





G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(For Women)

AUTONOMOUS
Shaikpet, Hyderabad – 500104
Department of ECE

Faculty Development Program on “Optimization in communication Engineering”
22nd December to 29th December 2021

S.No	Name of the document	Status
1.	Proposal by the Coordinator/Convenor to Principal along with budget, and permission for the venue.	Yes
2.	Invitation to the resource person	NA Yes
3.	Acceptance along with the bio-data	Yes
4.	Poster/brochure/Banner (Not photo)	Yes
5.	Programme schedule	Yes
6.	Circular	Yes
7.	Registration/Attendance of the participants	Yes
8.	Certificates (sample)	Yes
9.	All participants filled Feedback, analysis – action	Yes
10.	Resource person filled Feedback – plan of action	NA
11.	One page photos with atleast 6 with description as per the format	Yes
12.	Budget utilisation sheet	Yes
13.	Press note/Newspaper publication	NA
14.	Single page report as per the format	Yes


Workshop Coordinator


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G. Narayanamma Institute of
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Shaikpet, Hyderabad - 500 104


Dept HOD



**AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES
2020 - 21**



**PROFORMA FOR CONVEYING WILLINGNESS TO CONDUCT
AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES (before 24/09/2021)**

1. Name of the Institution with complete address and email id : G. Narayanamma Institute of Technology & Science (For Women) Shaikpet Road, Hyderabad-500104
2. Title of the Programme : "Optimization in Communication Engg."
3. Proposed dates preference-wise : 1) 4/10/2021 to 9/10/2021
Please give preferably three preferences 2) 15/11/2021 to 20/11/2021
3) 25/11/2021 to 30/11/2021
Program should be completed before 15th January 2022.
4. Name(s) and designation of the Coordinator(s) with mobile, WhatsApp & Email id : Dr. C. Padmaja, Asst. Prof. ECE Dept., GNITS 9502407938 padmaja.chennapragada@gmail.com
5. Designated post to which the grant is to be released? : Principal/Director/Registrar (please tick one)
6. Bank details : Name (in Bank A/c) : GNITS - AICTE
Bank A/c No. : 62080610680
Bank Name & Branch : STATE BANK OF INDIA Darga branch, Serilingampally, Hyd.
IFS Code : SBIN0020540

I agree to organise the above programme as per the guidelines and budget norms prescribed by the AICTE and ISTE. I also agree to settle the accounts of the programme within 21 days of completion of the Programme.


Signature of Coordinator

:

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Name & Designation of Head of Institute (Principal/Director/ Any other) : Dr. K. Ramesh Reddy
 Principal, GNITS, Hyderabad
 Tele (office) : 040 - 29565856
 Tele (Direct) : 040 - 29567756
 E-mail : principal@gnits.ac.in
 Mobile: 9849422460

In case of any delay in the release of funds by the AICTE/ISTE, our Institution will provide the needed funds for conduction of program as loan which will be reimbursed in due course. The final documents will be submitted within 21 days of the completion of the programme.

Signature of the Head of the Institution : 
 Email & Mobile No. : Principal@gnits.ac.in
 9849422460


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 (with office seal)
 PRINCIPAL/DIRECTOR



Please return to :

The Executive Secretary
 Indian Society for Technical Education
 Shaheed Jeet Singh Marg
 New Delhi - 110 016

Phone : 011-25963431, 011-26513542 (office)
 E-mail : isgedhq@isteonline.org,
exesecretary@isteonline.org


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**AICTE-ISTE INDUCTION/REFRESHER
PROGRAMMES – 2021-22**



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Title: OPTIMIZATION in COMMUNICATION ENGINEERING

Chief Patron

Sri P.Subba Reddy
Chairman
Smt. G.Srividya Reddy
Secretary

Patron

Dr.K.Ramesh Reddy
Principal

Program Advisors

Dr.P.V.D. Somashekar
Rao Dean Academics
Dr.P. Sudhakar Rao
Dean R&D

Organizing Committee

Convener:

Dr.B.Venkateshulu,
Professor, HOD,ECE

Coordinator:

Dr. C. Padmaja,
Assistant Professor, ECE

Dr Ravi Kumar Jatoth,

Dept. of Electronics & Communication Engineering,

NIT Warangal, ravikumar@nitw.ac.in

Mobile: 8702462444

Respected Sir,

On behalf of the management and the Organizing Committee of the AICTE-ISTE-FDP/2021-22 sponsored Induction/Refresher Program from 22/12/2021 to 29/12/2021 titled "**Optimization in Communication Engg.**", we are honored to deliver lecture on, "**Bio-inspired Algorithms for Intelligent Signal processing Case Study: PID Controller Design Using Modified Differential Evolution Algorithm**" at this event through **online mode**. The event comprising 16 technical lectures of 90 minutes each, covering the importance of optimization in signal processing and communications and apply basic concepts of mathematics to formulate an optimization problem to model an application. About 60 number of faculty are expected to attend the Induction/Refresher Program, with audience covering all faculty members from AICTE approved Institutions, research scholars, participants from Government organizations and Industries of ECE, CSE and ELECTRICAL branches. Our goal is to build awareness around the broad array of advanced topics which will ultimately benefit the faculty. Your Session will be a great addition and we believe your voice would be a critical addition to the workshop. I am also attaching the list of the proposed topics for your kind perusal. Please let us know at the earliest your acceptance to deliver the lecture on the topic.

Thank you in advance for your kind consideration, and we very much look forward to hearing from you.

