



FACULTY - PROFILE

DR RAKESH KUMAR MAURYA

Professor

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Title Dr. First na	me RAKESH KUMAR	Last Name	MAURYA	
Designation	Professor	Professor		
Department	Electronics and Inst	Electronics and Instrumentation Engineering		
Address: (Campus)	University, Bareilly			
(Residence):	105/8 B Umang-1 Ma UP-243006	105/8 B Umang-1 Mahanagar Colony, Bareilly UP-243006		
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Email ID	Personal	rkm96ei42@g	gmail.com	
	University Domain	rakesh_maury	a@mjpru.ac.i	n
Professional	www.linkedin.com/in/dr-rakesh-kumar-maurya			urya
Networking ID, i.e.	https://scholar.google.com/citations?user=7Bi5Ms4AAAAJ&hl=en			
Linkedin, Twitter etc.				
Education				

Education:

Degree	Institution	Year	Details
B.Tech.	FET, MJP, Rohilkhand	2000	Electronics and Instrumentation Engineering
	University, Bareilly, (U.P.)		
M.E.	NITTTR Chandigarh,	2009	Instrumentation and Control Engineering
	(U.T.)		
Ph.D.	U.K Technical University,	2017	ANFIS Model for Design & Analysis of
	Dehradun, (U.K)		Microstrip Patch Antenna

Career Profile:

Organization / Institution	Designation	Duration	Nature of Duties
IET, VBS Purvanchal University,	Lecturer (Guest	Sep-2000 to Nov-	Research and Academic
Jaunpur (U.P.)	Faculty)	2002	
MJP, Rohilkhand University,	Asst. Professor	Nov-2002 to Sep-	Research and Academic
Bareilly (U.P.)		2017	
MJP, Rohilkhand University,	Assoc. Professor	Sept-2017 to Sep-	Research and Academic
Bareilly (U.P.)		2020	
MJP, Rohilkhand University,	Professor	Sept-2020Cont	Research and Academic
Bareilly (U.P.)			

Research Interests / Specialization

- (i) Design, Analysis and Fabrication of Microstrip Antennas
- (ii) Soft Computing Optimization Techniques: Artificial Neural Network, Adaptive Neuro-Fuzzy Inference System, Support Vector Machine etc.
- (iii) Microprocessor and Embedded System
- (iv) IoT, Python etc

Research/Research Experience in Years:



Teaching Experience (Subjects/Courses Taught)

More than 21 Year:

- * Microprocessor and its Application
- * Microcontroller and Embedded System
- * Soft Computing Techniques
- * Basic Electronics
- * Digital Electronics

Publications / Academic Activities (Numbers Only)

Books & Monographs	3	Research Papers Published in Internatio nal Journals	18	Papers Presented in Seminars/ Conferences	17	Seminars/ Conferences Organized	02	Research Projects (Completed)	2
Books (Co-authored)	1	Research Papers Published in Other Journals	04	Seminar/ Conferences Attended	08	Workshops Organized	02	Research Projects (Ongoing)	1
Books (Edited)		-		Sessions Chaired in Seminars/	02				
				Conferences					
Chapters in Edited Books	0	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspap ers, Magazine s etc.		Resource Lectures Delivered	04	Membership of Academic/ Professional Bodies	5	Foreign Countries Visited for Academic Assignment	







Details of Publications / Academic Activities (2010 Onwards)

(a) Books/Monographs

Year of Publication	Title	Publisher	ISBN	Author/Co- Author
2017	Fundamentals of Microprocessor, Interfacing and Applications	LuLu Publication 3101 Hillsborough St, Raleigh, NC 27607, US	978-1-387- 53969-7	Rakesh Kumar Maurya
2019	Fundamentals of Soft Computing Techniques and Applications	Kindle Direct Publishing 410 Terry Ave N Seattle Washigton 98109	979-8-492- 53637-4	Dr. Rakesh Kumar Maurya
2022	Deep Learning with Python	Haiyagrev Publications 189, Sivachitra Apartment Bhawani, Erode- 638301	978-81- 955121-1-9	Prof. S Venkatasur, Dr K. Vimla Devi, Dr. Jose Anand, Dr. Rakesh Kumar Maurya

