

FACULTY PROFILE

NITIKA RAI (nitikarai@sfitengg.org)

Associate Professor
Information Technology Department

❖ Date of Joining the Institute : **26/07/2001**

❖ Education :

1. Ph.D. (Electronics Engineering) Pursuing
Veermata Jijabai Technological Institute, Mumbai
2. M.Tech (Electronics & Telecommunication)
Veermata Jijabai Technological Institute, Mumbai, 2007
Thesis Title: Planar Antennas for UWB Applications
3. B.E. (Electronics & Telecommunication)
Government Engineering College, Jabalpur (MP) 1997
Project: Audio Video and Data Communication using Multimedia Modems

❖ Total Experience in Years : **19 Years (Till date)**

Teaching : **19 Years**

- Associate Professor: 9.5 years
- Assistant Professor: 9.5 years

❖ Courses Taught:

- Optical Fibre Communication Systems (UG/ PG Level)
- Advanced Antennas and Arrays (UG/ PG Level)
- Wireless Technology (UG Level)
- Computer Simulation and Modelling (UG Level)
- Information Theory and Coding (UG Level)
- Computer Networks (UG Level)
- Analog and Digital Communication Systems (UG Level)
- Electrical Circuit Theory (UG Level)
- Electronic Devices and Circuits (UG Level)

❖ Skill Sets:

- Application software: Matlab and Simulink, NS-2, SCILAB, ORCAD, PSpice.

- Computer language: C, C++, Python
- ❖ Active Research in
 - Wireless Sensor networks
 - Participatory Sensing
- ❖ Publication & Conferences :
 - a. Conference
 - National : 03
 - International : 04
- ❖ Professional Memberships :
 - Member of The Institution of Electronics and telecommunication Engineers (IETE)
 - Life membership of Indian Society for Technical Education (ISTE)
 - Student Member of IEEE, Bombay Section
- ❖ Projects Guided :
 - ME Projects: 02
 - B.E. Projects: 30
- ❖ Academic Duties:
 - Department Coordinator – IT Department
 - NBA department coordinator at SFIT
 - ARC coordinator for Admission to First year engineering courses by DTE, Maharashtra
 - Chief conductor for IIT-JEE exam at SFIT
 - Chief conductor for GATE exam at SFIT
 - Member Curriculum Development Council- Mumbai University
 - Joint Chief Conductor appointed by Mumbai University in Engineering Examination
 - Course Content Development for the subject BEE for FE Sem I for Association of Catholic Christian Minority Institutes
- ❖ Interaction with Professional Institutions :
 - University of Mumbai as Examiner and Moderator
 - University of Mumbai as Paper Setter
 - NMIMS University as Examiner and Moderator
 - NMIMS University as Paper Setter
 - Contribution in Question bank for UPSC Examination
- ❖ R&D Activities:
 - **Workshop, Lecture Series & Conferences Conducted:**
 - ISTE approved “Trends in Optical Networks” at SFIT Mumbai from May 21 to June 01, 2007
 - ISTE approved “Advances in Electrical Networks” at SFIT Mumbai from Jul 07 to Jul 11, 2008
 - ISTE approved “Engineering Faculty Induction Program” at SFIT Mumbai from June 29 to July 10, 2009
 - National conference “Infocom 2007” at SFIT, Mumbai from 02-04 Jan 2007 as

- Publicity and Marketing co-convenor
 - International Conference “Nanotechnology and Healthcare Applications” by IETE Mumbai Centre and IIT Bombay as a member of sponsorship committee
 - “Art of Setting Question Papers and Evaluation” at SFIT Mumbai on Aug 28, 2008 as a committee member
 - International Conference (CSCITA 2014) at SFIT, Mumbai in 2014 as program committee member
 - Two day colloquium “IT for Society” organized by IT Department at SFIT on 29th-30th Jan 2016 as coordinator
 - Two day colloquium “IT for Society” organized by IT Department at SFIT on 29th-30th Jan 2017 as advisor
 - International Conference (CSCITA 2017) at SFIT, Mumbai in 2017 as program committee member
 - Two day colloquium “IT for Society” organized by IT Department at SFIT on 19th-20th Jan 2018 as technical committee member
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- **Invited Talks**
 - In ISTE approved “Advances in Electrical Networks” at SFIT Mumbai in Jul 2008
 - In ISTE approved “Advanced Networking and Network Security” at VIVA, Virar in May 2017
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- **Invited Judge**
 - In IET- Present Around The World (PATW) 2015 on 7th Mar 2015
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- **Continuing Education Programs**
 - “Inhouse Faculty Development Programme” at SFIT Mumbai for 12 days in 2001.
 - ISTE approved “Optical Communication with Recent Trends” at DJ Sanghvi COE, Mumbai from Nov 16 to Nov 27, 2004
 - ISTE approved “VLSI: Devices to Applications” at Thakur COE, Mumbai from Nov 20 to Dec 01, 2006
 - MHRD/ AICTE Summer School Programme on “NBA Accreditation” at Atharva COE, Mumbai from Jun 23 to Jun 27, 2008
 - ISTE approved “Developing Managerial Skills for Senior Technical academicians” at SFIT, Mumbai from Jan 05 to Jan 09, 2009
 - National conference “Infocom 2007” at SFIT, Mumbai from 02-04 Jan 2007
 - “Fibre Optics interconnection techniques” at Smt. Indira Gandhi COE, Mumbai on Mar 28 and 29, 2007s
 - “Fundamental of Circuit Simulation” at SPIT, Mumbai on Aug 28, 2008
 - “Insight 09” at Infosys Pune, May 12-13, 2009
 - “Mobile Communication – A Practical Approach (J2ME, NS-2) at Xavier’s Institute of Engineering on Aug 11-12, 2011.
 - “I-Know-Vention” at Dept of Computer Science, Mumbai University on 27 Jan 2012.
 - IEEE India Council Indicon 2013
 - CE-QIP PG Level Part Time Programme, Jan-Apr 2014 IITB
 - Internship Feb-Aug 2014 at TCS, Mumbai
 - AICTE sponsored “Advances in Wireless Communication”, 3-7 Feb 2014 at VJTI Mumbai

- AICTE sponsored “ RF circuit design”, Feb 2015 at VJTI, Mumbai
- “Solving Optimization Problems with MATLAB, MATLAB Academic Tour 2015 at Indian Institute of Technology – Bombay on 23rd July, 2015
- “Modeling and Simulation of Mechatronics Systems Using MATLAB and Simulink” organized by Mathworks in Mumbai on 13th Oct 2015
- ISTE approved “Recent Trends in Wireless Sensor Networks and its Simulation using NS2” from 7th-11th Dec,2015 at Thakur College of Engineering and Technology, Mumbai
- “Train the Trainer Workshop on programming with Python” at Infosys Limited, Pune DC, 26-27 Feb, 2016