**Coordinator
Dr. C. Padmaja**

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**G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS) Affiliated to JNTUH, Accredited by NBA & NAAC
SHAIKPET, HYDERABAD**



PROFILE

COURSES

PUBLICATIONS

PH.D'S SUPERVISED

WORKSHOPS/CONFERENCES

PROJECTS

AWARDS AND HONORS

ADDITIONAL RESPONSIBILITY



Dr. RAVI KUMAR JATOTH

Associate Professor

Department of Electronics & communication Engineering

National Institute of Technology, Warangal - 506004, Telangana, INDIA

✉ : ravikumar@nitw.ac.in

☎ : 8702462444

Interests: Signal Processing Algorithms, Machine Learning Algorithms
Nature Inspired Algorithms . Process Control Design,

specializations

B. E (E.C.E) Osmania University, Hyderabad

M.Tech (Electronic Instrumentation & Control Systems) , J. N. T.U, Kakinada

Ph.D, Signal Processing, . (Thesis: Some Investigations on Kalman Filtering Algorithms for Targ Tracking Applications.) , N.I.T Warangal,

Message

Self Motivation is Best Motivation

Tomorrow's problem cannot be solved with Yesterday's Technology

Course Taught Previously

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Course Taught Previously

Year				
2006-2007	4	B.Tech		Applied Electronics
2007-08	3	B.TECH	ECE220(EEE)	Analog Electronics
2008-2009	5	B.TECH	ECE320(CS)	MicroProcessor and Interfacing
2008-2009	4	B.TECH		Electronic Instrumentation & control system
2008-2009	2	B.TECH	BE 101	Basic Electronic Engg
2009-10	5	B.Tech	EC 314	LINEAR I.C. APPLICATIONS
2010-2011	2	M.Tech	EC5172	Process control instrumentation
2013-2014	1	M.Tech	EI5102	Transducers & Signal Conditioning Ckts
2014-15	7	B.Tech	EC 401	Electronic instrumentation
2014-15	8	B.Tech	EC 466	PC based Instrumentation
2015-2016	6	B.Tech	EC	Digital Signal Processing
2015-16	7	B.Tech	EC 301	Linear IC Applications
2016-2017	2	M.Tech	EC 5153	Industrial Automation and Control



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Courses Currently Being Taught



Brief Bio-data of PROF. N. S. MURTHY, Department of ECE, National Institute of Technology, Warangal – 506004- India.

Educational Qualifications:

- 1. B.E. (1972): Electronics and Communications Engineering, Govt. College of Engineering, Kakinada, affiliated to Andhra University, India.
- 2. M.S (1982): Digital Systems, EE Department, Indian Institute of Technology, Madras, India
- 3. D.I.I.Sc (1983): Electronics Design, CEDT, Indian Institute of Science, Bangalore, India.
- 4. Ph.D (1999): Department of ECE, National Institute of Technology, Warangal, India.

Academic Activities and Experience:

- **2015 onwards: Professor, Dept. Of ECE, Vasavi College of Engineering, Ibrahimbagh, Hyderabad.** Responsibilities include, in addition to teaching PG courses, M.E(ES &VLSID) project coordinator and NBA coordinator at the Institute
- **1999 onwards: Professor (and Head of the Department till Sep, 2006) Dept. of ECE,** Responsibilities include managing the UG and PG Programs, Revising the curriculum, administration, implementing various projects sanctioned by different agencies, Teaching UG and PG courses and handling their projects, guiding B.Tech, M.Tech and Ph.D students and carrying out research.
- **2007 -2009 (on Lien): Professor, School of Computer and Communication Engineering, University of Malaysia Perlis, Malaysia.:** Responsibilities include Research in the areas of Embedded Systems/ VLSI Architectures and Signal Integrity issues, Carrying out projects and teaching UG and PG students.
- **2005-06: Visiting Professor, Microelectronics Field of Study, Asian Institute of Technology, Bangkok:** Responsibilities include teaching Microelectronics PG students and guiding their projects
- **1992-99: Assistant Professor, Dept. of ECE, NIT- Warangal, India:** Responsibilities include teaching and guiding UG &PG students, carrying out research in the area of Higher Order Spectral Analysis (HOSA) applications to Leak Detection and coordinating sponsored projects

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□ **1974-85:** Scientific Officer (Engineer) SC and SD, at the Reactor Research Centre, Kalpakkam (presently Indira Gandhi Centre for Atomic Research), India. Involved in the design and development of Nuclear Instrumentation modules and systems

Some of the PG courses taught in recent years:

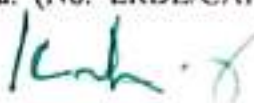
1. Device Modelling
2. VLSI System Design
3. Digital IC Design
4. VLSI_DSP Architectures
5. Advanced Digital Signal Processing
6. Low Power VLSI Design
7. PC based Instrumentation
8. Modern Spectral Estimation
9. Analog IC Design
10. Mixed Signal IC Design
11. Design for Testability

Research Activities:

- VLSI-DSP Architectures
- VLSI Interconnects - Signal Integrity Issues
- Re-configurable/FPGA/ Embedded System Architectures for Adaptive Digital Beam Forming in Radar Applications
- Low Power VLSI designs

Important Assignments/ R&D Projects:

- Dean (Planning & Development, 2011-13)
- Dean (Student Welfare 2013)
- Member of the Director's Delegation on a visit to Twelve US Universities for exploring and enhancing academic collaboration with NITW, during 11-30, April, 2013
- Coordinator, Technical Education Quality Improvement Program (TEQIP) Phase-II (World Bank and Govt. of India sponsored Project) since 2010-15
- Principal Investigator for the R&D project, "Development of Adaptive Digital Beam Forming Algorithms and Analysis for Active Phased array Radars", sponsored by LRDE,DRDO, GOI, Bangalore, India. (No. LRDE/CARS-45/RADL/2011-12).



