



A REPORT on

**ARTIFICIAL INTELLIGENCE
AND INTERNET OF THINGS
FOR BUILDING SIGNAL
PROCESSING APPLICATIONS**

Duration : 11th December to 16th December, 2023

FDP on ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS

AICTE-ATAL sponsored Faculty Development Programme was conducted from 11th December to 16th December 2023, to which 73 faculties/scholars had enrolled and of which 50 had approved and 38 were actively participated from various Institutions of Telangana, Andhra Pradesh and Karnataka. The speakers for the 6-day FDP on “ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS FOR BUILDING SIGNAL PROCESSING APPLICATIONS” were as follows:

Dr.T. Kishore Kumar, Senior Professor-ECE, NIT Warangal



Education

- PhD awarded from JNTUH in the year 2004
- M.Tech.degree in Digital Systems and Computer Electronics from JNTUH in the year 1996
- B.Tech. - ECE degree from Sri Venkateswara University, Tirupati in the year 1992

Experience

From 1999 – till date as Professor in the Dept. of ECE, NIT Warangal

Research Interests:

- Artificial Intelligence and Machine Learning for Speech
- Image and Medical Applications
- AI in healthcare
- Adaptive signal Processing
- Advanced digital system design
- Internet of Things
- Real Time Embedded Systems

Dr.R. S.SaiRam, Director, Limon FLIP Solutions, Hyderabad.



Education

- PhD from IIITH (2019)
- M.Tech.in VLSI from JNTUK (2012)

Experience

- Director, Lemon Flip Solutions, Hyderabad
- Silicon Labs – Associate Engineering Manager
- Lead Engineer in Redpine Signals Limited
- Senior Design Engineer in Redpine Signals Limited

Dr. I. Earnest Paul, Assistant Professor-CSE, NIT Warangal.



Education

- PhD in CSE from IITH (2017)
- M.Tech.in CSE from IITK(2007)
- B.Tech. in CSE from JNTUH (2005)

Experience

- 6 years of Teaching Experience
- As an IT Manager in Morgan Stanley

Research Interests

- Visual Analytics
- Video content Analysis
- Computer vision
- Deep Learning and Soft Computing
- Machine Learning

Dr. Ravi Bolimera, Associate Professor, NNRG, Hyderabad.



Education

- PhD in Speech Processing from NITW (2023)
- M.Tech.in Electronic Instrumentation from NITW (2012)
- B. Tech.in Electronics and Telecommunication Engineering from Vignan's Engg. college,Vadlamudi(2007)

Experience

- Associate Professor in NNRG, Hyderabad.
- Assistant Professor in Vignan University, AP.

Research Interests

- Speech Synthesis
- Signal Processing
- Deep Learning

Dr. Kodali Prakash, Assistant Professor-ECE, NIT Warangal.



Education

- PhD from IISc Bangalore (2016)
- M.Tech.from IISc Bangalore (2010)
- B.E. in Electronics and Telecommunication Engineering from JNTU.(2007)

Experience

- Assistant Professor-ECE, NIT Warangal.
- Lecturer in RGUKT-Nuzvid, AP.
- Principle Engineer in MicroXlabs, Bangalore
- Research Associate, IISc Bangalore (2017)

Dr. C.V. Krishna Reddy, Director, NNRG, Hyderabad.



Education

- PhD in Analog CMOS VLSI Design from JNTU(2007)
- M.Tech.in Applied Electronics from PSG college of Technology(1997)
- B.Tech. in RVR JC College of Engineering (1989)

Experience

- Director at NNRG from 2011 to till date
- Dean at NNRG from 2010 to 2011
- Principal at VSM Engg. College, Hyderabad
- Associate Professor at Kakatiya Institute of Technology, Warangal.

Research Interests

- VLSI design
- Embedded Design
- Signal processing

Dr. S. Ravichand, HoD-ECE, NNRG, Hyderabad.



Education

- PhD in VLSI from JNTUK Kakinada (2020)
- M.Tech.in ECE (Digital Systems and Computer Electronics) from JNTUH Hyderabad (2008)
- B.E.in Electronics and Telecommunication Engineering from Nagarjuna university Guntur, (2001)

Experience

- Professor and Head of ECE and Convenor R & D Innovation cell at NNRG, Hyderabad.
- Associate Professor at Swarnandhra Institute of Engg. And Technology, Narsapur. (2010-2021)
- Associate Professor, Sri Vishnu Engg. College for Women (2006-2010)

Area of Specialization

- VLSI and Embedded Systems

Dr. G. Mallikarjuna Rao, Scientist F, RCI/DRDO, Hyderabad.



Education

- PhD in Image Processing from JNTUH.
- Masters of Engg. From College of Engineering, Andhra University
- B.E.in Electronics and Telecommunication Engineering from Andhra University.

Experience

- Scientist F, RCI/DRDO, Hyderabad (19 years)

Awards Received

- JC Bhattacharyya Memorial Award.
- DRDO award for performance excellence 2011.
- DRDO award for performance excellence 2012.
- Technology Group Award.