(b) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals

Year of Publicati on	Title	Name of Journal	ISSN /Indexing
2013	ANFIS Model for CAD Application of Annular Ring Microstrip Antenna with Circular Polarization, vol. 04, 2013, pp. 65-68.	International Journal of Science Technology & Management	ISSN (Print) 2394-1529 (Online) 2394-1537
2013	ANN Model of Triple-Frequency Triangular Ring MPA with Defected Ground Structure, vol. 03, 2013, pp. 59-62.	International Journal of Science Technology & Management	ISSN (Print) 2394-1529 (Online) 2394-1537
2014	Comparative Analysis of PI, PID and Fuzzy Logic Controller for Speed Control of DC Motor. vol.3, pp. 1319-1324	International Journal of Engineering Research & Technology	ISSN:2278-0181
2014	Artificial Neural Network Model for Analysis Of Elliptical Microstrip Patch Antenna, vol.6, pp. 459-463.	International Journal of Research in Engineering & Technology	ISSN:2321-8843
2014	Optimization and Designing of PID, Fuzzy and PID-Fuzzy Controller, vol.5, pp. 2040-2048	International Journal of Scientific and Research	ISSN: 2229-5518
2015	An ANN-Based Model and	International Journal of	ISSN:2394-3386







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	Design of Single-Feed Cross-Slot	Engineering Technology	
	Loaded Compact Circularly	Science and Research	
	Polarized Microstrip Antenna for	(IJETSR)	
	Indoor WLAN Applications		
	Vol. 2, Special Issue, pp. 111-		
	119		
	An ANN-based synthesis model	IJCTA, International	ISSN:1751-8644
2016	of wide-band microstrip line-fed	Science Press	
2010	antenna with defected ground		
	structure. Vol. 9, pp. 289-295		70077 4004 7004
	An ANN-based model and	IPASJ, international	ISSN:2321-5984
2016	design of single-feed cross-slot	journals of electronics &	
2016	loaded compact circularly	communication (IIJEC).	
	polarized microstrip antenna Vol.		
	4, pp. 1-7, 2016. Android Based Home		ICCNI, 2220, 2002
	Android Based Home Automation		ISSN: 2320-2882
	System Using Bluetooth and	International Journal of	
2018	Voice Voice	Creative Research	
	Command, vol. 6,issue 2, pp.	Thoughts - IJCRT	
	1220-1222		
	Image De-Blurring using Blind	International Journal for	ISSN: 2321-9653
2018	De-convolution	Research in Applied	
2016	Technique Volume 6 Issue IV,	Science & Engineering	
	pp. 3952-3956	Technology (IJRASET)	
	Zigbee Based Automatic Street	International Journal of	ISSN: 2320-2882
2018	Light	Creative Research	
	System	Thoughts - IJCRT	
	Vol. 6,Issue 2, pp. 1319-1324	MOTI WHEN	ICCN 1000 2770
	Circularly polarized hexagonal	MOTL, WILEY	ISSN:1098-2760
2019	ring microstrip patch antenna with asymmetrical feed and	Interscience	https://doi.org/10.100 2/mop.32220
	DGS. Vol. 62, Issue 4, pp. 1702-		2/1110p.32220
	1708		
	An ANN Model of Miniaturized	International Journal of	ISSN: 2005-4238
2020	Multi-Band-Pass Filter Vol. 29,	Advanced Science and	1551 (1 2000 1 1 200
	No.7,pp. 10245-10250	Technology,	
	Constraint length inflation in	Indonesian Journal of	ISSN: 2502-4752,
	fixed high rate convolutional	Electrical Engineering	·
2020	codes and their impact on	and Computer Science	DOI:
	performance of O-IDMA Vol.		10.11591/ijeecs.v20.i
	20, No.2, pp. 837~844		2
	A Simplified Approach for the	International Journal of	ISSN: 2005-4238
	betterment of Linearity in a 10	Advanced Science and	
2020	bits Segmented Current Steering	Technology,	
	DAC, Vol. 29, No.7, pp. 10223-		
	10232.		70077 4005 1555
	Contrastive Performance	International Journal of	ISSN: 2005-4238
2020	Analysis of US-OIDMA using	Advanced Science and	
	Different Code Rate and	Technology,	
	Constraint Length". Vol. 29,		



Mahatma Jyotiba Phule Rohilkhand University, Bareilly महात्मा ज्योतिबा फुले रूहेलखण्ड विश्वविद्यालय, बरेली A State University - Government of Uttar Pradesh; NAAC A++ Accredited; ISO 9001:2015 & 14001:2015 Certified





	No.8, pp. 4842-4852		
	Defected Ground Co-planer	IT in Industry	ISSN:2203-1731
2021	Multi-band-pass Microstrip	-	doi.org/10.17762/itii.
	Filter, vol. 9, no. 1, 64-68		<u>v9i1.102</u>