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- Principal Investigator for the R&D project, "Higher Order Spectral Analysis Techniques for Identification of LPI Radar Signals" sponsored by the DLRL, GOI, Hyderabad, India (Contract No. DLRL / ST / 208 / 20070072).
- *Principal Investigator/ Coordinator, for the R&D Project, "Universal Modulator" sponsored by the MOSTI, Ministry of Higher Education, Malaysia while at School of Computers and Communications, University of Malaysia, Perlis, Malaysia during 2007-09. The grant is to the tune of RM 350,000/.*
- Principal Investigator for the R&D Project "Studies on VLSI Interconnects and Noise modeling" sponsored by the MHRD, Govt. of India. (2006-07).
- Co-Coordinator for the Special Manpower Development in the area of VLSI and related Software (SMDP_VLSI) project sponsored by the Ministry of Communication and IT, GOI (2000-2012)
- Coordinator, UK-India RECs Project sponsored by the Governments of UK and India (1994-98)
- also Coordinator for two more MHRD/ AICTE sponsored Projects

M.Tech/ Ph.D Theses Supervised:

- Guided more than 50 M.Tech / M.Tech (Res) projects
- Two Ph.Ds awarded and some more in pipeline
- One Ph.D scholar is in the advanced stage of synopsis submission
- Examiner for more than 25 M.Tech , 5 M.S (Res) and 12 Ph.D theses in various Universities , IITs, and NITs

Memberships and Other Activities:

- Reviewer for the International Journals (IJE, IJICT, and Atmospheric Letters)
- Chairman, Technical and Program Committee, International Conference on Electronic Systems Design (ICED-08), PPKKK, UniMAP, PERLIS, Malaysia, 2008
- FIETE: Fellow of Institute of Electronics and Telecommunication Engineers, India
- FIE: Fellow of Institution of Engineers, India
- LM (ISTE): Life Member of Indian Society for Technical Education, India
- Chairman, Board of Studies, ECE Department, NIT, Warangal, India (1999-2006)
- Member, Boards of Studies, Departments of ECE, O.U and JNTU Colletges of Engineering (Hyderabad and Kakinada), VRS Engg. College, Mallareddy College of Engineering and others
- Expert Member, Recruitment and Assessment Board, DRDO, New Delhi
- Expert Member, Faculty Selection Committee, NITT, NITK and JNTUs Hyderabad, Anantapur and Kakinada


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- Member, Selection Board (Japanese Scholarships), MHRD, Delhi

Seminars/ Workshops/ Conferences conducted – attended/ Papers Presented:

- Presented more than Thirty papers in the International and National Conferences
- Conducted Six short term courses (FDPs) and more than six workshops for the engineering college teachers in the areas of DSP and VLSI
- Delivered Expert Lectures and Keynotes in several workshops, seminars and conferences in many Engineering colleges, NITs, and R&D organizations (DRDO)
- Collaborating with LRDE, DLRL, IGCAR, CDAC, ISRO and Private Organizations like ACL, ICS, Hyderabad for R&D Projects and M.Tech projects

Publications: (A partial list of recent publications is attached)

- Around 30 International/ National Journal/ Conference publications

Other Interests:

Yoga Research and Applications (Occupational Stress Management- OSM)



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AICTE-ISTE Sponsored One Week INDUCTION/REFRESHER PROGRAMME – 2021-22

On “OPTIMIZATION in COMMUNICATION ENGINEERING”

DECEMBER 22-29, 2021

Organized by

Department of Electronics and Communication Engineering

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)
(Autonomous)



Objectives:



- Exposure to the basic concepts of mathematics to formulate an optimization problem.
- Acquire a multi-objective problem through weighted and constrained methods.
- Exploit elaborated the evolutionary algorithms and steps involved with special emphasis on their application in the field of communications.
- Apply the latest development in convex optimization to the design and analysis of communication systems.
- Inculcate and promote research interest in applying optimization techniques in solving problems of Engineering and Technology.

FEE: No registration fee is charged for the programme, since the program is fully sponsored by AICTE-ISTE, New Delhi.

ONLINE REGISTRATION: To join this Online FDP, you are requested to register by clicking the registration link:
<https://forms.gle/uZKEMs63LUGIM6q58j>

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CHIEF PATRONS

Sri. P. SUBBA-REDDY, Chairman
Smt. G. SRIVIDYA REDDY, Secretary
PATRON

Dr. K. RAMESH REDDY, Principal
PROGRAMME ADVISORS

Dr. P. V. D. SOMA SEKHAR RAO, Professor,
Dean Academics

Dr. P. SUDHAKAR RAO, Professor, Dean R&D
CONVENER

Dr. B. VENKATESHULU, Professor, HOD-ECE
COORDINATOR

Dr. C. PADMAJA, Assistant Professor, ECE
CHIEF GUESTS

Col. B Venkat Director (Faculty Development),
AICTE

Prof. Vijay D. Vaidya, Executive Secretary, ISTE

Important Dates:

Last Date of Registration: 19th Dec,
2021

Announcement of selected
candidates: 20th Dec, 2021

Schedule of the event: 22nd
Dec, 2021

ADDRESS FOR CORRESPONDENCE:

Dr. C. Padmaja, Assistant Professor, ECE Dept.,
GNITS, Hyderabad, Telangana State, India- 500104
Mobile: +91 9866649611, 9502407938
Email: padmaja.chennapragada@gmail.com

ABOUT THE INSTITUTE

G.Narayana Institute of Technology & Science, a leading Engineering college in Hyderabad for women, was founded by late Sri G.Pulla Reddy garu in 1997, with an objective of providing excellent learning facilities for women to pursue education in Engineering since two decades. The aim is to promote Technical Education among women to enhance and build-up a new generation of thinkers, innovators and planners in the realms of Science and Technology. GNITS received UGC autonomous status for 10 years from 2018 and is affiliated to Jawaharlal Nehru Technological University Hyderabad. It is approved by All India Council for Technical Education, accredited by NAAC & NBA (AICTE) and ISO 9001:2015 Certified Institution. "AICTE Internshala Award" by AICTE in August, 2018. "National Employability Award" 3 times in a row for being among top colleges in the State from AMCAT from 2017 to 2019.

