

## Significant Contribution through Teaching, Research innovative/creative activity and other activity during past five years:

### a) Teaching and Research

#### Teaching

- Teaching undergraduate/postgraduate level courses in Computer Control, Microprocessors, Electronics, Process-Instrumentation, Electronics Instrumentation, and Process Automation since **Jan.1984 (More Twenty Five years)**.
- Working as Associate Professor since August 2006 (about Three years)
- Worked as Assistant Professor for more than **Ten years and as Lecturer more than Twelve years** at DPT, IITR-Saharanpur Campus.
- Delivered Lectures to industry participants (Mill Personals) at TNPL, Karur in **2007 and 2008**.

#### Research

- Published **One Hundred and Six Research Papers (106)** in **past five years (Referred Journals-40, Conferences-66)**. Accepted **Thirteen Research Papers (13)** (Referred Journals-8, Conferences-5)
- **Six** Ph.D. theses have been awarded under my supervision, One viva is due **.Two** are likely to be submit. Two are ongoing.
- **Ten** M. Tech. theses have been awarded under my supervision, and **one** is ongoing.
- **Editor and Reviewer** of International and National Journals of Repute.

### b) Awards and Books:

#### Awards

- Received **Khosla Annual Research award**, cash prize and a Silver Medal for the best paper By University of Roorkee in **Nov. 2000**.
- Received Best Research paper award, cash prize and Medal by National Conference on Emerging Technologies in Computer Science (ETCS-2007) held at MIET, Meerut, (Sponsored by AICTE- New Delhi), **Sept. 2007**
- Selected Best Research paper award, an cash prize by International Conference on Emerging Trends in Engineering & Technology (ICETET-08), (IEEE Computer Society **USA**), **July 2008**.
- Received Best Research paper award, cash prize and Medal by 3<sup>rd</sup> International Conference on Advance Computing & Communication Technology, APIIT, Panipat, India. (**ISBN: 81-87433-68-X**), **Nov. 2008**.

#### Books

- Book Chapters in “**Emerging Topics and Technologies in Information Systems**” Published by Idea Group Inc. (IGI) Publication, USA on “ A Study on Secure Characteristics of Wireless Ad-hoc Networks” Co-authored by Sandip Vijay, edited by Miltiadis D. Lytras, Patricia Ordonez De Pablos ,(ISBN 1605662224) pp 115-136, **Feb. 2009**.
- “Digital Communication” (in progress) reviewer and publisher Vikas Publication, New Delhi. Co author: Sandip Vijay, Ph.D. student from **Oct. 2008**.
- “Analog Communication” (in progress) reviewer and publisher Vikas Publication, New Delhi. Co author: Vishal Gupta, Ph.D. student from **Oct. 2008**.

### c) Innovative/Creative Activity at Department:

- A new 120 line EPABX System has been Installed and commissioned under my supervision and new telephone directory has been prepared for IIT-R, Saharanpur Campus in **2008-2009**.

- Set up and development of a Distributed Computer System (DCS) Control Lab for student projects, thesis and research work under AICTE sponsored project as PI and In-charge Instrumentation Lab. **1999-2008**.
- Set up a Electronics Lab. for B.Tech first year students (about 100) in **2007-2009**.
- Working as O.C. Instrumentation and Control Lab. **2007-2009**.
- Courses developed related to process instrumentation and control for both PG and UG level i.e. Pulp and Paper, Polymer Science (IDD) and Process Engg with MBA (IDD) in **2007-2008**.
- Courses developed related to process Wireless Communication, Advanced Computer Network for Ph.D. students in **2007-2008**.

**d) Innovative/creative activity Outside Department:**

*(Collaboration with faculty/staff of other Universities /Industry/Research Institute)*

- Dr. S.B. Mal, Professor, Dr. M.L. Mata, Asstt. Prof. And Dr. B. K. Kaushik, Asst. Prof. Regional Engineering College (REC), Kurukshetra by jointly guiding M.Tech. Thesis.
- Training to the students of IET., MJP, Rohilkhand University, Bareilly .
- Dr.A.L.Sharma, Director, Institute of Instrumentation, DAVV, Indore by jointly guiding M.Tech. Thesis.
- Worked with Prof. D. Ing. Habil dieter Liepsch, FHM & TECH. UNIVERSITY, MUNCHEN, GERMANY on research project.
- Mr. Singh, GM, Star Paper Mill, Saharanpur jointly guiding M.Tech. Thesis.
- Dr. V.K.Bansal, Professor and Dean IRD, Netaji Subhash Institute of technology, New Delhi by jointly guiding M.Tech. Thesis.
- Mr. Raj Kapoor, Asstt. Manager, Instrumentation, Ballarpur Paper Industries, Yamuna Nagar by guiding M.Tech. Thesis.
- Dr. Ashok Kumar, Director, Advance Training Institute for Electronics and Process Instrumentation, Dehradun by helping them for designing short term courses on Instrumentation and computer control.
- Dr.R.K.Singh Professor, KEC, Dwarahat, Almora , Jointly submitting research and development project in UCOST, Uttranchal.
- Mr.Bhupendra Singh, Scientist-C, Jointly submitting research and development project in DEAL.
- Dr. R. Jha, Head, Electrical & Inst. Engg. NIT, Jallendhar by jointly guiding Ph. D. student.
- Dr. Aruna Jain, Faculty of computer Sc., BIT-Ranchi, by Jointly guiding M.Tech. Thesis.

**e) Contribution during Extra Ordinary Leave (Aug. 2003- Aug. 2005)**

- Taught advance Course on 8086 Microprocessor, which includes the MASM, Disk-edit and Debug software at BITS-Pilani, Dubai Campus (BTDC).
- Attended a Technical Seminar on “Application of PLC for BMS” organized by Saia-Burgess Electronics of Switzerland and Citect Technologies, Australia, on 20th October 2003 at the Le Meridien Hotel, Dubai.
- Supervised PS students in the area of Design and Implementation of Integrated solutions of SAIA-PLC based Control System with Citect-SCADA based facility management System with the collaboration of “Global Engineering Solution, Dubai.”
- Supervising PS students in the area of PLC application in BMS with the collaboration of Siemens Building technologies, Dubai.
- Setup instrumentation and control lab at BITS, Pilani, Dubai- Campus.

- Involved in installation and commission of Allen Bradley PLC at BPDC, Dubai.
- Guided IV years (EEE) students for their major projects.
- Worked as Group Leader EIE, Chief Warden, In-charge student discipline at BITS, Pilani Dubai Campus.