Dept of ECE
NIT
Kurukshetra

Dr.M.Lokanadha Rao



Principal
JITS
Narsampet, Warangal Rural

Prof.P.Rangaiah



Director
JITS
Narsampet, Warangal Rural

Hameed Pasha Mohammad



Associate Professor and Head
Department of ECE
JITS

Dr.Ghanshyam Singh



Professor,
Department of ECE
JITS

Dr.S.Sandhya Rani



Associate Professor,
Department of ECE
JITS

Dr.M.Krishna Samy



Associate Professor,
Department of ECE,
JITS

Dr.K.Sunil Kumar



Associate Professor,
Dept of ECE,
VITS

Nayanika Srivastava



Dept of Electronics Engineering,
Harcourt Butler Technical University,
Kanpur

Mr.M.Shashidhar



Associate Professor,
Dept. of ECE,
VCEW

Registration Fee :

Free online STTP Sponsored by AICTE

Register Now:



Or

www.jayamukhi.ac.in

Important Dates:

Last date for Registration : 21th Oct 2020

Notification of Selection : 23rd Oct 2020

Venue: After registration, selected participants will get online session details through registered emails.

Certificates will only be issued to those participants who have attended regularly and qualify in the exam with minimum 60% marks.

Benefits to Participants:

This STTP on Signal Processing Techniques for Advanced Communication Technologies is a new technological development in the era of Communication. Your association will benefit with an outstanding exposure to the technology incorporated in advances in signal processing and communication.

Level of Participants

Faculty working in AICTE approved institutes having a zeal to rigorous research In the field of signal processing for wireless communication, industry and academia persons are eligible.

Chief Patron :

Dr.Ch.Devender Reddy,
Secretary and Correspondant

Patron :

Sri.T.V.R.N.Reddy, Joint Secretary
Dr.M.Lokanadha Rao, Principal
Prof.P.Rangaiah, Director.

Coordinator :

Dr.Krishna Patteti, Professor of ECE

Organizing Committee:

Dr.Sriram Sandhya Rani
Dr.Ghanshyam Singh
Dr.M.Krishna Samy
Zulekha Tabassum^{M.Tech}
Mr. Sk Masthan^{M.Tech, (Ph.D)}
Mr. V. Madhu kumar^{M.Tech, (Ph.D)}
Mr. S. Sunil^{M.Tech, (Ph.D)}
Mr. M. Manoj kumar^{M.Tech, (Ph.D)}
Mr. D. Prasad^{M.Tech, (Ph.D)}
Mr. N. Sukumar^{M.Tech}
Mr. M. Sridhar^{M.Tech}
Mr. S. Kalyan^{M.Tech}
Mr. A. Govind^{M.Tech}

Convener:

Hameed Pasha Mohammad
Associate Professor and Head
Department of
Electronics and Communication Engineering
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+91-94903 77766



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Narsampet, Warangal rural - 506 332

AICTE Sponsored

Short Term Training Program(STTP)

(Online Mode)

Phase - III

F.No : 34-65/193/RIFD/STTP/
Policy-1/2018-19 Dated 10.01.2020

**Signal Processing Techniques for
Advanced Wireless Communication
Technologies**

(26th to 31th October 2020)



Organized by
**Department of
Electronics and Communication Engineering**
(Accredited by NBA)

About Jayamukhi

Sponsored by the Jayamukhi Educational Society, the Jayamukhi Institute of Technological Sciences came into being in 2001 to provide quality and contemporary education with social relevance in the engineering faculty with an ultimate vision to maintain global standards in higher learning and research. The Institute has the approval of AICTE and recognized by the Government of Telangana. It is permanently affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, UGC Autonomous & accredited by NBA.

The Institute has come upon 40 acres of green pastures in Narsampet, about 30km away from the historic city of Warangal and presents a picturesque and panoramic view. JITS offers a four-year B.Tech. Programme in the disciplines of CSE, ECE, EEE, CIVIL and ME. M.Tech Programme in Computer Science and Engineering, Embedded Systems, Power Systems and Control Automation, and CAD/CAM.

Department of ECE

Department of Electronics and Communication Engineering has set vision "To be a premier department for education in Electronics and Communication Engineering in state of Telangana, moulding students into professional engineers". The department imparts state of the art education and encourages cutting edge research. It offers UG program, PG programs in VLSI and ES. Well equipped Laboratories have been facilitated for the Students, research Scholars and the 50 Lakhs of funds generated from AICTE under various schemes like MODROBS, FDPs, STTPs. Received TEQIP-III fund from JNTU Hyderabad. Established two laboratories namely Internet of Things (IoT) and Robotics sponsored by Texas Instruments USA.