ABOUT DEPARTMENT

The department of ECE was started in the year 1997 with an intake of 60 students. The intake was increased to 180 students. A Separate block is provided to develop the department as a centre of excellence. The department has established laboratories which are fully equipped with test & measuring equipment and trainers specially designed for lab work. The department has R & D Equipment such as 2x2 MIMO, Nexys 4 A7 FPGA boards, XILINX Vivado system edition 2018.1 version, NetS'ın, HFSS, LABVIEW, MATLAB, Mentor graphics HEP1 and 2, LIDAR, RFID Reader, ADS 1198 kit for ECG, EKG interface board, Smart Vision Camera, GSM/GPRS module, Node MCU, Ultra sonic & MQ3 Sensor, CHIPKIT Microcontroller etc of worth 12 Lakhs are available. The Alumnae are well-placed in reputed organizations like INFOSYS, Micron, Deloitte, NCR, Accenture FSE, Quantum Analytics, Ford, Optum, Colruyt, Virtusa, ADP, LVL7, Value labs and

ABOUT AICTE IS THE INDUCTION/ REFRESHER PROGRAMMES

All India Council for Technical Education (AICTE) was setup in November 1945 as a national level Apex Advisory Body to conduct survey on the facilities on technical education and to promote development in the country in a coordinated and integrated manner. The Indian Society for Technical Education (ISTE) is the leading National Professional Non-Profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System.

The major objective of the AICTE-ISTE Induction/Refresher Programme are:

- Providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.
- To assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.

OVERVIEW OF THE COURSE

The Induction/Refresher programme is to provide a platform for the participants to learn and share the knowledge through the lecture delivered by the eminent speakers and discussions with the practitioners. It is intended to describe the systematic approach of optimization, which includes problem definition, its mathematical formulation, selection of a suitable optimization method, and detailed analysis of the solution obtained. The participants will not only exposed to traditional theoretical developments and natured inspired techniques in the field of optimization but also learn about the practical applications of optimization techniques in diverse areas. Both theories and practices of optimization techniques will be covered during the course of the workshop.

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OBJECTIVES OF THE COURSE

1. Exposure to the basic concepts of mathematics formulate an optimization problem.
2. Inculcate and promote research interest in applying optimization techniques in solving problems Engineering and Technology.
3. Acquire a multi-objective problem through weighted and constrained methods.
4. Exploit elaborated the evolutionary algorithms a steps involved with special emphasis on the application in the field of communications.
5. Apply the latest development in convex optimization to the design and analysis communication systems
6. To promote quality teaching and research project in the field of Optimization.

TOPICS TO BE COVERED

- Introduction to properties of Vectors, Norm Positive Semi-Definite matrices, Sparse promoting optimization techniques
- Linear Programming, Constrained Unconstrained Optimization Techniques
- Fundamentals of Optimization: Optimization Clustering & Classification
- Convex optimization for communications
- Multi-objective Optimization
- Particle Swarm Optimization, Differential Evolution
- Genetic Algorithm and Bio inspired algorithms
- Social spider optimization, grey wolf optimizer
- Implementation of using Excel Solver and MATLAB Optimization Toolbox
- Design of Linear Phase FIR Low Pass Filter Using Mutation-Based Particle Swarm Optimization Technique
- Optimization to System Identification
- Application to Channel Equalization using Bit inspired Algorithm
- Numerical Optimization and Applications with Lab classes
- Application in the area of biomedical engineering

INVITATION



Six day AICTE –ISTE Sponsored Induction/
Refresher Programme

On

“OPTIMIZATION IN COMMUNICATION
ENGINEERING”

(22nd Dec to 29th Dec' 2021)



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AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES (Online)
ISTE/AICTE-ISTE FDP /2021-22



Title: OPTIMIZATION in COMMUNICATION ENGINEERING

Schedule Plan:

