Prof. Inderdeep Kaur Aulakh

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Experience

Dec.2019- till date:	Professor- Deptt. of IT,UIET,Panjab University, Chandigarh
Dec.2016- Dec. 2019:	Associate Professor- Deptt. of IT,UIET, Panjab University, Chandigarh
Jan.2015- Jan. 2018:	Co-ordinator- Deptt. of IT, UIET, Panjab University, Chandigarh
Aug.2003- Dec. 2016:	Assistant Professor- Deptt. of IT, UIET, Panjab University, Chandigarh
Jan.2003- Aug. 2003:	Assistant Professor- Deptt. of ECE, Punjab Engineering College, Chandigarh
Jan.2002- Jan. 2003:	Lecturer- Deptt. of ECE, Punjab Engineering College, Chandigarh
Aug.1999- Jan. 2000:	Lecturer- Institute of Engineering & Technology, Bhaddal, Punjab
July 1993- Aug. 1999:	Executive Engineer- Punwire, Mohali, Punjab

Qualification

Doctorate:	Ph.D. Faculty of Engg. (Electronic Communication Engineering) UIET, Panjab University, Chandigarh Year: 2017
Post-Graduation:	Master of Engineering (Electronics) Punjab Engineering College, Panjab University, Chandigarh Year: 2002 Percentage: 77.6% Position: 2nd in Panjab University
Graduation:	Bachelor of Engineering (Electronics & Electrical Communication) Punjab Engineering College, Panjab University, Chandigarh Year: 1993 Percentage: 86.6% Position: 1st in Panjab University

Research Domain

Wireless Communication , Cognitive Radios, Wireless Sensor Networks, Machine Learning, Internet of Things

Subjects Taught

Wireless Communication, Wireless & Mobile Communication, Digital Signal Processing, Embedded System Design, Antenna & Wave Propagation, Microwave Theory, Networks Analysis and Transmission Line Theory, Digital System Design.

Projects Submitted

1. IOTree-IOT based Air Pollution Monitoring and Control System submitted to Natural Resources Data Management System division of Department of Science and Technology of Government of India for approval

2. Unified Command and Control (UCC) for smart management of Electrical Energy and Water Supply framework based on OneM2M standard submitted to MEITY.

Research Supervised / Supervising

PhD Scholars: Supervising- 5
M.E. Scholars: Supervising-3;   Degree Awarded:23

Extension Activities and Research Interaction

- Invited talks, External Examiner and Selection Committee member at various institutes like NITTTR Chandigarh, CSIR-CSIO Chandigarh, PEC University of Technology, Gemini Solutions Pvt. Ltd. Gurgaon, Employment Hero NSW Australia etc.
- Judge Smart India Hackathon July 8-12, 2019
- Reviewer for multiple International Journals and Conferences:
  - IEEE Access
  - Journal of Computer Science, Science Publication
  - Wireless Personal Communications
  - Neural Processing Letters
  - IEEE International Conference Recent Advances in Engineering and Computational Sciences, 2015
  - IEEE International Conference on Computational Intelligence and Communication Networks, 2016
  - IAES International Journal of of Artificial Intelligence (IJ-AI)

Membership of Professional Bodies

  - Fellow of Institution of Electronics and Telecommunication Engineers (IETE) vide F237380

Administrative and Academic Responsibilities

  - Member of University level Committees: Board of Studies for Information Technology, Inspection Committee, Equivalence Committee, 10th Managing Committee-UIET, Panjab University, Chandigarh.
  - Member Board of Control, UIET, Panjab University, Chandigarh.
  - Member Library Committee, Technical committee, Magazine Committee, Academic & Administrative Committee, Finance Committee, Training and Placement Committee, Auction Committee, Grievance Redressal Committee, Degree Award Ceremony committees of UIET.
  - Incharge Swachhta Ambassador Committee of UIET.
  - Scrutiny of CAS forms for regular posts of Assistant Professor in IT.
  - Centre Superintendent of University Exams for BE/ME at Panjab University.
  - Member of Research Monitoring Committees (IT, CSE, ECE), Research Advisory Committees, UIET, Panjab University, Chandigarh.

