

FACULTY PROFILE

Dr. JOANNE GOMES (jgomes@sfitengg.org)

Professor and Head
Information Technology Department

❖ Date of Joining the Institute : **03/09/2001**

❖ Education :

1. Ph.D. (Technology)
SNDT University, Mumbai, 2015
Dissertation Title: Digital Modulation Techniques To Optimize The Quality of Indoor UWB Communication
2. M.E Electronics and Communication
Mumbai University, Mumbai, 2005
Thesis Title: Design of Short Range Ultra-Wideband Transceiver
3. B.E. Industrial Electronics
Shivaji University, Kolhapur, 1988
Project: Microcontroller Based DC Motor Controller

❖ Total Experience in Years : **28 Years 10 months (10/07/2017)**

A. Teaching : 15 Years 10 months

- Professor: Since July 1, 2017 SFIT Mumbai
- Associate Professor: 06 years, 06 months SFIT Mumbai
- Assistant professor: 08 years, 10 months, SFIT Mumbai

B. Industry : 13 Years

- Works Manager, Emmanuel Electronics Mumbai, 05 years
- Technical Manager, ACE Electronics Mumbai, 05 year
- Production In-charge, APTEK Electronics, 02 year
- R&D Engineer Target Marketing Mumbai, 01 year

❖ Courses Taught:

- Advanced Digital Communication (UG/ PG Level)
- Open Source Technologies (PG Level)
- Data Mining and Business Intelligence (UG Level)
- Microcontrollers and Embedded Systems (UG Level)
- Analog and Digital Circuits (UG Level)

- Digital Signal and Image Processing (UG Level)
- Electronic Devices and Circuits (UG Level)
- Internet Programming (UG Level)

❖ Skill Sets:

- Application software: Matlab and Simulink, NS-2, SCILAB, ORCAD, PSpice, Proteus, KEIL, CodeVision, MPLAB, WEKA etc.
- Computer language/scripts: C, Java, Sql, Python, R, PHP, HTML, VB etc.

❖ Research Advisor in field of

- Electronics and Telecommunication
- Computer Engineering
- Information Technology

❖ Active Research in

- Wireless Communication Networks
- Embedded Systems

❖ Publication & Conferences : (10/07/2017)

a. Conference

National : 02
International : 10+

b. Journal

International : 10+

❖ Grants Fetched : (10/07/2017)

- Minor Research Grant from University of Mumbai for research project on ‘Smart Classroom Lighting System with integrated Equipment Security’, in 2013-14

Professional Memberships :

- Life member of The Institution of Electronics and telecommunication Engineers (IETE)
- Life member of Indian Society for Technical Education (ISTE)
- Member of IEEE, Bombay Section
- Member of Executive Committee IEEE, Bombay Section

Service to Professional Bodies:

- IEEE -Branch Counselor for SFIT-IEEE 2005-08
- Reviewer – IEEE Communication Letters 2014
- Member- Skill and Knowledge Enhancement Program (SKEP) committee IEEE Bombay Chapter 2014-15
- Secretary, Women in Engineering (WIE) IEEE, Bombay Section 2015-16

Projects Guided :

- PhD : 04 under guidance
- M.E Project: 5+
- B.E Project: 20+

Academic Duties:

- HOD- Dept. of INFT
- Chief conductor for IIT-JEE exam at SFIT
- Chief conductor for GATE exam at SFIT
- Approved guide for PhD program at SFIT Mumbai

Interaction with Professional Institutions :

- Convener - Exam-Squad committee University of Mumbai
- Joint Chief Conductor University of Mumbai
- University of Mumbai as Examiner and Moderator
- University of Mumbai as Paper Setter
- NMIMS (Mumbai) as Paper Setter and Moderator
- SNDT (Mumbai) as Examiner and Moderator
- SNDT (Mumbai) as Paper Setter and Moderator

R&D Activities:

Workshop, lecture series & Conferences Conducted:

- ISTE approved Two week STTP on “Embedded DSP” SFIT Mumbai from Jun. 05 to Jun. 15, 2006
- Workshop on “MATLAB and Simulink” IEEE Chapter SFIT Aug. 2012
- R&D lecture on “Writing Technical Paper” Dept. of IT SFIT 2012
- Program Committee Convener, International Conference, CSCITA, SFIT Mumbai Apr. 2014
- ISTE approved Two days STTP on “Ph.D. Preparatory 2016” SFIT Mumbai from Jan. 08 to Jan. 09, 2016
- R&D lecture on “Research Challenges in IOT” at SFIT on Mar. 2016
- Co- Chair, International Conference, CSCITA, SFIT Mumbai Apr. 2017.