From: December 22nd to December 29th, 2021

Date	Session I (10AM-11.30AM)	11.30AM to 11.45AM	Session II (11.45AM-1.15PM)	1.15PM to 1.55PM	Session III (2PM-3.30PM)
22-12-2021 (Wednesday)	Inaugural function Chief Guests: Col. B Venkat Director Faculty Development Cell, AICTE Prof. Vijay D. Vaidya Executive Secretary, ISTE		Col. B Venkat Director Faculty Development, AICTE National education policy 2020		Dr. Chella Sastry, IITH Introduction to properties of Vectors, Norms, Positive Semi-Definite matrices, Sparsity promoting optimization techniques.
23-12-2021 (Thursday)	Dr. Rajib Kumar Bhattacharjya, IIT Guwahati Linear Programming, Constrained & Unconstrained Optimization Techniques		Dr. S. J. Nanda MNIT, Jaipur Fundamentals of Optimization		Dr. P. Ubsaidulla, IITH Convex Optimization for Communications
24-12-2021 (Friday)	Dr. Jagdish Chand Bansal, South Asian University, New Delhi Multi-objective Optimization		Amitav Panda, Solution Specialist, Nektia Network Particle Swarm Optimization, Differential Evolution		Prof. Rajesh Kumar, MNIT, Jaipur Genetic Algorithm and Bio inspired algorithms
27-12-2021 (Monday)	Dr. Urvasi P. Shukla, Banasthali Vidyapeeth Social spider optimization, Grey Wolf optimization		Dr. C. Padmaja, GNITS Implementation of using Excel Solver and MATLAB Optimization Toolbox		Dr. Balwinder S. Dhallwal, NITTR Chandigarh Design of Linear Phase FIR Low Pass Filter Using Mutation-Based Particle Swarm Optimization Technique
28-12-2021 (Tuesday)	Sitanshu Sekhar Sahu Birla Institute of Technology Mesra, Ranchi Optimization to System Identification		Dr. Ravi Kumar Jatoth NITW Application to Channel Equalization using Bio- inspired Algorithm		Dr. Satish Kumar, Associate Professor NIT Jamsbedpur Numerical Optimization and Applications with Lab classes
29-12-2021 (Wednesday)	Dr. Neeraj Sharma School of Biomedical Engineering IIT BHU Application in the area of biomedical engineering		Dr. N.S. Murthy, Vasavi College of Engg, Hyderabad Efficient Management of Research and Stress through Yoga		Online Quiz (2PM-3PM) Feedback Valediction (3PM-4PM)

R. Padmaja
Coordinator
Dr. C. Padmaja

B. Venkateshulu
HOD-ECE
Dr. B. Venkateshulu
PRINCIPAL
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K. Ramesh Reddy
PRICIPAL
Dr. K. Ramesh Reddy

Inauguration of AICTE- ISTE
Induction/ Refresher Programme

Programme Agenda

- ✓ Lightening the Lamp
- ✓ Invocation Song
- ✓ Address by Coordinator of the Refresher Programme
- ✓ Address by Dept HoD
- ✓ Address by Principal
- ✓ Introduction to Guest of Honour
- ✓ Address by Guest of Honour

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Shaikpet, Hyderabad



Department of Electronics and Communication
Engineering
G.Narayanamma Institute of Technology and
Science(for Women)

Cordially invites you to the Inaugural function of

Six day AICTE -ISTE Sponsored Induction/ Refresher
Programme

on
"OPTIMIZATION IN COMMUNICATION
ENGINEERING"

: (22nd Dec to 29th Dec '2021)

Guest of Honour

Col. B. VENKAT
Director, FDC, AICTE

&

Prof VIJAY D. VADIYA
Executive Secretary, ISTE

On

22nd Dec 2021, 10:00AM

Venue: e Classroom, 4th Floor, ECE Block

FDP Coordinator
Dr. C.Padmaja

Convenor

Dr.B.Venkateshulu

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List of Participants

S.No	Full Name	22-Dec	23-Dec	24-Dec	27-Dec	28-Dec	29-Dec	Eligible	
1	ANAND K	P	P	P	P	P	P	Yes	1
2	ANNEPAKA RAVEENDRA BABU	P	P	P	P	P	P	Yes	2
3	Archana K Bhange	P	P	P	P	P	P	Yes	3
4	Aruna V	P	P	P	P	P	P	Yes	4
5	Aswatha	A	A	A	A	A	A	No	
6	B.Poonguzharselv	P	P	P	P	P	P	Yes	5
7	BANDAM NARENDAR	P	P	P	P	P	A	Yes	6
8	C. Silpa	P	P	P	P	P	P	Yes	7
9	Ch Naveen kumar	A	A	A	A	A	A	No	
10	Chandra Kumar R.	P	P	P	P	P	A	Yes	8
11	Chikyal Neelu	P	P	P	P	A	A	Yes	9
12	Chilgun Anusha	P	P	P	P	P	P	Yes	10
13	Das Monica saiyavathi	P	P	P	P	P	P	Yes	11
14	Dr Gurinder Kaur Sodhi	P	P	P	P	P	P	Yes	12
15	Dr Sakhamuni Sujayarajana	P	P	P	P	P	P	Yes	13
16	Dr Venru Saini	P	P	P	P	P	P	Yes	14
17	Dr. Ajay Khurleta	A	A	A	A	A	A	No	
18	Dr. Balaji L.	P	P	P	P	P	P	Yes	15
19	Dr. C. Padmaja	P	P	P	P	P	P	Yes	16
20	Dr. M. Premkumar	A	A	A	A	A	A	No	
21	DR. NARMADA ALAPARTHI	P	P	P	P	P	P	Yes	17
22	Dr. P. Kavipriya	P	P	P	P	P	P	Yes	18
23	Dr.A.Ravi Kumar	A	A	A	A	A	A	No	
24	Dr.G.Anjaneyulu	P	P	P	P	P	P	Yes	19
25	Dr.Kakarla Deepthi	P	P	P	P	P	P	Yes	20
26	Dr.R.Swathi	P	P	P	P	A	A	Yes	21
27	EVSS Vshnavi	P	P	P	P	P	P	Yes	22
28	GVNSK Seviya	P	P	P	P	P	P	Yes	23
29	Jaganmohan Panigrahi	P	P	P	P	P	A	Yes	24
30	Janakibabhi Sharma	A	A	A	A	A	A	No	
31	K.C.Raghavendra	A	A	A	A	A	A	No	
32	Kurra Pallavi	P	P	P	P	P	P	Yes	25
33	M R RAMESH	P	P	P	P	P	P	Yes	26
34	M Shiva Kumar	A	P	P	P	P	P	Yes	27
35	M Bhavana	P	P	P	P	P	P	Yes	28
36	Mahendar Gajula	P	P	P	P	P	P	Yes	29
37	MANNE GALEEB	A	P	P	P	P	P	Yes	30
38	MOUNIKA NEELAM	P	P	P	P	P	P	Yes	31
39	Mr.DHURAM ARUN KUMAR	P	P	P	P	P	P	Yes	32
40	Ms. G KOKILA	A	A	A	A	A	A	No	
41	Ms. K. Geethanjali	P	P	P	P	P	P	Yes	33
42	N. Haranvi	P	P	P	P	P	P	Yes	34
43	Narsaiah Domala	P	P	P	P	P	P	Yes	35
44	nerella hanni	P	P	P	P	P	P	Yes	36
45	Nishanth R	P	P	P	P	P	P	Yes	37
46	P Roopa Ranjani	P	P	P	P	P	P	Yes	38
47	PINSETTI SHANTI SREE	P	P	P	P	P	P	Yes	39
48	PROF. B. ARUL RAJAN	P	P	P	P	P	A	Yes	40
49	Pushpara	P	A	A	A	A	A	No	
50	RAJAMAHANTI SURYA KIRAN	P	P	P	P	P	A	Yes	41
51	Ramachandran G	A	A	A	A	A	A	No	
52	Remya Gopalakrishnan	P	P	P	P	P	P	Yes	42
53	S Sreehari	A	A	A	A	A	A	No	
54	Saima Shaikh	P	P	P	P	P	P	Yes	43
55	Sanjeev Gupta	P	P	P	P	P	P	Yes	44
56	Santhosh Kumar M	A	A	A	A	A	A	No	
57	SARITHA GANESAN	P	P	A	P	P	A	Yes	45
58	SHAIK JAKEER HUSSAIN	A	A	A	A	A	A	No	
59	SHAIK MAHAMMAD RASOOL	P	P	P	P	P	A	Yes	46
60	Shyam Sunder Rao Sivolu	P	P	P	P	P	P	Yes	47