(c) Chapter/Paper Published (Proceedings

(c) Chapter/	Paper Published (I	roceedings)				
Publication National / Internationa	Title of the Book	Title of the Chapter	Name of Publisher	Year	ISBN	DOI
International	International Conference on Communication Systems and Network Technologies SMVD Univ. Katra Jammu	Fuzzy Inference system (FIS) for the Synthesis of Rectangular Microstrip Antenna with Thin and Thick substrates, 2011, pp. 253-257	IEEE Proceedin gs	2011	ISBN: 978- 1-4577- 0543-4	DOI: 1 0.1109 /CSNT .2011. 62
International	International Conference on Machine Intelligence and Research Advancement SMVD Univ. Katra Jammu	Model for Calculation of Patch Radius of Circular Microstrip Antennas Using Artificial Neural Network (ANN), 2013 pp. 167-173	IEEE Proceedin gs	2013	ISBN:978- 0-7695- 5013-8	DOI: 1 0.1109 /ICMI RA.20 13.39
International	International conference on Academic Research in Engg. Mgt. and Information Technology MJPRU, Bareilly	ANFIS Model of DGS Triangular Ring MPA for Multi Frequency Application, 2016 pp. 182-185	Proceedin g of 2 nd Int. Conf. ICAREMI T-2016	2016	ISBN: 978- 93-82972- 19-8	
International	International conference on Academic Research in Engg. Mgt. and Information Technology MJPRU, Bareilly	Hybrid Model for Design and Analysis of Conventional Microstrip Antenna,2016 pp. 175-181	Proceedin g of 2 nd Int. Conf. ICAREMI T-2016	2016	ISBN: 978- 93-82972- 19-8	
International	ANN and ANFIS Analysis Model for Physical Parameters of Circularly Polarized Annular Ring	ANN and ANFIS Analysis Model for Physical Parameters of Circularly Polarized Annular Ring Slot	Proceedin g of 11 th INDIACo m IEEE	2017	ISSN: 0973-93- 80544-24-3	







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	Slot Antenna with Truncated Corners 2017, pp. 7190-7196.	Antenna with Truncated Corners 2017, pp. 7190-7196.				
International	International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT - 2020)	CAD Applications of ANFIS Model for Annular Ring MPA, 2020, pp. 23-26.	Proceedin gs of ICAREMI T-2020 MJPRU, Bareilly	2020	ISBN 978-81- 933433-9-5	
International	International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT - 2020)	ANFIS Model of DGS Triangular Ring MPA for Multi frequency Application,2020, pp. 27-30	Proceedin gs of ICAREMI T-2020 MJPRU, Bareilly	2020	978-81- 933433-9-5	
International	International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT - 2020)	A miniaturized multi-band-pass filter using defected ground structure, 2020, pp. 31-33	Proceedin gs of ICAREMI T-2020 MJPRU, Bareilly	2020	ISBN 978-81- 933433-9-5	
International	International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT - 2020)	Smart grid in distributed system: a review, 2020, pp. 112-115	Proceedin gs of ICAREMI T-2020 MJPRU, Bareilly	2020	ISBN 978-81- 933433-9-5	







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International	International Conference on computational electronics for wireless communication (ICCWC-2021)	Design of DGS Compact UWB Antenna for C, X, Ku and Ka-Band Applications using ANN and ANFIS	Proceedin gs of ICCWC- 2021, Lecturer notes in network	2022	978-981- 16-6246- 1_1	DOI: 10.10 07/97 8- 981- 16- 6246-
	NIT-Kurukshetra	Optimization	ans systems			1_1
International	2021 IEEE Indian Conference on Antennas and Propagation (InCAP)	Design & Simulation of Low Profile Wide Band Circularly Polarized Patch Antenna	IEEE	2022	Electronic ISBN:978- 1-6654- 0110-4 Print on Demand(Po D) ISBN:978- 1-6654- 0111-1	DOI: 10.11 09/In CAP5 2216. 2021. 97261 85

(d) Seminars/Conferences/Workshops Organized

- **1-** One Week Workshop on 'Embedded IOT System Design Using MATLAB and Simulink' from 19 to 25 October 2019.
- **2-** One week workshop on 'Technological Tools and Their Management in Online Teaching' From 12 to 18 August 2020.

(e) Projects (With Title, Year, Grants, Funding Agency and Collaborations)								
			- ·		Duration			
Year	Name of Project		Funding Agency	Amount	From	Till		
2018	ANN and ANFIS modeling of Microstrip Patch Antenna		TEQIP-III, NPIU, MHRD, Govt. of India	2 Lakhs	2018	2020		
2019	Gas Evaluation Through Burning of Agricultural Waste and their Impact on Environment		TEQIP Collaborative Research Scheme, NPIU, GOI World bank Project	16 Lakhs 80 Thousand	2019	2021		
Administrative Positions/Assignments Held								
Post		Organization		Duration				
				From	То			
Assistant Dean Student Welfare		MJPRU, Bareilly		2014	Till now			
I/C Examination (FET)		FET, MJPRU, BAreilly		2020	Till now			
Member of Purchase committee		RUSA (EI Engineering)		2017	2018			
Assistant coordinator of		MJP Rohilkhand Univ.		2015	2019			
Central Evaluation Centre								
Student Advisor (EI Deptt.)		EI, Deptt. MJPRU, Bareilly		2008	2020			
BoS Convener (EI Deptt)		EI, D	eptt. MJPRU, Bareilly	2021	2023			



