

Objective & Scope

To enable theoretical and practical understanding of the most popular 5G circuit designing problems.

Target Audience

Interested students/Faculty/ Research Scholars of Engineering/ Technical Institutions are eligible to attend this certification program.

Course Contents:

1. Introduction and Tools Overview
2. 5G MIMO Architecture and System Simulation
3. RF ASIC Concepts
4. Power Amplifier Design
5. Power Amplifier Simulations
6. LNA Design: LNA Basics, Design Topologies, Trade-Off Space for LNA
7. LNA Simulations: Design and Simulations of a couple of LNA topologies using a Scikit-RF
8. RF Channel Architecture and Simulations: Different Channel Architectures

Key Features:

- Online / live lectures sessions by subject experts.
- Comprehensive tutorials and practice notes.
- Online lab and training sessions.
- Follow up sessions and discussion forums on research problems and internships.

Course Fee Details:

Academic (student/faculty) : 500 INR
Industry People : 1000 INR
Others : 1000 INR

Online payment details:
Bank Name: Allahabad Bank
Account Name: NIT Patna
Account No.: 50380476798
IFSC Code: IDIB000B810

Registration Link:

<https://forms.gle/UGpknj5bZxpn4UEc7>

(Select Proctor Coordinator as: Ms. Sangeeta Singh, Dept. of ECE, Vardhaman College of Engineering, Hyderabad, Telangana.)

Coordinators:

- **Dr. Sangeeta Singh**, NIT Patna
Sangeeta.singh@nitp.ac.in
- **Mr. Pankaj Kumar**, NIT Patna
pankajjha@nitp.ac.in

Local Coordinator:

Mrs. Sangeeta Singh,
Asst. Professor, Dept. of ECE,
Vardhaman College of Engineering, Hyderabad,
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Phone: +91-9505889283

Joint Online Two Weeks Certificate Program

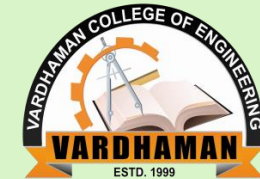
On

5G Design: Journey from Devices to Circuits

March 1-12, 2021

As a Remote Centre to

**Electronics & ICT Academy,
NITPatna**



Department of Electronics and Communication Engineering
VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)

Shamshabad-501 218, Hyderabad
www.vardhaman.org



Supported by
Ministry of Electronics and Information
Technology, (MeitY)
Govt. of India.

About the College:

Vardhaman College of Engineering was established in 1999 with an endeavor to impart high quality Technical Education and innovative research in the fields of Engineering technologies, with emphasis on industry-oriented programs for development of students as well as faculty. Vardhaman College of Engineering is affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, and is approved by the All India Council for Technical Education (AICTE), New Delhi.

The prime objective of Vardhaman College of Engineering is to update and modernize the quality of professional education. Its aim is to employ innovative teaching methods which carry an emphasis on fast changing technological trends. This is to integrate classroom learning with actual work experience in the industry concerned or in a related professional field. In the course of continued march towards excellence the college was credited with the status of an Autonomous College by UGC and accredited by **NAAC with 'A' Grade**.

About the Department:

The department of Electronics and Communication Engineering was established in 1999 and is accredited by **NBA-Tier-I**, AICTE. The department has competitive faculty members from prestigious institutions in specializations like VLSI, Embedded Systems, Signal Processing, RF and Microwave Communications, Virtual Instrumentation. The department runs one UG program and one PG program with intake of 240 and 18 respectively. The department has well equipped laboratories to meet the demands of present-day national Scenario.

The department organizes National level conferences/ workshops/ seminars frequently for the benefit of faculty and students of various engineering college for meeting the industry standards.

Organizing Committee:

CHIEF PATRONS

Dr. T. Vijender Reddy

Sri. T. Upender Reddy

Sri. M. Rajasekhar Reddy

Sri. E. Prabhakar Reddy

Chairman

Secretary

Vice-Chairman

Treasurer

PATRON

Dr. J.V.R. Ravindra

Principal, VCE

CONVENER

Dr. G.A.E. Satish Kumar

HEAD, ECE

LOCAL COORDINATOR

Ms. Sangeeta Singh

Assistant Professor, ECE

Resource Persons:

- Shri Surinder Singh (Director, SCL Chandigarh)
- Shri H. S Jatana (Senior Head, SCL, Chandigarh)
- Prof. Anand Bulusu (IIT Roorkee)
- Dr. Salil Kashyap
- Dr. Ribhu
- Dr. Sudarshan Mukherjee
- Dr. Gaurav Trivedi, IITG
- Dr. Aditya Dalakoti
- Mr. Ashish Jindal (DRDO)
- Puneet Mittal

Road Map to Vardhaman:

<https://goo.gl/maps/em6woKN9jKJ2>