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S.No	Full Name	22-Dec	23-Dec	24-Dec	27-Dec	28-Dec	29-Dec	Eligible	
61	Srekanth Reddy Bodeppala	P	P	P	P	P	P	Yes	48
62	Sridhar Babu C	P	P	P	P	P	P	Yes	49
63	Sujatha Allapuram	P	P	P	P	P	P	Yes	50
64	Swathi KARUMURTI	P	P	P	P	P	P	Yes	51
65	V MAHESH	P	P	P	P	P	P	Yes	52
66	Yakkala Lavanya	P	P	P	P	P	A	Yes	53
67	Yograjn G	P	P	P	P	P	P	Yes	54

Handwritten signature

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Certificate



This is to certify that **DR. C. PADMAJA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on "*Optimization in Communication Engineering*" held during **22.12.2021** to **29.12.2021** organized by **G. Narayanamma Institute of Technology and Science (For Women), Shaikpet, Hyderabad, Telangana.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
GNITS, Hyderabad

Principal
GNITS, Hyderabad

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AICTE-ISTE Sponsored One Week Refresher Programme on "OPTIMIZATION in COMMUNICATION ENGINEERING" from December 22nd - 29th, 2021

Consolidated Feedback

DAY 1

Session-1 by Dr. C. Padmaja, Assistant Professor of GNITS on " Installation Procedure for solving Optimization Problems".

67.9% Excellent

30.2% Very Good

1.9% Good

Session-2 by Col. B Venkat, Director Faculty Development, AICTE on "National education policy 2020".

69.8% Excellent

30.2% Very Good

Session-3 by Dr. Chella Sastry, IITH on "Introduction to properties of Vectors, Norms, Positive Semi-Definite matrices, Sparsity promoting optimization techniques".

73.6% Excellent

26.4% Very Good

DAY 2

Session-1 by Dr. Rajib Kumar Bhattacharjya, IIT Guwahati on "Linear Programming, Constrained & Unconstrained Optimization Techniques".

81.6% Excellent

18.4% Very Good

Session-2 by Dr. S. J. Nanda MNIT, Jaipur on "Fundamentals of Optimization".

85.7% Excellent

14.3% Very Good

Session-3 by Dr. P. Ubaidulla, IITH on "Convex Optimization for Communications".

79.6% Excellent

20.4% Very Good

DAY 3

Session-1 by Dr. Jagdish Chand Bansal, South Asian University, New Delhi on "Multi-objective Optimization"

84.8% Excellent



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15.2% Very Good

Session-2 by Amitav Panda, Solution Specialist, NokiaNetwork on "Particle Swarm Optimization, Differential Evolution".

84.8% Excellent

15.2% Very Good

Session-3 by Prof. Rajesh Kumar, MNIT, Jaipur on "Genetic Algorithm and Bio Inspired Algorithms".

80.4% Excellent

19.6% Very Good

DAY 4

Session-1 by Dr. Urvashi P. Shukla, Banasthali Vidyapith on "Social spider optimization and Grey Wolf optimization" .

77.1% Excellent

22.9% Very Good

Session-2 by Dr. C. Padmaja, GNITS on "Implementation of using Excel Solver and MATLAB Optimization Toolbox".

83.3% Excellent

16.7% Very Good

Session-3 by Dr. Balwinder S. Dhaliwal, NITTTR Chandigarh on "Design of Linear Phase FIR Low Pass Filter Using Mutation-Based Particle Swarm Optimization Technique".

