

RESUME

Personal Information

Name : **Dr. Usha Raghavan**
Designation : Head Of Department
Department : **Information Technology**
Vidya Prasarak Mandal's Polytechnic, College
Campus, Thane (W) – 400601(MS).
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Educational Qualifications

- **Ph.D. (Nanoscience / Nanotechnology) National chemical Laboratory, Pune University, Pune**
- **MSc(Applied Electronics) , Regional Engineering College(NIT), Trichy, Tamil Nadu**

Experience

Sl. No.	Name & Address of the Employer	Period of service in each post		Designation of post held	Nature of work and level of responsibilities
		From	To		
1	V.P.M.'s Polytechnic, Thane	01-01-2007	Onwards	HOD	Administration,Policy implementations,Ensuring conducive learning ambiance, Teaching
2		01-07-2003	01-01-2007	In-Charge Head	Development of Lab,Development of Learning ResourceModernisation, Teaching,Arranging Training Programmes
3		01-07-1999	01-07-2003	Senior Lecturer	Development of Lab,Development of Learning resourceTeaching, Arranging Training Programmes
4		01-07-1989	01-07-1999	Lecturer	Delivery of subject lecture as per teaching plan

Accomplishments

1. Developed various laboratories for Information Technology Departments at the institute.
2. Sole author of the book on “**Linear Integrated Circuits**” for 2nd year diploma students of Electronics group
3. Have authored a book on **SahasraNamam- a physical Science Namavali**.
4. Presently working on a book on “**Nanotechnology in Electronics**” for Shroff publishers.
5. I have initiated the activities of the **Entrepreneurship Development Cell** of the institute and many programmes are organized for the students registered in this cell.
6. I have initiated the **Institute Innovation Council** and am working as the President of the cell. It is an effort to have a Technology Business Incubator. This is under the aegis of the **MHRD Innovation cell**, New Delhi. The institute received 3* in the year 2018-19
7. Have initiated a strong **Industry Institute Interaction**. I have been involved in providing training to industry technicians from M/s Aplab ltd, Thane and IPCL, Nagothane.
8. Have worked as NBA Coordinator.
9. Have actively taken part in the development of I Scheme curriculum (Industry based) for Maharashtra State Board of Technical Education(MSBTE)
10. Developed laboratory manuals, Teacher Guide, Question banks for many courses for MSBTE
11. Worked as a subject expert for the development of curriculum for MSBTE for the Computer group and Electronics group for G, E, C, A schemes.
12. Have worked as Organizing secretary of 3 National level conferences “**Latest Trends in Nanotechnology**”- 2008, “**Emerging trends in Solar technology**”- 2013, “ **Artificial Intelligence and Big data- a journey to future**” - 2019
13. Organized regular programmes of Career Guidance, Personality Development, IT Exhibitions for students of polytechnic in addition to quality teaching.
14. Presented **Technical Papers at State, National and International level conferences**.
15. I have organized a 2 week ISTE approved refresher course on “Teaching methodologies” for Polytechnic teachers. 40 teachers participated in the refresher course

Content Updating programmes Attended/ Organised

Have successfully completed online courses conducted by NPTEL on the subjects” **Introduction to Internet of Things**”, “**Surface Engineering of Nanomaterials** “and “**Joy of Computing with Python**”

Power Devices- 2 weeks

Institutional Management-2 Weeks)

Entrepreneurship Development - 2 Weeks

Total Quality Mgmt. & ISO 9000 – 4 Weeks

Bio Informatics – 2 Weeks

Teaching Methodologies – 2 Weeks

Management skills in technical teachers -2Weeks

Embedded system Design -1 Week

Teenagers: Issue and challenges related to mental health – 1 Week

Organized a MSBTE sponsored Content updating programme on “Understand and Build .Net based applications” between 28th Dec 2009- 1st Jan 2010 for the polytechnic teachers. 23 teachers participated.

