




**JSS Mahavidyapeetha**  
**JSS Academy of Technical Education, Noida**  
**Department of Electronics & Communication Engineering.**



**FACULTY PROFILE**

**1. Personal Details**

NAME	Dr. CHHAYA DALELA	
DEPARTMENT	ELECTRONICS & COMMUNICATION ENGINEERING	
DESIGNATION	ASSOCIATE PROFESSOR	
PHONE	9873552765	
EMAIL ID	chhayadalela@jssaten.ac.in	
Date of Joining (JSSATEN)	26-2-2001	

**2. Experience**

Total Experience in Years: 26 years	Teaching: 22 years	Industry: 3 years	Research: 13 years
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**3. Qualifications**

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B. Tech.	Electronics & Communication Engineering	1995	H.B.T.I., Kanpur	H.B.T.I., Kanpur
M. Tech.	Digital Communication	2006	AKTU, Lucknow	AKTU, Lucknow
Ph.D.	Channel characterization & Modeling	2012	-	Singhania University, Rajasthan
Post Doc.	-	-	-	-

**4. Research & Publications**

Papers Published in Web of Science indexed Journals	International: 04	National: 00
Papers Published in SCOPUS indexed Journals	International: 04	National: 00
Papers Published in	International: 07	National: 00

other Journals		
Papers Presented in Conferences / Symposium	International: 19	National: 07
Books / Book chapters Published	Name of the book: Radio Channel Measurements and Modeling over India Publisher: LAP Lambert Academic Publishing, Germany Year of Publication: 2012	

## 5. Research Guidance

PhD Guide, Give field & University	Yes, Microwave antenna	AKTU Lucknow
PhDs Guided	Ph.D. Awarded: NIL Guiding: 02	Projects at Master's Level: 10 Projects at Bachelor's Level: 60

## 6. Grants

### i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
A Mission Critical Protocol for Pipeline Leakage Detection Using Wireless Sensor Networks	3 lacs	June'2019	1 year	CRIP Scheme, AKTU, Lucknow

### ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1.	WSN AND INTERNET-OF-THINGS (IOT) ENABLED PIPELINE LEAKAGE DETECTION SYSTEM AND METHOD	202011035583 , Filed

### iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
-	-	-	-	-

## 7. Awards Received

<b>Awards “Best Paper Award”</b>	<ol style="list-style-type: none"> <li><b>Best Paper Award: Chhaya Dalela, M. V. S. N. Prasad, “A Preliminary Analysis of WiMAX Radio Measurements at 2.3 GHz over Western India,” International Conference on Microwave, Antenna &amp; Remote Sensing, ICMARS-2010, Dec.’ 2010, Jodhpur, India.</b></li> <li>Felicitated at AKTU, Lucknow on Founder’s day 26<sup>th</sup> July, 2019 to appreciate as faculty member for development and progress of University.</li> </ol>
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## 8. Publications

### i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Analysis of WiMAX Radio Measurements and Comparison with Some Models over Dense Urban Western India at 2.3 GHz	<b>Chhaya Dalela</b> , MVS N Prasad, P K Dalela	IEEE Antenna and Wireless Propagation Letters	vol. 10, pp.730-733	<b>WOS</b>	<b>1.32</b>	<b>IEEE</b>
2	Some Experimental Investigations in the WiMAX Band and Comparison of Propagation Models in Mixed Urban Environments of Western India	<b>Chhaya Dalela,</b> MV N Prasad, P K Dalela	Annals of Telecommunication	DOI 10.1007/s12243-012-0298-7, pp. 1-9	<b>WOS</b>	<b>2.42</b>	SPRINGER
3	Analysis and design of inclined fractal defected ground-based circularly polarized	Chhaya Dalela, Sonal Gupta, Binod Kanaujia	International Journal of Microwave and Wireless Technologies	August’2020.	WoS, SCIE		CAMBRIDGE UNIVERSITY PRESS, England,

