

MANDEEP MALIK

Current Address : Military College of Telecommunication Engineering, Indore

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EXPERIANCE

Instructor Class - A/ Project Coordinator

Jul 19 - Present

Military College of Telecommunication Engineering, Indore

Indore, M.P

- 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 from IIT-Madras.
- 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

Indore, M.P

- Teaching Faculty for Graduate Engineers Equipmentorientation 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 Batallion in Counter Insurgency and Counter Terriorist role in Kashmir.

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 E1/ PRI on Nortel Passport.

Network Analyst

Jun 05 - Mar 06

HCL Technologies

Noida, UP

- Router programming on diffrent 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 PER Reduction .
- Subjects : Machine Learning and Digital Signal Processing.
- CGPA : 7.9 (Course Work)

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 in handling Computer/Data Networks, Optical Networks, Cisco Router, L2/L3, 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 young Officers 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 Military Tactics, Weapon Handling, Combat Operations 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 : 9NJZXYRMFFUB

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

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

PERSONAL DETAILS

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| 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.