

FACULTY PROFILE

Mr. Inderkumar Kochar (inderkumarkochar@sfitengg.org)

Assistant Professor
Department of Electronics & Telecommunication Engineering

❖ Date of Joining the Institute: **27/08/2012**

❖ Education:

1. M.Tech. (Communication Systems)
Indian Institute of Technology, Roorkee
Dissertation Title: Performance Evaluation of Hybrid ARQ using LDPC codes
2. B.E. (Electronics & Telecommunication)
D. J. Sanghvi College of Engineering, Mumbai
Project: DSSS Transmitter and Receiver Module

❖ Total Experience in Years: **9.5 Years**

Teaching: 8.5 Years

- Assistant Professor*: 9 years
* Based on the equivalence of posts for the 4th and 5th Pay scales w.r.t. the 6th Pay scale

Industry: 6 months

- Design and Validation Engineer at Rancore Technologies, Mumbai

❖ Courses Taught:

- Advanced Antennas & Arrays (PG Level)
- Advanced Microwave Engineering (PG Level)
- Microwave and Radar Engineering/ Fundamentals of Microwave Engineering/Microwave Devices & Circuits (UG Level)
- Discrete Time Signal Processing (UG Level)
- Digital Communication (UG Level)
- Electronic Simulation and Modeling (UG Level)
- RF Modeling & Antennas (UG Level)
- Antennas and Wave Propagation (UG Level)
- Filter Theory and Applications (UG Level)
- Integrated Circuits (UG Level)
- Digital Design (UG Level)

- ❖ Skill Sets:
 - Application software: CST Microwave Studio, HFSS, Keysight ADS, Hyperlynx 3D EM, MATLAB
- ❖ Research Advisor in the field of
 - Electronics and Telecommunication Engineering
- ❖ Active Research in
 - Planar Antennas
 - Smart Antennas
 - Microstrip Circuits
- ❖ Publication & Conferences: 04

<p>a. Conference</p> <p>National: -</p> <p>International: 03</p>	<p>b. Journal</p> <p>National: -</p> <p>International: 01</p>
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- ❖ Grants Fetched: Nil
- ❖ Awards:
 - Scholarship from Sir Ratan Tata Trust in 2001
 - Scholarship from JRD Tata Trust in 2002
- ❖ Professional Memberships:
 - IETE, ISTE Life Member
- ❖ Projects Guided :
 - M.E. Project: **5**
 - B.E Projects: **6**
- ❖ Academic Activities :
 - B.E Project Coordinator: 2013-present
- ❖ Interaction with Professional Institutions :
 - NMIMS University, Paper Setter, Moderator and Examiner
 - University of Mumbai, Moderator and Examiner
 - In-charge of Poster presentation session in IEEE International Conference CSCITA 2014. Reviewer for CSCITA 2014 and CSCITA 2017.
 - Reviewer for International Journal of Electronic Communication and Electrical Engineering

❖ R&D Activities:

A. Workshop, lecture series & Conferences Conducted:

- Conducted workshop on 'RF Filter Design' on 24th September and 1st October 2014 at SFIT, Mumbai.

B. Invited Talks

- Resource person for the STTP on 'Microwave Antennas for Wireless Communication' from 23rd-27th Nov. 2015 at Sardar Patel Institute of Technology, Mumbai.
- Invited talk on RF Filter Design using Hyperlynx 3D EM on 21st September 2015 at St. John College of Engineering and Technology, Palghar.
- Invited talk on 'OFDM Technology' in one week STTP on Advanced Communication techniques in July, 2013 at SAKEC, Mumbai
- Invited talk on 'Digital Filter Design' in one week STTP on Signal Processing with Image Processing in July, 2012 at SAKEC, Mumbai

C. Continuing Education Programs

- One week STTP on 'Design, testing, performance evaluation & applications of Microwave Antennae 2016', 21st -26th Nov. 2016, VIIT Pune.
- Workshop on CST Studio Suite, Workshop Series 2016, 17th March 2016, Mumbai.
- One week QIP on 'Signal Processing And Applications' held at Department of Electrical Engineering, 23rd -27th Feb, 2015, VJTI Mumbai.
- Two weeks training on HFSS, December 15-27, 2014 at ICRS, Jodhpur.
- Two weeks ISTE Workshop, Control Systems, December 2 - 12, 2014, SFIT, Mumbai conducted by IIT Kharagpur under the NMEICT (MHRD).
- Two weeks ISTE Workshop, Signals and Systems, January 2 - 12, 2014, SFIT, Mumbai conducted by IIT Kharagpur under the NMEICT (MHRD).
- Two weeks ISTE Workshop, Analog Electronics, June 4 - 14, 2013, SFIT, Mumbai conducted by IIT Kharagpur under the National Mission on Education through ICT (MHRD).