	antenna for CA-band applications						
4	Design of circularly polarized antenna using inclined fractal defected ground structure for S-band applications,	Chhaya Dalela, Sonal Gupta, Binod Kanaujia	ELECTROMAGNETICS	vol 40, issue 7, pageno.52 6-540, September '2020	WoS, SCIE		TAYLOR & FRANCIS, USA
5	An Elliptical BandPass Three Dimensional Frequency Selective Surface with Multiple Transmission Zeros	Chhaya, Dalela, Bimal Dutta, Binod Kanaujia	journal Indonesian Journal of Electrical Engineering and Computer Science,	Scopus	Vol. 12, No. 3, Sept, 2018.	<b>1.21</b>	
6	Three dimensional frequency selection surface with Band Reject modifies transmission zero & pseudo elliptic response”,	Chhaya, Dalela, Bimal Dutta, Binod Kanaujia	Bulletin of Electrical Engineering & Informatics.	Scopus	vol. 8, No 3, September 2019	<b>0.98</b>	
7	OFDM based QOS and Capacity Enhancement for Mobile Networks	<b>Chhaya Dalela</b> and Dinesh Chandra, ,	Asian Journal of Physics	-	vol. 17, no.2, pp. 285-288, 2008.	<b>0.74</b>	
8	Radio Measurements in the WiMAX Band of 2.3	<b>Chhaya Dalela,</b>	International Journal of Engineering and Advanced Technology	-	Volume-1, Issue-5, pp. 280-285 June'	<b>1.0</b>	

	GHz, in Coastal zone for different transmitting antenna heights,”		(IJEAT), ISSN: 2249 – 8958,		2012.		
9	Propagation Path Loss Modeling for Deployed WiMAX Network	<b>Chhaya Dalela</b>	International Journal of Emerging Technology and Advanced Engineering (IJETA), ISSN 2250-2459,	-	Volume 2, Issue 8, August’ 2012	<b>1.0</b>	
10	Prediction Methods for Long Term Evolution (LTE) Advanced Network at 2.4 GHz, 2.6 GHz and 3.5 GHz	<b>Chhaya Dalela,</b> MVS N Prasad	International Journal of Computer Applications	-	New York, USA, November 2012.	<b>1.0</b>	Published by Foundation of Computer Science,
11	Tuning Of COST-231 Hata Model For Radio Wave Propagation Predictions	Dalela C.,M V S N Prasad, P K Dalela,	Computer Science and Information Technology (CS & IT),	-	Vol 5, pp. 255–267, 2012. DOI : 10.5121/csit.2012.2227 ,	<b>1.0</b>	-
12	Comparative Study of Radio Channel Propagation and Modeling for 4G Wireless Systems	Chhaya Dalela, MVS N Prasad	International Journal of Engineering and Advanced Technology (IJEAT),	-	Volume-2, Issue 5, pp. 296-299, June’2013.	<b>1.0</b>	-
13	Numerical Analysis of Near Field Distribution Variation at 2300 MHz	Chhaya Dalela etal	International Journal of Next generation and Network (IJNGN)		June 2014	<b>1.0</b>	

14	A Survey of Routing Protocols for MANETs	Chhaya Dalela, Sparshi Jain, Swati Ghansela, Aakriti Kumari	Journal of Optical Communication,	-	vol.2, No. 3, November, 2016.	1.0	-
15	Experimental Analysis of Cellular Outdoor Propagation at 1800 MHz over Dense Urban Regions of Ghaziabad.	Chhaya Dalela et al.,	International Journal of Engineering and Technology (IJET),	Scopus	Vol 8 No 1 Feb-Mar 2016, pg no. 396.	1.72	-

## ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
-	-	-	-	-	-	-	-

## iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Experimental Investigation at 2300MHz With AWAS Electromagnetic Code	Chhaya Dalela et al.,	IEEE, ICPEICES 2016, 4-6	2016	WoS	-	IEEE
2	Analysis of Near Field Distribution Variation using AWAS Electromagnetic Code for WiMAX	Chhaya Dalela et al.,	Third international Conference of Networks and Communications (NECO 2014),	2014	-	-	-
3	Path Loss Analysis using	Chhaya Dalela, Rahul	International Conference on	2014	-	-	-

