

ENGR. NIDA NASIR

(B.E., NED Pakistan, M.Engg., NED Pakistan, Phd in progress, UTM Malaysia) ,
ASSISTANT PROFESSOR, NED UNIVERSITY OF ENGINEERING & TECHNOLOGY,
Karachi, Pakistan.

Email id: engr_nidanasil@hotmail.com nida@cloud.neduet.edu.pk

Residential Address: D-13, Block-2, P.E.C.H.S., Karachi, Pakistan-75400

CNIC Number: 42201-0654764-4

D.O.B: 23 Feb 1980

Contact numbers: +92300-2303059

PEC Number: ELECTRO/ 6631

Nationality: Pakistan

Passport Number: AT9827643

Status: Married

PERSONAL SUMMARY

I AM A DEDICATED PROFESSIONAL WITH OVER 15 YEARS OF TEACHING EXPERIENCE IN N.E.D. UNIVERSITY OF ENGINEERING & TECHNOLOGY. I AM INTERESTED IN ACQUIRING POST GRADUATE STUDIES TO IMPROVE IN FIELD OF ENGINEERING. I BELIEVE AFTER SUCCESSFUL ACCOMPLISHING PHD I WILL BE IN BETTER POSITION TO SERVE PROSPECTIVE STUDENTS, UNIVERSITY AND COUNTRY.

RESEARCH INTERESTS

Wireless communication and networks including Internet of things, RF, microwave and millimeter waves with specialization in dielectric resonator antenna and substrate integrated wave guide.

RESEARCH PAPER

Wide Band, High Gain Substrate Integrated Wave guide Dielectric Resonator Antenna for 5G Applications
2024 IEEE International Symposium on Antennas and Propagation and ITNC-USNC-URSI Radio Science Meeting ©2024 IEEE
Comparison of Rectangular Dielectric Resonator Antenna Modes using Microstrip Line Feeding at 26GHz
2022 IEEE International RF and Microwave Conference (RFM) | 978-1-6654-8977-5/22/\$31.00 ©2022 IEEE
An Analytical Approach for Optimizing Backhaul Capacity in Mobile Networks Using MPLS”
2010 International Conference on Modeling, Simulation and Control, (ICMSC 2010, November 2-4, Cairo, Egypt)

EDUCATION AND PROFESSIONAL QUALIFICATION

POST GRADUATION (2021 - To Date) : U.T.M., Malaysia - PhD in Antennas

POST GRADUATION (2003 - 2006) : N.E.D. UNIVERSITY OF ENGINEERING & TECHNOLOGY, Karachi, Pakistan

M.Engg. – Masters in Engineering “ Telecommunication” by Course work with ‘3.6 CGPA’ - First division

UNDER GRADUATION (1998 – 2002) : N.E.D. UNIVERSITY OF ENGINEERING & TECHNOLOGY, Karachi, Pakistan

B.E. – Bachelors in Engineering “ Electronics” in 1998-2002 with ‘74 % - First’ division

HIGHER EDUCATION(1996 – 1998) : P.E.C.H.S. GOVT GIRLS COLLEGE, Karachi, Pakistan

H.S.C .- Pre-Engineering student with ‘A-1’ grade (80% Marks with N.C.C.)

SECONDARY EDUCATION (1994 – 1996) : GULISTAN S.A.L. GIRLS SECONDARY SCHOOL, Karachi, Pakistan

S.S.C. - Pre-Engineering student with ‘A-1’ grade (82% Marks)

PROFESSIONAL EXPERIENCE

N.E.D. UNIVERSITY OF ENGINEERING & TECHNOLOGY, Karachi, Pakistan

POST: Assistant Professor in Electronic Engineering Department 2009-PRESENT

Lecturer in Electronic Engineering Department 2007-2009

Lecturer in Electrical Engineering Department 2005-2007

JOB RESPONSIBILITIES

- Prepare and deliver lectures to students and conduct laboratory session.
- Prepare, administer and grade examination in form of written test, viva, assignment, projects, reports, and presentations.
- Provide student counselling related to their courses, academic matters and career decisions.
- Supervise undergraduate students in their final year projects.
- Assist authorities in preparing courses and syllabi, in conduct of examinations, in organizing the libraries, laboratories, other curricular and extracurricular activities of the University & its departments.