83.3% Excellent

16.7% Very Good

Day 5

Session-1 by Sitanshu Sekhar Sahu Birla Institute of Technology Mesra, Ranchi on "Optimization to System Identification".

78.4% Excellent

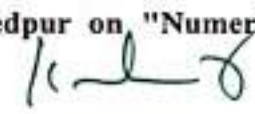
21.6% Very Good

Session-2 by Dr. Ravi Kumar Jatoth NITW on "Application to Channel Equalization using Bio-inspired Algorithm".

73% Excellent

27% Very Good

Session-3 by Dr. Satish Kumar, Associate Professor NIT Jamshedpur on "Numerical Optimization and Applications with Lab classes".


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73% Excellent

27% Very Good

Day 6

Session-1 by Dr. Neeraj Sharma School of Biomedical Engineering IIT BHU on "Application in the Area of Biomedical Engineering".

Excellent

Very Good

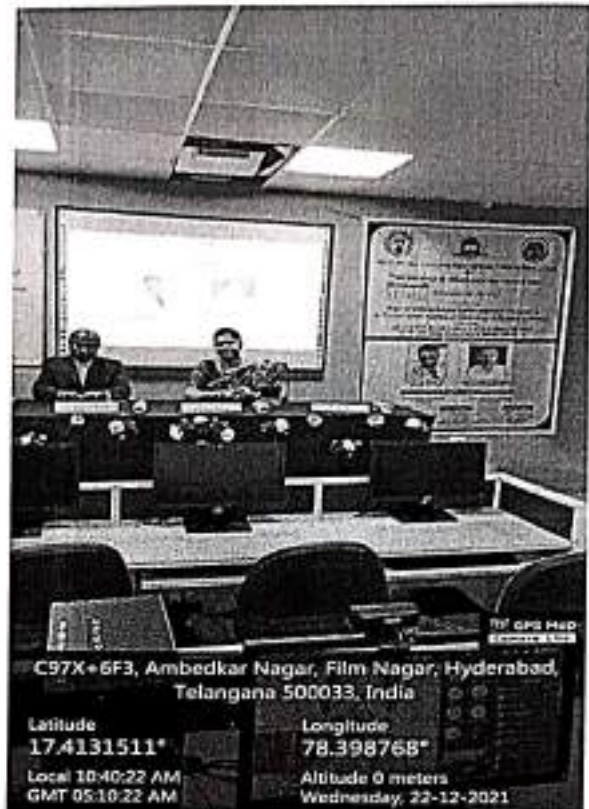
Session-2 by Dr. N.S. Murthy, Vasavi College of Engg, Hyderabad on "Efficient Management of Research and Stress through Yoga".

Excellent

Very Good



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Inaugural function on Optimization in Communication Engineering on 22/12/2021



Valedictory of online AICITE-ISTE FDP on 29/12/2021

Session by Dr. Jagadish Chandra Bansal on 24/12/2021

J. Bansal
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(AUTONOMOUS)
Shaikpet, Hyderabad - 500104

UTILIZATION CERTIFICATE

Name of the Scheme under which Grant was sanctioned: AICTE-ISTE Refresher Programme 2021-22-Release of Grant

NAME & ADDRESS OF THE INSTITUTE : G. Narayanamma Institute of Technology & Sciences
 For Women, Shaikpet, Hyderabad

File No. : ISTE/AICTE-Refresher Programme/2021-22/96

Name of Coordinator : Dr. C. Padmaja, Assistant Professor, ECE Dept., GNITS

Dates of the Programme : December 22 - 29th 2021

Title of the Programme : Optimization in Communication Engineering

Sl. No.	ISTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (P.)	
	UTR No. 21322353229 1 st Instalment: 18/11/2021 Amount Rs: 81,000 (Rupees Eighty-one Thousand Only)	93,000/-	Certified that out of the grant-in-aid of Rs. 93,000 (Ninety-Three Thousand only) sanctioned by the AICTE-ISTE during the Financial Year 2021-22 in favour of G. Narayanamma Institute of Technology & Sciences (For Women), as per the letter mentioned in the margin, Rs. Nil on account of unspent balance of previous year. Along with Rs. 5,000 (Five Thousand Only) transferred by the College a sum of Rs. 98,000 has been utilized for the purpose for which it was sanctioned and the balance of Rs. Nil remained unutilized at the end of the year. A Sum of Rs. 12,000 (Rupees Twelve Thousand Only) are yet to be released by the AICTE-ISTE.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

- i) Statement of Income and Expenditure
- ii) Receipt and Payment account, bank statement etc.
- iii) Bills/Vouchers/receipts etc.

[Signature]
 Name, Signature & Address of the
 Coordinator with seal
 Dr. C. Padmaja, Assistant Professor,
 ECE Dept. GNITS, Hyderabad

Signature of Finance/Accounts Officer

[Signature]
 P. Venkatarani Reddy
 Finance Officer, GNITS, Hyderabad

Accounts Officer

G. Narayanamma Institute of
 Technology & Science (for women)
 (AUTONOMOUS)
 Shaikpet, Hyderabad - 500 104.

Signature of Chartered Accountant

[Signature] 17/11/2021
 Name of Chartered Accountant: CA. SRIDHAR BHADRAMRAJU
 Membership No: 226232
 Full Address: # 202, Mani Sai Kalyan Arcade, Miyapur X Road,
 Hyderabad - 500 049.
 Date: 17th January, 2022.