	AWAS Electromagnetic Code for WiMAX at 2300 MHz	Namawat,	Engineering and Technology (ICEAT 2014				
4	Tuning of COST-231 Hata Model for Radio Wave Propagation predictions	<b>Chhaya Dalela,</b> M.V.S.N. Prasad,	Second International Conference in Computer Science Engineering and Applications,	2012	-	-	-
5	Validation of Tuned COST- 231 Hata Model Using Some Urban Base Stations Data in Western India	<b>Chhaya Dalela,</b> M. V. S. N. Prasad	International Conference on Eletromagnetics in Advanced Applications, ICEEA-IEEE APWC, September'2011, Torino, Italy.	2011	<b>WoS</b>	-	<b>IEEE</b>
6	Influence of Urban Coastal Region on WiMAX Propagation at 2.3 GHz	<b>Chhaya Dalela,</b> M.V.S.N.Prasad	Third International Conference on Wireless and Mobile Networks, WiMON- 2011	2011	<b>SCOPUS</b>		<b>SPRINGER</b>
7	WiMAX Based Path loss measurements at 2.3GHz in Urban and Coastal Environments	<b>Chhaya Dalela,</b> M. V. S. N. Prasad	International Conference in Future Trends in Communication Technologies	2011	-	-	-
8	A Preliminary Analysis of WiMAX Radio Measurements at 2.3 GHz over Western India	<b>Chhaya Dalela,</b> M. V. S. N. Prasad	International Conference on Microwave, Antenna & Remote Sensing, ICMARS- 2010	2010	-	-	-
9	Performance Comparison of Different Equalization Techniques using MATLAB based	<b>Chhaya Dalela,</b> <i>etal.</i>	Second International Conference on Innovative Practices in Management and Information Technology for	2010	-	-	-

	simulations for Mobile Communications Second International Conference on Innovative Practices in Management and Information Technology for Excellence , Srijan'10 , Jagadhari, India , 2010.		Excellence , Srijan'10				
10	NB-IoT Next Generation Wireless Evolution	Chhaya Dalela	IEEE Conference September'2018, ICNTET 2018,	2018	WoS	-	IEEE
11	Performance evaluation of optical networks using OPTISIM Software	Chhaya Dalela,	IEEE Conference, October'2018, Galgotia University, Greater Noida.	2018	WOS	-	IEEE
12	Disease Detection with the help of Modified Clinical Decision Support System (CDSS)	Chhaya Dalela	IEEE Conference, International Conference on Startup ventures: Technology Developments and Future Strategies (SV-TDFS) 2018, October, MIT Jaipur.	2018	WOS	-	IEEE
13	AGROCOPTER for Precise Agriculture	Chhaya dalela, Devang Srivastava, Aviral	ICCSEMS2020, JSSATE, Noida, Sept'20	2020	-	-	-
14	A concise Review on Surveillance System Using Arduino, Ultrasonic Sensor and GSM	Chhaya Dalela, Nancy Gupata,	ICCSEMS2020, JSSATE, Noida, Sept'20	2020	-	-	-
15	Intelligent Gate	Chhaya Dalela,	ICCSEMS2020,	2020	-	-	-



		Nainika, Saurabh,	JSSATE, Noida, Sept'20				
16	Propagation Path Loss Modeling for Wireless Applications at 2300 MHz”,	<b>Chhaya Dalela,</b> M.V.S.N. Prasad	National Conference on Various Aspects of Radio & Atmospheric Science-2012,.	2012	-	-	-
17	Prediction Methods for Long Term Evolution (LTE) Advanced Network at 2.4 GHz, 2.6 GHz and 3.5 GHz	<b>Chhaya Dalela</b>	CTNGC 2012, National Conference on Communication Technologies & its impact on Next Generation Computing, Oct 2012, Ghaziabad, India.	2012	-	-	-
18	WiMAX Radio Measurements and Comparison of Propagation Models in Mixed Urban Environments of Western India at 2.3 GHz	<b>Chhaya Dalela,</b> M. V. S. N. Prasad	ICEIT National Conference on Advances in Wireless Cellular Telecommunications	2011	-	-	-
19	Development of MATLAB based simulations for modeling radio wave propagation for mobile communication application	<b>Chhaya Dalela,</b> M. V. S. N. Prasad	Radio and Environmental Science Conference 2009, Apr 2009, New Delhi, India.	2009	-	-	-
20	Optimized Handoff Algorithm for Mobile Networks at Peak Traffic Hours in Metros,”	<b>Chhaya Dalela</b> etal.	National Conference in Emerging Trends in Wireless Technologies, IETE, Chandigarh, India, 2005.	2005	-	-	-
21	Server based approach to Improve QOS for cellular	<b>Chhaya Dalela,</b> M. V. S. N. Prasad	INCURSI-07, 2007, New Delhi, India	2007	-	-	-

	Mobile Communication						
22	Optimized Handoff Algorithm for Mobile Networks at Peak Traffic Hours in Metros	<b>Chhaya Dalela</b> etal.	National Conference in Emerging Trends in Wireless Technologies, IETE, Chandigarh, India, 2005.	2005	-	-	-

#### iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	“Three day workshop on Soft Computing”,	JSSATE, Noida	13 Nov – 16 Nov 2015.
2	One week short term course on “ Instructional Delivery”	NITTTR, Chandigarh	11-15 <sup>th</sup> May’2015.
3	One day Seminar organized by National Instruments on “AWAS”	National Instruments	August 2017
4	<b>One week short term course on “ VLSI Design”</b>	<b>NITTTR, Chandigarh</b>	<b>5<sup>th</sup> -9<sup>th</sup> October’2015</b>
5	<b>One week FDP “ Next Generation wireless System and Standards”</b>	AKTU, lucknow	<b>Feb28th to 5<sup>th</sup> march 2016</b>
6	one week TEQIP-III Sponsored FDP on “ <b>Industrial Instrumentation with Robotics and 3D Printer</b> ”	AKTU, lucknow	JUNE 2018
7	One week FDP on “ <b>MATLAB and LabVIEW with its Hardware Interface</b> ”	NITTTR, Chandigarh.	29 <sup>th</sup> January to 2 <sup>nd</sup> February, 2018
8	One week workshop on “ Holistic Professional Development”	Symbiosis, Noida	27 May- 3 June 2019.
9	Four Days Management Development Programme	IIM Lucknow	16 May – 21 May2020.

#### v. Workshops / Conference (Organized)

Sl.	Name of the workshop / Conference	Organized by	Date	Role
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No.				
1	Industrial Instrumentation with Robotics and 3D Printer”	one week TEQIP-III Sponsored FDP, approved from AKTU	June 2018	Coordinator
2	One week FDP on “VLSI Design”	NITTTR, Chandigarh	5 <sup>th</sup> -9 <sup>th</sup> October’2015.	Organizing Committee member
3	One week FDP “ Next Generation wireless System and Standards” Feb28th to 5 <sup>th</sup> march 2016	one week TEQIP-III Sponsored FDP, approved from AKTU	Feb28th to 5 <sup>th</sup> march 2016	Deputy Coordinator
4	One week FDP on “MATLAB and LabVIEW with its Hardware Interface" through ICT based STC from 29 <sup>th</sup> January to 2 <sup>nd</sup> February, 2018 Organized by NITTTR, Chandigarh.	NITTTR, Chandigarh	29 <sup>th</sup> January to 2 <sup>nd</sup> February, 2018	Coordinator
5	SIH 2020, SIH 2021	MHRD	2020,2021	Registration Committee head
6	Spoken Tutorial for Two Week online Faculty Development Program on <b>PYTHON</b>	Department of Electronics and Communication Engineering, JSS Academy of Technical Education, Noida and Spoken Tutorial Project IIT Bombay funded by National Mission on Education through ICT, MHRD, Govt of India.	15 days from 1-16 june 2020	

**vi. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)**

Sl. No.	Name of the workshop / Conference	Organizer	Date
-	-	-	-

**9. Details of NPTEL / COURSERA courses completed**

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1.	Machine Learning	IIT, Madras	June 2020	7.5

**10. Membership of Professional Bodies:**

1. IEEE Membership : 96199712
2. IETE Life time Membership- AM119748L
3. IAENG(International Association of Engineers) Membership : 246300

**11. Any other information you will like to share about your professional experience**

**Details of Academic e-Contents prepared**

Available @

<https://www.youtube.com/watch?v=O7fqZ0MiuGg&feature=youtu.be>

- Appointed as Ph.D. supervisor in UPTU, Lucknow.
- Session chair for two days AICTE sponsored 2nd International Conference on “Communications and Electronics “, ICCE 2013, organized by the Department of Electronics and Communication Engineering, KIET, Ghaziabad, on 28th-29th November, 2013
- Session chair for Third international Conference of Networks and Communications (NECO 2014),New Delhi on 24-25 May 2014.
- Session chair /speaker at ITS, Engineering college, Noida
- Speaker at **Track 904: Advanced Materials for Information and Communication Technology** IN BIT’s 6th Annual World Congress of Advanced Materials (WCAM-2017), held on June 14-16, 2017 (ONLINE) , in Xi’an, China with theme of “Innovation Opens a New Future”.
- Reviewer for IEEE Antenna and Propagation letters and other reputed national and international journals

- TPC Member of 2nd International Conference on Telecommunication and Networks  
TEL-NET 2017, August 10-11,2017, Amity University Uttar Pradesh, Noida, India.