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NARSAMPET, WARANGAL - 506332

A. Signal Processing Techniques for Advance Wireless Communications Phase -II



SUBMISSION OF REPORT

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)



JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

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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:



https://bit.ly/2DCsldz

Our Speakers





Secretary & Correspondent Javamukhi Education Society Narsampet, Warangai Rural



Joint Secretary Jayamukhi Educational Society Narsampet, Warangal Rural

Prof.P.Rangaiah



Rtd. Principal REC Watangal Founder Principal and Advisor,



Professor of ECE. Sikhair



Professor of ECE. INTLICE Hwderabad



Professor & Head,ECE GMIT Devangere, Kamataki



Accordate Durfactor Dept. of ECE, Gitam University



Associate Professor Dept. of ECE MIT Warangal. Narsampet, Warangal Rural



Analysises of SCE



Dept of ECE NIT Kurkshetra

Dr.M.Lokanadha Rao



Narsampet, Warangal Rural

Narsampet, Warangal Rural

Hameed Pasha Mohammad

Associate Professor and Head Department of ECE

Dr.Ghanshyam Singh



Department of ECE



Associate Professor. Department of ECE



Associate Professor, Department of ECE,



Dept of ECE.

VITS



Associate Professor, Deptof Electronics Engineering,



Dept. of ECE, Harcourt Butler Technical University, Kanpur



Registration Fee:

Free online STTP Sponsored by AICTE

Register Now:



https://bit.ly/2DCsldz

Important Dates:

Last date for Registration: 17th Sept 2020 Notification of Selection: 19th Sept 2020

<u>Venue:</u> 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)}

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Convener:

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Narsampet, Warangal rural - 506 332

AICTE Sponsored

Short Term Training Program(STTP) Phase - II

(Online Mode)

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

Signal Processing Techniques for Advanced Wireless Communication Technologies

(21st to 26th September 2020)



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

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 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 TEOIP-III fund from JNTU Hyderabad. Established two laboratories namely Internet of Things(IoT) and Robotics sponsored by Texas Instruments USA.

Resource Persons:

- Prof. K. Kishan Rao, Professor of ECE, Rtd.Principal, RECW(NITW)
- 2. Prof. Arif Wasim, Professor of ECE, NIT Silchair
- 3. Prof. D. Srinivasa Rao, Professor of ECE, INTUH
- 4. Dr.H.C.Hadi Mani, Professor of ECE, VTU Belagavi
- Dr.S.Anuradha, Associate Professor, Dept. of ECE, NIT Warangal.
- 6. Dr. T. V. Ramana, Associate Professor, GITAM UNIVERSITY
- 7. Dr. P. Krishna, Professor of ECE, ITTS
- 8. Dr.K.Sunil Kumar, Assistant Professor, Dept. of ECE, VITS.
- Mr.M.Shahsidhar, Associate Professor and Head, ECE, VCE, Warangal.
- 10. Dr.M. Krishna Samy, Associate Professor, Dept. of ECE, 3175
- 11. Dr.S.Sandhya Rani, Associate Professor, Dept. of ECE, 3175.
- 12. Ms.Nayanica Srivastava, Assistant Professor, Harcourt Butler Technical University, Kanpur
- 13. Mr.A.Madhu Sudan, 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:

- I.Introduction to wireless communications:
 Wireless Channels and Fundamental limits in wireless Transmission.
- Diversity combining Techniques, Space time coding.
- 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.

LIST OF SPEAKERS:

- 1. Prof.K.Kishan Rao, Professor of ECE, Rtd.Principal, RECW(NITW)
- 2. Prof.Arif Wasim, Professor of ECE, NIT Silchair
- 3. Prof.D.Srinivasa Rao, Professor of ECE, JNTUH
- 4. Dr.H.C.Hadimani, Professor and Head, ECE GMIT, Davangere, Karnataka
- 5. Dr.S.Anuradha, Associate Professor, Dept.of ECE, NIT Warangal.
- 6. Dr.P.Krishna, Professor of ECE, JITS
- 7. Dr.K.Sunil Kumar, Assistant Professor, Dept.of ECE, NIT Warangal.
- 8. Mr.M.Shahsidhar, Associate Professor and Head, ECE, VCE, Warangal.
- 9. Dr.M.Krishna Samy, Associate Professor, Dept.of ECE, JITS
- 10.Dr.S.Sandhya Rani, Associate Professor, Dept. of ECE, JITS.
- 11.Ms.Nayanica Srivastava, Assistant Professor, Harcourt Butler Technical University, Kanpur
- 12.Mr.A.Madhu Sudan, Senior Application Engineer, Hyderabad.





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Narsampet, Warangal – 506 332(Telangana)

All India Council for Technical Education(AICTE) Sponsored

Short Term Training Program(STTP) Phase-II

(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

21st to 26th September 2020

Organized by

Department of Electronics and Communication Engineering

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Schedule- AICTE Sponsored online STTP

"Signal Processing Techniques for Advanced Communications"

Online mode platform: GOOGLE MEET

S.No	Date & Day	Session-I 10.00 A.M to 12:00 P.M	L	Session-II 2:00 P.M to 4:00 P.M
1.	21-09-2020 (Monday)	Inaugural Session of STTP Session by Prof.Arif Wasim Professor of ECE, NIT Silchair	U N C H	Introduction to Wireless Communication NAYANICA SRIVASTAVA Department of Electronics Engineering, Harcourt Butler Technical University,
2.	22-09-2020 (Tuesday)	MIMO Transmission and Detection Techniques. Dr.H.C.Hadimani, Professor of ECE, VTU Belagavi	B R	Kanpur Multiple Access Techniques for 5G Dr.P.Krishna Professor of ECE
3.	23-09-2020 (Wednesday)	Cognitive Radio networks a enabling technology for next gen wireless communications Dr.Chhagan Charan NIT Kurkshetra	E A K	Coding Techniques Dr.S.Anuradha Associate Professor Dept.of ECE NIT Warangal.
4.	24-09-2020 (Thursday)	Signal Processing Techniques for 4G and 5G Communications Dr.H.C.Hadimani, Professor of ECE, VTU Belagavi		Issues and Challenges in Wireless Networks Prof.D.Srinivasa Rao Professor of ECE, JNTUCE Hyd.
5.	25-09-2020 (Friday)	Channel Estimations Dr.K.Sunil Kumar Associate Professor,ECE, VITS		Equalization Techniques Mr.M.Shashidhar Associate Professor, Dept.of ECE, VCEW
6.	26-09-2020 (Saturday)	Dr.T.V.Ramana Multicarrier Modulation Techniques(OFDM)		Senior Application Engineer, Hyderabad Online Exam, Feedback and Valedictory Session of STTP



Convener <u>Hameed</u> Pasha Mohammad <u>HoD</u>-ECE Principal
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AICTE Sponsored

Short Term Training Programme(STTP) Online Mode

"Signal Processing Techniques for Advanced Wireless Communication" 21^{st} to 26^{th} September 2020

Valedictory Proceedings

26.09.2020

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.T.V.Ramana, Professor, GITAM University Vizag	V.Madhu Kumar Associate Professor,ECE
9.	3:55PM	Valedictory Address	Dr.T.V.Ramana
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 Technical Support : Zulekha Tabassum, Associate Professor

S.K.Mastan, Associate Professor

D.Prasad, Assistant Professor

S.Sunil, Assistant Professor