

RESUME



Dr. M. THACHAYANI

PERSONAL DETAILS

Date of Birth: 12.06.1979

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EDUCATIONAL QUALIFICATION

Examinations/Degrees

Sl. No.	Examination/Degree	Board /Institution	Year of Passing	Percentage/ CGPA	Class
1	SSLC	Board of Secondary Education, Tamilnadu	1994	80.2	I
2	DECE	Board of Technical Education, Tamilnadu	1997	82.83	I(Honors)
3	B.Tech.	Pondicherry Engineering College	2000	71.88	I
4	M.Tech.	Pondicherry Engineering College	2002	8.2	I
5	Ph.D	Pondicherry University	2015	Research Area : Optical Networks	

Other Details

College Topper in DECE (Diploma in ECE, Womens' Polytechnic, Pondicherry)

GATE Score : 78.92 (GATE-2001)

PROFESSIONAL EXPERIENCE

Teaching Experience: 17 years

Sl. No.	Institute	Designation	From	To	Number of Years
1	S.A Engg. College, Poonamalle, Chennai	Lecturer	June 2002	December 2002	½
2	Sri Manakula Vinayagar Engg. College, Madagadipet, Pondicherry	Lecturer	December 2002	June 2005	2 ½
		Senior Lecturer	June 2005	June 2007	2
3	Pondicherry Engineering College, Pondicherry	Lecturer	June 2007	Till date	12

Subjects Taught:

- Signals and Systems
- Electronic Devices and Circuits
- Digital Electronics
- Linear and Digital IC design
- System design using ICs
- Microprocessors and Microcontrollers
- VLSI Design
- Embedded System Design
- Analog and Digital Communication Systems
- Microwave and Optical Communication
- Telecommunication Switching and Networks
- Advanced Fiber-Optic Communication
- Free-Space Optical Communication
- Broad-band Networks
- Embedded Systems
- Embedded Systems and RTOS
- Advanced Digital System Design Using CPLDs and FPGAs

Professional Bodies:

1. **IEEE** – Member (11 Years)
2. **Elsevier** - Advisory Panel Member (2018-2019)
3. **ISTE** – Life Member

COURSES ATTENDED

Sl. No.	Name of the Course/Seminar	Date	Venue
1.	'Engineering Teaching Methodology', course conducted by Technical Teacher Training Institute, Chennai	09/6/2003 to 14/06/2003	SMV Engg. College, Pondicherry
2.	AICTE-ISTE sponsored course on 'Recent trends in Digital Signal Processing'	17/05/2004 to 28/05/2004	SSN College of Engg., Kalavakkam
3.	AICTE sponsored National Seminar on 'Challenges to Develop Eco-friendly Environment in 21 st century'	21/06/2004	SMV Engg. College, Pondicherry
4.	National Seminar on 'Recent Trends and Developments in Communication Engineering'	10/07/2004	SMV Engg. College, Pondicherry
5.	National Seminar on 'Satellite Remote Sensing'	19/08/2005	SMV Engg. College, Pondicherry
6.	National Seminar on 'Smart Materials and Nano Technology'	1/10/2005	Mailam Engg. College
7.	AICTE sponsored SDP on 'Recent Trends in Parallel and Distributed Systems – Architectures, Operating Systems and Algorithms	16/11/2009 to 27/11/2009	Pondicherry Engineering College, Pondicherry
8.	Workshop on " Ultra Wideband Communication"	30/11/2009	Pondicherry Engineering College, Pondicherry
9.	Workshop on " Network Simulator NS-2"	14/12/2009	Pondicherry Engineering College, Pondicherry
10.	AICTE sponsored SDP on "Computational Intelligence to Power System Analysis, Control & Optimization (CIPACO – 2011)"	6/6/11 to 10/6/11	Pondicherry Engineering College, Pondicherry
11.	TEQIP sponsored FDP on "Recent Advances in Green Engineering"	3/10/12 17/10/12	Pondicherry Engineering College, Pondicherry
12.	AICTE sponsored SDP on "Recent Advances in Nano Technology and its Applications – (RAINTA – 2011)	19/10/11 to 2/11/11	Pondicherry Engineering College, Pondicherry

13.	TEQIP sponsored FDP on "Recent Advances in Measurement and Automation"	10/12/12 to 14/12/12	Pondicherry Engineering College, Pondicherry
14.	Teqip sponsored STP on "Recent Trends in Optimization Techniques and Applications"	4/1/16 to 9/1/16	Pondicherry Engineering College, Pondicherry
15.	Puducherry e-Governance Society sponsored "VLSI Design using NI Hardware and Software"	22/9/15 to 1/10/15	By ICT Training Academy, At Pondicherry Engineering College
16.	2-days Hands on Workshop on "TMS320C6745 Digital Signal Processor"	27/4/15 & 28/4/15	By Pantech Solutions, At Pondicherry Engineering College
17.	RUSA sponsored Workshop on "Academic Leadership Programme (Counselling)"	21/09/15	Pondicherry Engineering College, Pondicherry
18.	RUSA sponsored Workshop on "PEOs and POs"	20/8/15 & 18/12/15	Pondicherry Engineering College, Pondicherry
19.	AICTE sponsored one week short term course on "Recent Trends and Developments in Broadband Technologies"	7/11/16 to 11/12/16	Department of ECE, Pondicherry Engineering College
20.	TEQIP Workshop on Nano sensors: Design, principles and applications	3/12/16 to 7/12/16	Organized by Indian Institute of Technology Hyderabad
21.	QIP sponsored one week short term course on "Enabling Technologies to aid Smart City Framework"	6/2/17 to 10/2/17	Department of ECE & CSE, Pondicherry Engineering College
22.	NPTEL online course 'Social Networks' (AICTE recognized FDP) – 12 Weeks	July-Oct. 2018	NPTEL-AICTE
23.	NPTEL online course 'Design of Photovoltaic Systems' (AICTE recognized FDP) – 12 Weeks	July-Oct. 2018	NPTEL-AICTE