Invited Talks

- In IEEE Bombay section ‘SKEP’ lecture series, lecture on ‘Getting Started with Raspberry-Pi’, at VIT Pune, at Don Bosco Inst. of Tech, at Usha Mittal Inst. of Tech and at Xavier’s Inst. of Tech Mumbai 2015
- Webinar on ‘ Getting Started with Raspberry-Pi’ Infoys knowledge sharing program Jul. 2015
- In ISTE approved Faculty Induction Program (FIP) lecture on “Role of Teacher in Different Cadre” SFIT Jul. 2015
- In colloquium “IT for Society” lecture on “IT for Education” Dept. of IT, SFIT Jan. 2016
- Hand-on Session on Linear algebra and Probability using R programming” in one week AICTE-ISTE approved STTP on “Applications of Maths” at SFIT Mumbai from Jul. 01 to Jul. 06, 2017
- Chief Guest and key note speaker for one week AICTE-ISTE approved STTP on “ Exploring R and Python” at Atharva college of Engineering Mumbai from Jul. 10 to Jul. 15, 2017

Invited Judge

- Judge for the Project Exhibition 'IC the Future' at IEEE-TCET Mumbai 2012
- Judge for the Presentation Competition: 'Present Around the World' (PATW) organized by IET-TCET Mumbai 2015

Continuing Education Programs

- In-House Faculty Development Programme – I, held at SFIT during Sep. 15, 2001 to Feb. 09, 2002
- In-House Faculty Development Programme – II in Pedagogy, held at SFIT during Jul. 08-20, 2002
- Microcontroller Applications in Power Electronics, by CEP IIT Bombay Jan. 02-04, 2003
- ISTE approved "Digital Communication with Recent Development" by DJCOE Mumbai during Dec 20-31, 2004
- ISTE approved "Embedded System Design: A Unified Hardware/ Software Approach" by K J Somaiya COE Mumbai during Jun. 13-24, 2005
- ISTE approved "Wireless Technologies and Networking" by DJCOE Mumbai during Dec. 05-16, 2005
- ISTE approved "Emerging Microelectronics and VLSI Technologies for Communication System" by VCET Mumbai during Dec. 19-30, 2006
- ISTE approved "Emerging Trends in Wireless Computer Networking" by RGIT Mumbai during Nov. 20-24, 2006
- One week STTP on "Teaching Engineering Effectively" by CEP IIT Bombay Sep. 27 to Oct. 01, 2007
- One week workshop on "Linux System Administration and Networking" by SPIT during Jul. 01-06, 2008
- One week STTP on "Developing Managerial Skills for Senior Technical Academicians (Disha-09)" by SFIT Mumbai Jan. 05-09, 2009
- One week workshop on "High Impact Teaching Skills (DALE CARNEGIE TRAINING)" by Wipro Mission10X during Nov. 23-29, 2009
- AICTE approved "Moving Towards Open Source" by VIT Mumbai during Jun. 25 to Jul. 06, 2012
- TEQIP-II sponsored one week FDP on "Research Methodology" organized by VJTI, Mumbai Jan 2014
- ISTE approved two week FDP on 'Signals & Systems' by National Mission on Education Through ICT during Jan. 2014
- ISTE approved two week FDP on 'Computer Networks' by National Mission on Education Through ICT during May. 2014
- ISTE approved two week FDP on 'Cyber Security' by National Mission on Education Through ICT during Jul. 2014
- ISTE approved two week FDP on 'Control Systems' by National Mission on Education Through ICT during Dec. 2014
- Two days workshop on "Chankya in You" by SFIMR Mumbai during Feb. 20-21, 2015
- ISTE approved "Open Source Technologies for Research" by VIT Mumbai during Jun. 27 to Jul. 01, 2016
- CEP on "Cryptography and Network Security" at CSE department IIT Bombay from Jan. to Apr. 2017