AICTE – ATAL Sponsored One week offline Faculty Development Program (FDP) on “Artificial Intelligence and Internet of Things for building Signal Processing Applications”

FDP Lecture Schedule (11/12/23 to 16/12/23)

Date	11/12/23 MON	12/12/23 TUE	13/12/23 WED	14/12/23 THUR	15/12/23 FRI	16/12/23 SAT
09:00 AM- 09:30 AM	Inauguration	Session-3 Dr. I.Earnest Paul	Session -5 Prof.T.Ravi kanth	Industrial visit	Session -7 Dr. Kodali Prakash	Session -9 Dr.G.Mallikarjuna
09:30 AM - 12:00 PM	Session-1 Dr.T.Kishore Kumar Senior Professor ECE, NIT, Warangal	Assistant Professor, CSE NIT warangal	Assistant Professor CSE IIIT Basar		Assistant Professor, ECE NIT, Warangal	Scientist F, RCI/DRDO Hyderabad
12:00 PM- 12:10 PM	BREAK				BREAK	
12:10 PM – 1:10 PM	Article Discussion				Article Discussion	Reflection Journal
01:10 PM- 02:00 PM	LUNCH					
02:00 PM- 04:30 PM	Session-2 Dr.R.S.SaiRam Director Limon FLIP solutions Hyderabad	Session-4 Dr.I.Earnest Paul Assistant Professor CSE, NIT warangal	Session -6 Prof.T.Ravikanth Assistant Professor, CSE, IIIT Basar	Session Dr.Ravi Bolimera Associate Prof. & Cocoordinator,FDP NNRG, Hyderabad	Session -8 Dr.C.V.Krishna Reddy Director NNRG, Hyderabad	Session -10 Dr.C.V.KrishnaRedd y Director NNRG, Hyderabad
04:30 PM- 04:35 PM	BREAK					
04:40 PM- 05:30 PM	Practical Sessions /labs			Dr.S.Ravichand Cocoordinator,FDP Prof. & HoD,ECE NNRG, Hyderabad	Practical Sessions/labs	Feedback &Interactions Valedictory Session

LIST OF PARTICIPANTS

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The FDP inauguration was held on 11th December 2023 at 10:00 am in the Conference Hall of NNRG-School of Engineering. The Chief Guest of the program was Dr. T.Kishore Kumar (Senior Professor-ECE, NIT Warangal), and the Guest of Honors were Dr. C.V. Krishna Reddy (Director – NNRG), Dr. G. Janardhana Raju (Dean – School of Engineering, NNRG), Dr. T. Ravindra Reddy (Dean – MBA, NNRG), Dr. Ch. Krishna Mohan (Dean – Pharmacy, NNRG), and the coordinator of the FDP was Dr. Ravi Chand (Professor and Head – ECE, NNRG).

The FDP was commenced by welcome address delivered by Dr Ravi Chand followed by Deans of Pharmacy, MBA and Engineering addressed the gathering and shared the insights about college and the management. The chief guest of the program Dr. T.Kishore Kumar had delivered the Inaugural speech and motivated the participants. The glimpses of the Inaugural occasion are displayed below.



Inaugural Programme on 11th December 2023 commenced with lighting of the Lamp



The chief guest Dr. T Kishore Kumar addressing the gathering



HoD and the Program Coordinator Dr. T. Ravichand addressing the gathering



Dean-School of Engineering Dr G Janardhana Raju addressing the gathering



Group photo of the Participants along with the delegates



Glimpses of Industrial visit as a part of the workshop



Director-NNRG Dr C V Krishna Reddy delivering talk on NEP 2020



Dr G Mallikarjuna Rao, Sc-F, RCI/DRDO Hyderabad delivering talk on AI in Defence Applications

Feedback given by one of the Participants of the FDP

Date: 16-12-2023

I am so pleased to attend the AICTE-ATAL sponsored FDP on "AI and IOT for Building Signal Processing Applications" at NNRG-School of Engineering from 11th to 16th December 2023. I thank the Management of NNRG College and program coordinators for conducting such programme in the most emerging domain. It was really a nice experience to be part of this FDP programme and I definitely gained knowledge and motivated to do research in this field. The way of conduction of FDP, the sessions organized and speakers are so amazing. I wish them to organize many more in the coming future for the benefit of the faculties and students.

Thanks for the opportunity given to share my thoughts.



G. Susmitha
Assistant Professor
Dept. of ECE
VMTW

It was a great Initiative by ATAL Academy to conduct FDP for faculty members of technical institute of India at free of cost. The Program coordinators are thankful to AICTE for giving me this opportunity.

FDP Co-Coordinator

A handwritten signature in blue ink, appearing to read 'Ravi Bolimera'.

Dr. Ravi Bolimera
Associate Professor, ECE

FDP Coordinator

A handwritten signature in black ink, appearing to read 'S. Ravichand'.

Dr.S.Ravichand,
Professor & Head, ECE