Organized a MSBTE sponsored Industrial Training in association with M/S D link for Polytechnic Teachers on Networking

Publications:

	Title of Paper	Name of Seminar	Year
1	Synthesis of CdMnS nanoparticles in aqueous medium	International Journal of Nanoscience and Nanotechnology	Vol 5, 1-11, 2005
2	Storage of Hydrogen through Carbon Nanotubes	International Hydrogen Energy Congress and Exhibition, Istanbul, Turkey	13-15 July. 2005
3	Energy of Future – Hydrogen	National Seminar on Alternative Energy Sources, V.P.M.'s Polytechnic, Thane	27-28 August 2005
4	Socio-economic aspects of Hydrogen Energy-Indian Perspective	International Forum "Hydrogen Technologies for Energy Production", Moscow, Russia	6-10 February 2006
5	Storage of Hydrogen in Carbon Nanotubes	International Forum "Hydrogen Technologies for Energy Production", Moscow, Russia	6-10 February 2006
6	Storage of Hydrogen in Carbon Nanotubes	International Workshop on Hydrogen Energy Production, Storage and Application, Jaipur, Rajasthan	6 - 9 November 2006
7	Nanotechnology and Characterization of Nanomaterials	Advanced Research Series (Have been a part of the editing team)	MacMillan Publications Jan 2008
8	Biometrics- A case Study	National Conference on "Biometrics, RFID and Emerging Technologies for Automatic Identification", at VPM's Polytechnic, Thane	10 th Jan 2009
9	Using Aqueous foams for synthesis of CdS nanoclusters	Thinkquest-2009 A paper presentation Competition organized by BGIT in association with Siemens and PCS Technology	14 th Mar 2009 Won III prize
10	Synthesis of CdS Nanocrystals in Organic phase and effect of doping with Manganese and Yttrium	Indo US workshop on Nanosonics and Ultrasonics(IUWONU 2011) and International conference on nanotechnology and ultrasound(ICNU-2011)	12 th -14 th Jan 2011
11	Synthesis of CdS and CdMnS Nanocrystals in Organic Phase. (Peer reviewed post conference.)	International Conference on " Synthesis, Characterization,, Consolidation and Modelling of Nanomaterials" at PSG college of Technology, Coimbatore	5 th and 6 th Mar 2010
12	Commercialize Innovative projects	National conference on " Progress and prosper through Entrepreneurs and Intrapreneurs" at VPM's polytechnic, Thane	15 th Oct 2011
13	Luminescence Properties of Semiconductor Nanocrystals Synthesized in Organic Phase (Archived in SEEK digital Library)	"International Journal of Computer Science and its Applications - IJCSIA" having ISSN No.- "ISSN 2250-3765".(Volume 2 Issue 3) Presented the paper in the "International conference in advances in electrical, electronic and computer Engineering"	Uttarakhand Technical University, Dehradun 7 th -9 th Jul 2012

	Title of Paper	Name of Seminar	Year
14	Hydrogen – A Promising Renewable Fuel	Akshay Urja- Iris publications (MNRE)	April 2012 issue
15	Research and Development in India- Need for Innovation	42 nd ISTE National Convention, Hyderabad	20 th -22 nd Dec 2012
16	Hybrid Solar Photovoltaic System	Emerging Trends in Solar Technology ISBN 978-93-81583-75-3 (Have been a part of the editing team)	Excellent Publishing Home, New Delhi.
17	Battery Energy Storage	Akshay Urja- Iris publications (MNRE)	Dec 2012 Vol 6, Issue 3
18	Entrepreneurial Research	Rise above and beyond excellence, Dr BRIMS, Thane	4 th & 5 th Oct 2013
19	Innovation in Technical Education through research based entrepreneurship	43 rd ISTE national convention , TKIET, Warananagar, Maharashtra	19 th -21 st Dec 2013
20	Future of Polytechnics	43 rd ISTE national convention , TKIET, Warananagar, Maharashtra	19 th -21 st Dec 2013
21	Luminescence of ZnS nanoparticles in organic phase and effect of doping	International Journal of Research in Advent Technologies	Vol 2, issue 2 pp 250- 252

Memberships of Professional Societies

1. Indian Society for Technical Education (**ISTE**)
2. Computer Society of India (**CSI**)

Awards

- Received the **ISTE U.P. Government National Award** for outstanding work done in a specified field related to engineering and technology for the year 2013 at the 43rd Annual convention at TKIET, warananagar
- Awarded 3rd prize in National level paper presentation competition – **Think Quest 2009** organised by BGIT, Mumbai for the paper “Using Aqueous foams for synthesis of CdS nanoclusters”
- Received the “**Vocational Service Excellence award** “for remarkable scholastic achievements and valuable contributions towards research and higher education in the field of nanotechnology in the year 2014 awarded by Rotary Club of Thane Skyline
- I have guided final year projects that has got recognition in various national & Regional forums

Date : 19th Dec 2019

Place : Thane

Dr. Usha Raghavan