COURSE ORGANIZED

Sl. No.	Name of the Course	Date	Venue	Position held
1.	AICTE sponsored STC on “Recent Trends in Development of Communication: Cognitive Networks”	30/11/15 to 04/12/2015	Dept. of ECE, Pondicherry Engineering College, Pondicherry	Coordinator and Resource Person
2.	Three-day Hands-on Workshop on ‘Hard and Softcore Processor Based Embedded System Design’	13/12/17 to 15/12/17	Dept. of ECE, Pondicherry Engineering College, Pondicherry	Coordinator and Resource Person
3.	Three-day Hands-on Workshop on ‘Embedded System Design for IoT’	9/2/18 to 11/2/18	Dept. of ECE, Pondicherry Engineering College, Pondicherry	Coordinator and Resource Person
4.	National Level Two-day Workshop cum Competition, “IoT Challenge 2018” conducted by i3indya Technologies and Radiance’18 IIT Bombay	10/3/18 and 11/3/18	Pondicherry Engineering College, Pondicherry	Coordinator

LECTURES DELIVERED

Sl. No.	Institute/Organization Visited	Topic of the Lecture	Event	Date of visit
1.	Adhiparasakthi Engineering College, Melmaruvathur, TN, India	DSP in Optical Communication	AICTE-SDP on 'Application of Digital Filters in DSP Problems'	10/5/12
2.	Dhanalakshmi Srinivasan Institute of Technology, Samayapuram, Trichy, TN, India	Wave shaping and Multivibrator Circuits	Guest Lecture	19/2/14

3.	Dhanalakshmi Srinivasan College of Engineering and Technology, Chennai	Communication Theory – Practical Perspective	Guest Lecture	12/3/19
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PAPERS PUBLISHED

Conferences

1. "A Wavelet based Denoising approach to Speech Enhancement using Threshold Adaptation", *ISTE 7th Annual Convention of Tamilnadu and Pondicherry chapter*, November 26-27, 2004.
2. "A Novel Load Sharing Alternate Routing Strategy For OBS Networks Based On Static Information", *International Conference on Fiber Optics and Photonics – PHOTONICS 2008*, Dec. 13 – 17, 2008.
3. "Path differentiated QoS provisioning scheme for OBS networks", *Proc. of IEEE sponsored Int. Conf. ICCCNT 10*, India, July 2010, pp. 1 - 4, DOI:10.1109/ICCCNT.2010.5591685.
4. "WDMA protocol for OBS ring metro network with distributed queuing", *Proc. of IEEE sponsored Int. Conf. PACC 2011*, pp. 1- 4, July 2011, DOI:10.1109/PACC.2011.5978897.
5. "Effect of buffer size on the performance of DQOBSR protocol", *Proc. of IEEE sponsored Int. Conf., ICCSP 13*, April 2013, pp. 636-638, DOI: 10.1109/iccsp.2013.6577132.
6. "Interference Mitigation Scheme to Support WBANs Co-Existing with WLANs," *IEEE Sponsored International Conference on Communication and Signal Processing (ICCSP)*, Chennai, India, April 2019.
7. "Design of a Compact MIMO Antenna for LTE Application", *IEEE Int. Conference on Systems, Computation, Automation and Networking(ICSCAN)*, Puducherry, March 2019.

Journals

National

1. Generic Model and Analysis of Asymmetric Spanke Switch Configuration, *Journal of Institution of Electronics and Telecommunication Engineers*, July – August 2003.

International Journals

1. “QoS Provisioning Through Class-based Route Selection For OBS Networks”, *International Journal of Electronics and Communication Engineering*, ISSN 0974-2166, Vol. 3, Number 1, 2010, pp. 209-219, International Research Publication House.
2. “Deflection Routing in OBS networks”, *International Journal of Computer Applications and Technology*, ISSN 2319-8656, Vol. 2, Number 3, May-June 2013, pp. 340-344.
3. “Distributed Queue Optical Burst Switched Ring – A MAC Protocol with zero blocking for OBS Ring Networks”, *Elsevier OPTIK-International Journal for Light and Electron Optics*, ISSN 0030-4026, Vol. 124, Number 23, pp. 5885-6484, 2013.
4. “DQOBSR Protocol with QoS Provisioning for OBS Metro Rings”, *Journal of Photonics*, Hindawi Publishing Corporation, Vol. 2013, ISSN: 2314-6451(Online), 5 pages.
5. “Combined probabilistic deflection and retransmission scheme for loss minimization in OBS networks”, *Elsevier Optical Switching and Networking*, Vol. 18, Issue 1, November 2015, pp. 51–58.