Resource Persons:

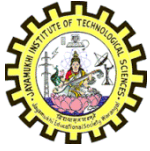
1. Prof.K.Kishan Rao, Professor of ECE, Advisor JITS
2. Sri.B.Jaipal Reddy, Chief Managing Director, Apollo Computing Laboratories
3. Dr.Indumati T S, Professor of ECE, VTU Belagavi
4. Dr.A.Rajani, Associate Professor, Dept. of ECE, JNTUCEH
5. Dr.M.Gangadharappa, Professor of ECE, ABACTR New Delhi
6. Dr.H.C.Hadimani, Professor and Head, GMIT Devarangere, Karnataka
7. Dr.S.Anuradha, Associate Professor, Dept. of ECE, NIT Warangal
8. Dr.P.Krishna, Professor and Coordinator STTP.
9. Dr.Ghanshyam Singh, Associate Professor, Dept. of ECE, JITS
10. Dr.S.Sandhya Rani, Associate Professor, Dept. of ECE, JITS
11. Dr.M.Krishna Samy, Associate Professor, Dept. of ECE, JITS
12. Dr.K.Sunil Kumar, Associate Professor, Dept. of ECE, VITS, Hasarpurthy
13. Mr.M.Shashidhar, Associate Professor, Dept. of ECE, VCE Warangal
14. Mr.A.Madhu Sudhan, Senior Application Engineer.

ABOUT STTP

This STTP aims at providing strong theoretical background along with practical experience in the field of signal processing techniques in wireless communications. Signal processing Techniques, algorithms and architectures have an increasingly important role to play in meeting the central challenges faced in the design of advanced wireless communication systems. In Wireless Communication: Signal Processing Perspectives, leaders in the field describe state-of-the-art research in applying signal processing methodologies in the context of tomorrow's most important wireless applications, ranging from next-generation cellular telephony and personal communication services, to nomadic computing and wireless multimedia.

Major Course Contents:

1. Introduction to wireless communications: Wireless Channels and Fundamental limits in wireless Transmission.
2. Diversity combining Techniques, Space time coding.
3. MIMO Transmission and Detection Techniques.
4. Channel Estimations and Equalization Techniques
5. Digital Modulation Techniques Wireless Communications.
6. Multicarrier Modulation Systems.
7. Signal Processing techniques for 4G and 5G Communications.



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SCIENCES**

(An Autonomous Institution)

Narsampet, Warangal – 506 332(Telangana)



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Short Term Training Program(STTP)

Phase-III

(Online Mode)

Offer letter F.No : 34-65/193/RIFD/STTP/Policy-1/2018-19 Dated:10.01.2020.

Signal Processing Techniques for Advanced Wireless

Communications

26th to 31st October 2020


Organized by

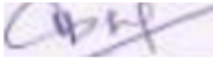
Department of Electronics and Communication Engineering

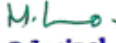
(Accredited by NBA)

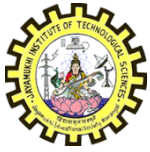
Schedule- online STTP Phase-III
Online mode platform: GOOGLE MEET

S.No	Date & Day	Session-I 10.00 A.M to 12:00 P.M		Session-II 2:00 P.M to 4:00 P.M
1.	26-10-2020 (Monday)	Inaugration Ceremony & Introduction to Wireless Communications Prof.K.Kishan Rao, Rtd.Professor of ECE, NIT Warangal & Advisor JITS	L U N C H B R E A K	Research Challenges in Wireless Communication and Networking Prof.P. Krishna, Professor of ECE & Coordinador STTP
2.	27-10-2020 (Tuesday)	MIMO Transmission and Detection Techniques Dr.H.C.Hadimani, Professor & Head, Dept.of ECE GMIT-Davangere(Karnataka)		Simulation of Space Time Trellis Codes Design with simple Decoding for MIMO communication Systems using MATLAB Dr.M.Krishna Samy Associate Professor, JITS ECE
3.	28-10-2020 (Wednesday)	Signal Processing Techniques for 4G and 5G Communication Dr.H.C.Hadimani Professor & Head, Dept.of ECE GMIT-Davangere(Karnataka)		Channel Estimation and Detection Mr.K.Sunil Kumar Associate Professor VITS Hasanparthy
4.	29-10-2020 (Thursday)	Dr.Indumathi T S Professor of ECE, VTU Belagavi Wireless Optical Communication-emerging technology		Fading Channel Modeling Dr.S.Anuradha Associate Professor, Dept.of ECE,NIT Warangal
5.	30-10-2020 (Friday)	Beamforming in MIMO communication Dr.A.Rajani Professor of ECE, JNTUH		Dr.Gangadharappa Professor of ECE, AIACTR NewDelhi President IIC cell under MHRD
6.	31-10-2020 (Saturday)	Dr.T.V.Ramana Professor of ECE GITAM University		Demonstration Signal Processing and Communication Tools by Sri. Madhusudhan, Sr.Application Engineer followed by Online Test, Feedback on STTP and Valedictory


