

FACULTY PROFILE

Prachi Sandesh Raut (prachiraut@sfitengg.org)

Associate Professor
Information Technology

❖ Date of Joining the Institute : **23/09/2002**

❖ Education :

1. Ph.D. Electronics Engineering
Veermata Jijabai Technological Institute, Mumbai, (Thesis submitted)
Dissertation Title: Coverage and connectivity modelling of molecular communication based nano machines networks
2. M.Tech. Electronics
Fr. Conceicao Rodrigues College of Engineering, Mumbai 2008
Thesis Title: Implementation of image compression techniques using Burrows-Wheeler transform
3. B.E. Electronics
Shah and Anchor Kutchhi Engineering College, Mumbai, 2001
Project: Heart beat analyzer

❖ Total Experience in Years : **15 Years (30/06/2017)**

A. Teaching : 15 Years

- Associate Professor: 05 years
- Assistant Professor: 04 years
- Senior Lecturer: 03 years
- Lecturer: 03 years

❖ Courses Taught:

- Simulation and Modeling of Communication Systems (PG level)
- Computer Simulation and Modeling (UG Level)
- Wireless Technology (UG Level)
- Information and Network Security (UG Level)
- Convergence of Technology in Networking and Communication (UG Level)
- Digital signal processing (UG Level)
- Digital image processing (UG Level)

- Satellite communication (UG Level)
- Electronics Devices and Circuits (UG Level)
- Basic Electrical and Electronics Engineering (UG level)
- Electronics- 1 (UG Level)
- Electronics-2 (UG Level)

❖ Skill Sets:

- Application software: Matlab and Simulink, NS-2, PSpice, GPSS.
- Computer language: C, C++, Java

❖ Active Research in

- Nano scale communication
- IoT based applications

❖ Publication & Conferences : (Till Date)

a. Conference

National : 02
International : **03**

b. Journal

National : NIL
International : **03**

❖ Professional Memberships : **IEEE, IETE, ISTE**

❖ Service to Professional Bodies:

- CSI-Branch Counselor for SFIT-CSI 2010-11

❖ Projects Guided :

- B.E Project: **25**

❖ Interaction with Professional Institutions :

- University of Mumbai as Examiner and Moderator

❖ R&D Activities:

Workshop, Lecture Series & Conferences Conducted:

- Program committee coordinator and reviewer for IEEE conference CSCITA 2017 organized by SFIT, Mumbai
- “IT for Society: Colloquium”, Co-ordinator ,SFIT, 20-21st Jan. 2017, Mumbai.
- “IT for Society: Colloquium”, Co-ordinator, SFIT, 29-30th Jan.2016, Mumbai.
- PhD colloquium for research scholars at VJTI, Mumbai on 17-18 Mar 2015
- IEEE Technical activities volunteer training workshop, 21st Jan. 2015, Mumbai, India.
- PhD colloquium for research scholars at VJTI, Mumbai on 3-4 Mar 2014
- Mission 10X Workshop by WIPRO on 1-5 August 2011 at FRCRCE, Mumbai
- Learn Linux System Administration and Networking + Build Own Linux (1-6 July 2008) at Sardar Patel Institute of Technology, Mumbai
- Two–day seminar on Recent Development in Biomedical Instrumentation at FRCRCE

- 31 Aug – 1 Sept. 2007
- IETE Annual Symposium and Workshop on Embedded System Applications in Electronics and Telecommunication (26-27 March 2004) at Vashi, Navi Mumbai.
 - Mobile Cellular system and Wireless LAN (30-31 July 2004) at K.J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai
 - In-house faculty development programme in Pedagogy 12-26th July, 2003, SFIT , Mumbai
 - Seminar LOOPS 2K2 at Fr. C. Rodrigues Institute of Technology, Vashi

Invited Talks

- Technical lecture on “5 Easy Hacks for Writing Effective Technical Paper”, for ITSA on 1st March 2017.
- Lecture on “Internet of Things” For Training and placement activities 6 October 2016
- Webinar on “Nano scale Networks” organized by Infosys on 4 September 2015
- R & D lecture at SFIT on “Nano scale Networks” on 1 August 2015
- Resource person in Faculty Induction Program, July 2011, SFIT, Mumbai

Continuing Education Programs

- One week FDP on “IoT applications” organized by VJTI, March 15-21 2017.
 - One week FDP on “RF circuit design ” organized by VJTI, Feb. 2015
 - One week FDP on “Advances in Wireless Communication” organized by VJTI, Mumbai 2014
 - One week FDP on “Signal processing and applications”, organized by VJTI, Mumbai 2013
 - AICTE approved course on Open source software at VIT, Mumbai in June 2012
 - “Soft Computing Techniques” 5th December 2008 to 10th December 2008 at St. Francis Institute of Technology, Mumbai
 - Learn Linux System Administration and Networking + Build Own Linux (1-6 July 2008) at Sardar Patel Institute of Technology, Mumbai
 - “Network Administration in Linux” (1-6 July 2008) at Sardar Patel Institute of Technology, Mumbai
 - “Signal Processing and Communication Engineering” (10-20 December 2007) at D.J. Sanghvi College of Engineering, Mumbai
 - Applications of Digital Signal Processing (19-20 January 2007), at Fr. Conceicao Rodrigues College of Engineering
 - Electro-info-Comm, (4-6 January 2007), at St. Francis Institute of Technology
 - “Embedded DSP: Design and Applications” (5-16 June 2006) at St. Francis Institute of Technology
 - Mobile Cellular system and Wireless LAN (30-31 July 2004) at K.J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai
 - Embedded System Applications in Electronics and Telecommunication (26-27 March 2004) at Abbott Hotel, Vashi
 - In-House Faculty Development Programme in Pedagogy (12-26 July 2003) at St. Francis Institute of Technology
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