Seminars/Workshops Organized

- ○ Organized oneM2M workshop in collaboration with TSDSI under India-EU Cooperation on ICT-Related Standardization, Policy and Legislation on Feb 19, 2018 at Panjab University, Chandigarh.
- ○ Organizing Secretary for Engineering and Management Sciences Section of 12th Chandigarh Science Congress, Chascon held at Panjab University, Feb, 2018
- ○ Organized workshop on Swayam and Swayam Prabha on Jan 19, 2018 at UIET, Panjab University. Resource Person: Dr. Manpreet Singh Manna, Director AICTE.
- ○ Organized Engineering Section for 11th Chandigarh Science Congress, Chascon 2017 held at Panjab University from March 9-11, 2017.
- ○ Organized symposium "Emerging Trends in IT" on Nov 17-18, 2016 at Panjab University, Chandigarh.
- ○ Organized symposium "Emerging Trends in Telecommunication & IT" on Nov 12-13, 2014 at Panjab University, Chandigarh.
- ○ Organized symposium "Emerging Trends in Telecommunication & IT" on Oct 3-4, 2013 at Panjab University, Chandigarh

Workshop/Courses Attended

- ○ National Workshop / FDP on Managing Virtual Classes and Open Educational Resources, organized by CALEM , Panjab University under the aegis of MHRD, GOI, June 24-29, 2020
- ○ Machine Intelligence and Deep Learning: An Interdisciplinary Perspective Workshop at CSIR-CSIO, Sector 30, Chandigarh, May 21-22, 2019
- ○ One week Short term course on "Use of Digital technologies in Teaching Learning" at NITTTR, Chandigarh, Feb 25- March 1, 2019.
- ○ Workshop on Cognitive Skills Design and Critical Thinking under Institution Innovation Council on Nov 20, 2018 at Panjab University, Chandigarh.
- ○ Workshop on 3D modeling and printing skill development (funded by MHRD, under Design innovation Centre) held at UIET, Panjab University, Chandigarh from Sept 21-23, 2017.
- ○ Six days TEQIP-II sponsored FDP "Teaching Pedagogies: Sharpen the Tools" organized by Dr. SSBUICET, Panjab University, Chandigarh from 19th - 24th Sept 2016.
- ○ Workshop on car safety and Internet safety by Consumer Voice NGO in collaboration with Google and Consumer International held at Deptt of IT, UIET on July 20, 2016.
- ○ Attended Symposium on Optics and Photonics based Technologies & Instruments for Civil Society at CSIR-CSIO, Chandigarh on Oct. 21, 2016.
- ○ Six days UGC sponsored Short Term Course "Harmonizing Self: Becoming and Being" organized by Human Resource Development Centre, Panjab University, Chandigarh from 11May 2016- 17 May 2016.
- ○ TEQIP sponsored workshop on "Recent Trends in Signal Processing" organized by Electronics & Communication deptt. UIET, Panjab University from Apr 28-29, 2016.
- ○ Attended 47th Mid-term Symposium on Modern Information & Communication Technologies for Digital India at IETE, Chandigarh on Apr. 9-10, 2016
- ○ Six days Refresher Course "Saksham – IT Champion Training Project" by Microsoft from 16-21 March 2015 organized at UGC Academic Staff College, Panjab University, Chandigarh.
- ○ Seminar on "System Design using Optiwave" jointly organized by Deptt. of ECE, UIET, Panjab University and Gigasoft India, New Delhi on Nov 21, 2014.
- ○ Symposium on "Emerging Trends in Telecommunication & IT" organized by UIET, Panjab University, Chandigarh under Teqip-II on Nov 12-13, 2014.

- ○ Workshop on Quality Initiatives in Technical & higher Education Institutions, organized by Engineering Staff College of India on March 21 – 23, 2014
- ○ Management Development Programme for Higher Educational institutions at ISB, Mohali on Feb. 6 - 8, 2014
- ○ Attended a two day faculty training program on NuMicro ARM Cortex-MO and its Applications organized by Deptt of EEE, UIET, Panjab University, Chandigarh on Jan. 22-23, 2014.
- ○ FDP on Achieving Excellence in Technical Education, July 16-19, 2013
- ○ FDP on Business Intelligence & Cloud Computing, January 9, 2013
- ○ Regional Level Workshop on MATLAB, UIET, Panjab University, Chandigarh, July 18, 2012
- ○ UGC sponsored National Seminar on "Web Information Systems & Technologies" at Post Graduate Government College for Girls, Sector 11, Chandigarh, November 9th , 2011
- ○ Symposium on "Image Processing Analysis and Clinical Applications, July 16-17, 2010

Scholarly Contributions

- ○ Total Number of Publications: 108
- ○ Refereed International Journals: 34
- ○ International Conference proceedings: 23
- ○ National Conferences/Seminars: 45
- ○ Books: 01
- ○ Book Chapters: 06

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Inderdeep Kaur Aulakh
17th September, 2021