Coordinator
Dr Krishna Patteti
Professor of ECE
COORDINATOR


Convener
Hameed Pasha Mohammad
HoD-ECE


Principal
Jayankshi Institute of Technological Sciences
Warangal-506332.
Dr M Lokanadha Rao



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AICTE Sponsored
Short Term Training Programme(STTP)
Online Mode
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Accredited by NBA
26th to 31st October 2020
AGENDA
26.10.2020 at 10:00AM

S.No	Time	Item	Speaker
1.	9:45AM	online link to Participants for joining the STTP	Dr.S.Sandhya Rani
2.	10:00AM	Welcome address by, Joint Secretary- Jayamukhi Education Society	Sri.T.V.R.N.Reddy
3.	10:05AM	Report on AICTE sponsored STTP on Signal Processing Techniques for Advanced Wireless Communication	Dr.Krishna Patteti Coordinator, STTP
4.	10:10AM	Address by Head of the Department	Hameed Pasha Mohd
5.	10:15AM	Address by Director	Prof.P.Rangaiah
6.	10:20AM	Introduce the Guest of Honor and Key note Speaker	Zulekha Tabassum
7.	10:25 AM	Keynote Address about STTP	Prof.K.Kishan Rao
8.	10:35A.M	Introduce the Chief Guest	Zulekha Tabassum
9.	10:40AM	Inaugural Address about STTP by Chief Guest :	Sri.B.Jaipal Reddy
10.	10:50AM	Presidential remarks by Principal	Dr.M.Lokanadha Rao Principal, JITS
11.	11:00AM	Vote of Thanks	Dr.S.Sandhya Rani

Online Mode : Google Meet

Link for the meeting : <https://bit.ly/31DdGYw>



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Phase-III

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On

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Inauguration

Inaugural Address

by

Sri.B.Jaigal Reddy,
Chief Managing Director,
Apollo Computing Laboratories



Keynote Address

by

Prof.K.Kishan Rao,
Professor of ECE,
Advisor JITS



Welcome Address

by

Sri.T.V.R.N.Reddy,
Joint Secretary,
JITS



Address

by

Prof.M.Lokanadha Rao,
Principal and President of
Inaugural Function



Address

by

Prof.P.Rangalah,
Director
JITS



Coordinator Report

Dr.Krishna Patteti,
Professor of ECE
JITS



Organizer

Mr.Hameed Pasha Mohammad
Head of ECE Dept
JITS



Organizer

Dr. Sandhya Rani
Associate Professor
Dept of ECE, JITS



Join us:

<https://bit.ly/31DdGYw>



26th October 2020, 10:00 AM (IST)

Resource Persons:

1. Prof.K.Kishan Rao, Professor of ECE, Advisor JITS
2. Sri.B.Jaipal Reddy, chief Managing Director, Apollo Computing Laboratories
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Short Term Training Programme(STTP) Online Mode

PHASE-III

“Signal Processing Techniques for Advanced Wireless Communication”

26th to 31st October 2020

Valedictory Proceedings

31.10.2020



S.No	Time	Item	Speaker
1.	3.00PM	Welcome the Participants, Guests and other Dignitaries	Dr.S.Sandhya Rani Associate Professor, ECE
2.	3.05PM	Report on AICTE sponsored STTP on Signal Processing Techniques for Advanced Wireless Communication Technologies”	Dr.Patteti Krishna Coordinator, STTP
3.	3:10PM	Feedback from the Participants	Participants
4.	3:30PM	Address by Director	Prof.P.Rangaiah
5.	3:35PM	Address by Sri.T.V.R.N.Reddy	Joint Secretary-Jayamukhi Educational Society
6.	3:40PM	Introduce the Guest of Honor : Prof.K.Kishan Rao	Zulekha Tabassum
7.	3:45	Address by Guest Honor	Prof.K.Kishan Rao
8.	3:50PM	Introduce the Chief guest Dr.M.Gangadharappa, Professor of ECE. President IIC under MHRD	Zulekha Tabassum
9.	3:55PM	Valedictory Address	Dr.M.Gangadharappa
10.	4:00PM	Presidential remarks by Principal	Dr.M.Lokanadha Rao Principal, JITS
11.	4:05PM	Vote of Thanks	Hameed Pasha Mohammad Head, Dept.of ECE

Online Mode : Google Meet

Host by : Dr.S.Sandhya Rani, Associate Professor

Organizing Team :

Dr.Ghanshyam Singh, Professor of ECE

Dr.M.Krishna Samy, Associate Professor

Zulekha Tabassum, Associate Professor

S.K.Mastan, Associate Professor

V.Madhu Kumar, Associate Professor

Technical Support : Mr.S.Naveen B.Tech IV Year