UNDER GRADUATE COURSES TAUGHT

- Fundamentals of Telecommunication engineering (FE-TC)
- Communication system (TE-TC, TE- EE, BE-EL)
- Communication Electronics (TE-TC)
- Satellite communication (BE-TC)
- Wireless mobile and cellular communication (TE-TC)
- Signal & System (SE-TC)
- Digital signal processing (TE-TC)
- Basic electronics (FE-TC, SE-IM, SE-ME, SE-PP)
- Amplifier and oscillators (SE-TC)
- Electronic devices & Circuits (SE-EE, TE-CIS)
- Basic Electrical engineering(SE-BO, SE-MD)
- Circuit theory (SE-EE, TE-EL, TE-CIS)
- Occupational safety & health (TE-TC)

UNDER GRADUATE PROJECTS SUPERVISED (As Internal/External Project Advisor)

- GPS assisted Sound localization for visually impaired
- Wireless patient health monitoring and smart ambulance with traffic control.
- Currency recognition scanner for visually impaired
- Motion based health monitoring system with message conveyer
- GPS based blind stick with RF remote
- Smart glove for deaf, dumb, blind
- Prototype for detection of metal
- Control and management of water reservoirs in Sindh via GSM
- Design and implementation of wireless sensors and actuator network for energy measurement and control at home and industries
- Efficient and reliable USB to USB data transfer without PC
- Automatic ground station antenna pointing system for GEO satellites
- Satellite's telemetry and telecommand simulator.
- Zigbee based wireless network for advance metering infrastructure with GPRS and GSM
- IOT based smart greenhouse
- Implementation of Energy Harvesting Method to Design a Solar based Efficient UGV
- Bluetooth Controlled Spy Robot with Metal Detector
- Implementation & Design of Highly Secured Locker
- Automatic Parking System Using GSM With Arduino
- Smart gloves; Gesture Recognition based sign language interpreter
- Arduino based Smart First-Aid Vending machine with GSM module
- Hazard proof smart automated kitchen with safety measures.

- WI-FI Based industrial automation system using Node MCU
- IoT based Smart Monitoring and Control System for
- Design and implementation of home mechanization framework over IOT
- Arduino based accident alert system using GPS, GSM and accelerometer.
- Smart blind cane with Home Route Planning and Switching
- IoT based pick and place robotic arm
- Hand Gesture based Wireless home Automation System using Accelerometer-Glove for Disable People
- Gesture Based Human Interaction System
- Smart Vehicle Security System
- GSM Based Energy Meter Billing Via SMS
- Health Care Monitoring and Alerting System Using ZigBee

ADMINISTRATIVE DUTIES (DEPARTMENTAL & UNIVERSITY) 2005- TILL DATE

- **Class Advisor:** Duties include class Timetable, coordination with teacher and students, student attendance system, short of attendance cases, examination schedule, and factotum
- **Final year project advisor:** Guide and supervise final year projects according to demand and use contemporarily.
- **In charge Advance Telecom Lab:** Monitor and maintain the equipment in laboratory, to supervise the weekly attendance record of successful conduct of practical, to keep DSR (dead stock register) and CSR (Consumable Stock Register) up to date.
- **Lab coordinator:** To prepare Lab time table according to ISO format for all Telecom laboratories in coordination with Lab in charges and other departments. To supervise the management of weekly attendance record, performance of Labs, maintain Lab File which includes Lab attendance, Lab timetable, equipment list etc. To check DSR (dead stock register) and CSR (consumable stock register) for internal and external audits. Indent and purchasing of new equipment and accessories.
- **ISO Coordinator:** course allocation under the supervision of Head of department. To prepare and maintain the documents according to ISO format like curriculum revision, weekly attendance, course completion, sessional assessment, conduction of seminar on duties of class advisor, duties of Invigilator, effective methods of teaching etc.
- **Member of Departmental reaccreditation committee:** Successfully organized reaccreditation of Telecommunication engineering conducted by Pakistan Engineering Council in 2009, 2011, 2014, and 2016,2019
- **Manual revision committee & team member:** Revision of practical workbooks on quarterly and yearly basis according to the need and changes in curriculum as well as use of state of art equipment's available in labs.
- **Curriculum revision and Curriculum development committee & team member:** Upgrade the contents of various courses to keep the curricula at par with the current international standards and technology, also under the guidelines of HEC (Higher Education Commission) and PEC (Pakistan Engineering Council).

PERSONALITY SKILLS

- Planning, Time management and prioritizing skills.
 - Communication and presentation skills.
 - Analytical and critical skills.
 - Teamwork with colleagues.
 - Leadership, motivation, and dedication.
 - Keen to learn and share new ideas.
-