Signature of Head of the Institute

[Signature]
 Dr. K. Ramesh Reddy, PRINCIPAL
 Principal, GNITS G. Narayanamma Institute of
 Shaikpet, Hyderabad Technology & Science (for women)
 (AUTONOMOUS)
 Date: Shaikpet, Hyderabad - 500 104



[Signature]
 PRINCIPAL
 G. Narayanamma Institute of
 Technology & Science (for women)
 (AUTONOMOUS)
 Shaikpet, Hyderabad - 500 104

STATEMENT OF EXPENDITURE

File No. : ISTE/AICTE-Refresher Programme/2021-22/96
 Title of the Programme : Optimization in Communication Engineering
 Name of the Coordinator : Dr. C. Padmaja, Assistant Professor, ECE Dept., GNITS

Sanction No. and date	Grant Sanctioned	Details of Expenditure Incurred Item-wise	Amount (Rs.)	No. of Participants	Duration of the Programme (With dates)
UTR No. 21322353229 1 st Installment 18/11/2021 Amount Rs 81,000 (Rupees Eighty-One Thousand Only)	Rs. 93,000	1. Honorarium to Course Coordinator 2. Honorarium to Resource Persons/ Experts 3. Honorarium to Lab Attendant 4. Miscellaneous charges (reprographic services, services, postage, transport daily wages, tea/coffee, stationary etc.)	Rs. 5,000 Rs. 75,000 Rs. 3,150 Rs. 14,850	54	22 nd Dec, 2021 23 rd Dec, 2021 24 th Dec, 2021 27 th Dec, 2021 28 th Dec, 2021 29 th Dec, 2021 90 Mins Each Session
		Total (A)	Rs. 98,000		
		1) Grant Received from ISTE	Rs. 81,000		
		2) Bank Interest received	Nil		
		3) Fund generated from other Source (Transferred by College)	Rs. 5,000		
		Total (B)	Rs. 86,000		
		Balance Receivable/ (Payable) (A) - (B)	Rs. 12,000		

Signature of Finance/Accounts Officer: P. Venkata Ram Reddy
 Finance Officer, GNITS, Hyderabad

Accounts Officer: G. Narayanamma Institute of Technology & Science (for women) (AUTONOMOUS) Shaikpet, Hyderabad - 500 104

Name, Signature & Address of the Coordinator
 Dr. C. Padmaja, Assistant Professor
 ECE Dept., GNITS, Hyderabad

Signature of Chartered Accountant: CA SRIDHAR BHADRAMPURU
 Membership No: 226232
 Full address: # 202, Mani Sai Kalyan Arcade, Miyapur X Road, Hyderabad - 500 049.
 Date: 17th January, 2022.

Signature of Head of the Institute: Dr. K. Ramesh Reddy
 Principal, GNITS
 G. Narayanamma Institute of Technology & Science (for women) (AUTONOMOUS) Shaikpet, Hyderabad - 500 104



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DEPARTMENT OF ECE
2020-2021

REPORT AICTE- ISTE INDUCTION/REFRESHER PROGRAMME (Online) on "Optimization in Communication Engineering"

Date of Program: 22-12-2021 to 29-12-2021

Sponsored by: AICTE-ISTE INDUCTION/REFRESHER PROGRAMME

Number of Participants: 54

About Resource Person: The program is designed in such a way that the participants will not only be exposed to theoretical developments in the field of optimization but also learn about the practical applications in diverse areas by eminent resource persons from IIT's, NIT's, IIITH, SAU, MNIT's, NITTTRC, Nokia Network to deliver lectures. The resource persons are a blend of both industry and academia who would be engaging in a total of 16 sessions.

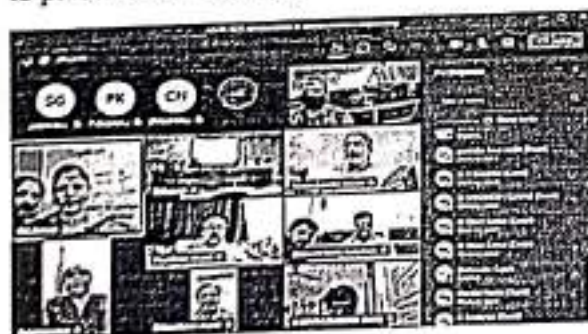
About the Program:

Received an overwhelming response of the participants with 63 registrations which includes research Scholars and academicians from various states for this 1 week online Refresher Program. Out of which, 25 from Telangana, 18 from Andhra Pradesh, 10 from Tamilnadu, 2 from Punjab, 2 from Rajasthan, 2 from Karnataka, 2 from Kerala 1 from Haryana, 1 from J & K.

The objective kept in mind while framing of this FDP was to highlight the importance of Optimization with special emphasis on their applications in the field of communication and to help the participants to learn right tools and techniques in framing the optimization problem. The 6-day FDP was concluded with an assessment exam, feedback session and valedictory function.


Talk Link: <https://bit.ly/3pXHuv8>

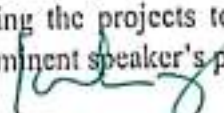
Outcomes: The basic knowledge gained by this FDP will definitely help faculty from various institutes to pursue their research.

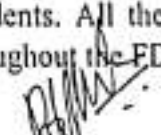


Number of participants/ faculty benefited: 54 participants

Overall Feedback: The feedback of the participants was very positive and motivational for the organizers. The participants felt very happy for conducting the FDP on latest trends in "Optimization in Communication Engineering". They have learned a lot on Modern Optimization Algorithms and Applications in both theoretical and practical manner. They said that, this program was very useful and helpful for them in their research work and guiding the projects to the students. All the participants appreciated the Coordinator for arranging such an eminent speaker's panel throughout the FDP.


Coordinator
Dr. C. Padmaja


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Dept HOD
Dr. B. Venkateshulu