

MANDEEP MALIK

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Permanent Address : Hno-168, Sector 21-C, Faridabad, 121001

Current Address : Faculty of Communication Engineering, MCTE, Mhow

EXPERIANCE

Instructor Class - A

Jul 19 - Present

Military College of Telecommunication Engineering, Indore

Mhow, Indore

- Spearheaded 5Gi and 5G projects with IIT-Madras and Nokia Ltd for over 50 Cr to establish 5G Test Bed at MCTE.
- Trained on 5Gi network with DoT officials at IIT- Madras for three months.
- Completed Nokia Bell Labs BL-100 5G associate certification.
- Teaching Faculty for M Tech and Graduate Engineers Course.
- Academic subjects taken are Wireless Networks, MPLS, IoT and satellite Communication.

Instructor Class - B

Oct 16 - Jun 17

Military College of Telecommunication Engineering, Indore

Mhow, Indore

- Teaching Faculty for Graduate Engineers Equipment orientation Course and project officer.
- Academic subjects taken were Optical Fiber Communication and Analog Communication.

Officer Commanding Communications

Mar 14 - Oct 16

Static and Field Communication

New Delhi

- Responsible for voice communication to 800 local subscribers at Shankar Vihar, Delhi through EPABX (Alcatel) and (NEC).

Officer Commanding Operations

Oct 10- Jun 13

Rashtriya Rifles

Rajuri, JK

- Deputation with RR in counter Insurgency and Counter Terrorist role on Line of control in JK.

Officer Commanding Communications

Jun 07 - Oct 10

Static and Field Communication

Jammu, JK

- Responsible for voice communication to 1000 local subscribers at Jammu through EPABX (Alcatel).
- Trunk communication to all Army static/ Field installations using 08 x E1/ PRI on Nortel Passport.

Network Analyst

Jun 05 - Jun 06

HCL Technologies

Noida, UP

- Router programming on different protocols like ISIS, OSPF, BGP, IGP.

EDUCATION

Indian Institute of Information Technology Nagpur

Jul 21 - Jul 24

PhD in Wireless Communication (LPWAN)

Nagpur, MH

- Thesis : Optimization of LoRa Communication Parameters for Urban Environment PER Reduction .
- Subjects : Machine Learning and Digital Signal Processing.
- CGPA : 7.43

Indian Institute of Technology Roorkee

Jul 17 - Jul 19

MTech in Communication Systems

Roorkee, UK

- Dissertation Stage I : Sensitive and Nonlinear Far Field RF Energy Harvesting.
- Dissertation Stage II : Nonlinear and Efficient RF Energy Harvesting for Backscatter Sensor Network with Extended Communication Range.
- CGPA : 7.43

Military College of Telecommunication Engineering, Indore
IT and Communication Course

Jul 13 - Feb 14
Mhow, Indore

- One year course for officers of Corps of Signals in Equipment handling, Computer/Data Networks, Optical Networks, Cisco Router, L2/L3 switch MPLS, STM1, STM3, Cryptography, PKI and Project Management.
- Grade : 'A'

Military College of Telecommunication Engineering, Indore
Young Officers Course (Signals)

Jun 08 - Dec 08
Mhow, Indore

- Six months course for officers from Corps of Signals in basic equipment handling, Radio Relay, UHF Radio, PCM Mux, PDH, SDH, SONET, TDM EPABX, Computer network.
- Grade : 'A'

Indian Military Academy, Dehradun

Jun 06 - Jun 07

Post Graduate Diploma in Military Science and warfare from HNB University Pauri Dehradun, UK

- One year course for Gentlemen Cadets in basic Military training, weapon handling, Endurance, Military Tactics and Military History.

Rustamji Institute of Technology, B.S.F. Academy, Gwalior
B.E (Hons) in Electronics Communication

Jun 01 - Jun 05
Gwalior, MP

- Percentage : 75.9

PUBLICATIONS

5G For Military Communication: Automation of Kill Cycle

Tashkent

2021 International Conference on Technological Advancements and Innovations (ICTAI), 2021, pp. 285-290

Author: Mandeep Malik, MCTE

Network Slicing In 5G: Possible Military Exclusive Slice

Nagpur

2022 1st International Conference on the Paradigm Shifts in Communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS), 2022, pp. 48-52

Author: Mandeep Malik; Ashwin Kothari; Rashmi A. Pandhare

Simplified SEP Approximation Of HQAM In Combined Time Shared Nakagami-Lognormal And Rician Fading Channel

London

4th International Conference on "Intelligent Engineering and Management"

Author: Shivam Kumar Garg; Mandeep Malik

Towards 6G: Network Evolution beyond 5G & Indian Scenario

Noida

2022 2nd International Conference on Innovative Practices in Technology and Management (ICIPTM), 2022, pp. 123-127

Author: Mandeep Malik; Shivam Kumar Garg

SKILLS

The Arduino Platform and C Programming

Coursera

University of California

Certification Id : JUEK8HXBG6WT

Industrial IoT on Google Cloud Platform

Coursera

Google Cloud

Certification Id : 9NJZXYSRMFFUB

TECHNICAL STRENGTHS

Optical Networks	OFC, MER/MAR, OTDR, ROW Calculations
Computer Networks	DNS, DHCP, IIS, APACHE, SAMBA, L2/L3 Switches, Access/MPLS routers
Telecom Networks	Alcatel/ Siemens EPABX, PCM MUX, CSU/DSU, E1, PRI
Radio	Microwave radios, RRF, VHF/UHF/HF, Broad Band Radios
Latest Tech	IoT, LPWAN, Energy harvesting, Scatter Networks

COMPUTER SKILLS

Computer Language	C/C++, MATLAB, PHP
Databases	MySQL
Tools	LaTeX, Simulink

PERSONAL DETAILS

Language Known	English and Hindi
Hobbies	Reading, Swimming and Tennis
Passport	Valid Indan Passport issued 2015

All details mentioned above are correct to the best of my knowledge.