Seminar/Conference Presentations

- 1. Rakesh K. Maurya Binod Kumar Kannaujia, Ajay K. Maurya, Ravi Prakash, "Design of DGS Compact UWB Antenna for C, X, Ku and Ka-Band Applications using ANN and ANFIS Optimization Techniques". International Conference on computational electronics for wireless communication, NIT-Kurukshetra, (ICCWC-2021).
- 2. Rakesh Kumar Maurya, Anil Kumar Singh, Reena Pant and Ajay Kumar Maurya,"CAD application of ANFIS Model for Annular ring MPA" 5th International Conference on Academic Research in Engineering, Management and Information Technology (Icaremit 2020).
- 3. Rakesh Kumar Maurya, Anil Kumar Singh, Reena Pant, Ajay Yadav and Ravi P. Prajapati, "ANFIS Model of DGS Triangular Ring MPA5th International Conference on Academic Research in Engineering, Management and Information Technology (Icaremit 2020)
- **4.** Rakesh Kumar Maurya, B.K. Kanaujia, A.K. Gautam, S. Chatterji and A.K. Singh, "ANN and ANFIS model for optimization of physical parameter of annular ring slot antenna with truncated corners," IEEE Int. Conf. ID: 40353, proceedings of the 11 INDIACom-2017, BVICAM, New Delhi, pp. 7190-7195, 2017.
- R. K. Maurya, Binod K. Kanaujia, A. K. Singh and A. K. Gautam, "Rectangular Microstrip Antenna Symmetrically Loaded With IMPATT Diode," International Conference On Radio Science (ICRS-2008), International Centre For Radio Science, Jodhpur, February 2008, pp.112-115.
- **6.** Binod K. Kanaujia A. K. Singh, R. K. Maurya and Indera Preet Kaur, "Frequency Agile Annular Ring Microstrip Antenna Loaded With IMPATT Diode," International Conference on Wireless, Mobile and Multimedia Networks, IET, Bombay, January 2008.
- 7. Binod K. Kanaujia, A. K. Singh, R. K. Maurya and Siva Jiaswal, "Concentric Annular Ring Microstrip Antenna Array, "International Conference on Wireless, Mobile and Multimedia Networks, IET, Bombay, January 2008.
- **8.** A. K. Singh, Binod K. Kanaujia, R. K. Maurya and B. R. Vishvakarma, "Frequency Agile Microstrip Antenna," National Seminar ACST, SRMS-Bareilly, 15th April 2007, pp. 67-72.
- A. K. Singh, Binod K. Kanaujia and R. K. Maurya, "Frequency Agile Annular Ring Microstrip Antenna Symmetrically Loaded With MOS Capacitor," International Conference On Radio Science(ICRS-2008), International Centre For Radio Science, Jodhpur, February 2008.
- 10. R. K. Maurya, A. K. Singh, Binod K. Kanaujia, Brahm Deo Yadav and Ritu Rani, "Wireless Home Security & Teleguard System," International Conference on Wireless, Mobile and Multimedia Networks, IET, Bombay, January 2008.
- 11. Brahm Deo Yadav, A. K. Singh and R. K. Maurya., "Microcontroller based Position Indicator on Rail Track in Track Monitoring System," Challenges for Railway Transportation in Information Age, International Conference on Railway Engineering (ICRE-2008), Hong-Kong, China,





- 12. Brahm Deo Yadav, A. K. Singh, P. S. Shukla, R. K. Maurya and Ritu Rani, "A Microprocessor Based System for Instantaneous Display of Radiator and After Cooler Effectiveness of Rail Engine," Challenges for Railway Transportation in Information Age International Conference On Railway Engineering (ICRE-2008) Hong-Kong, China,
- **13.** R. K. Maurya, Ravi sanker, Abhishek, Fuzzy inference system for analysis of circular microstrip antenna, IEEE, Int., Conference. DOi 12.2022/ICMIRA, 2011
- **14.** R. K. Maurya, Vijay, S. Mishra, N. Chaudhary and D Kumar, Model for calculation of patch radius of circular microstrip antenna using artificial neural network, IEEE Int. Conf. DOI 10.1109/ICMIRA, 39(2013), 167-173.
- **15.** R. K. Maurya, Brahm Dev yadav, Mukesh Rai and, Rajeev Verma, "Expert/Home Security Wireless System," National Conference On "Recent Advances and Trends in Electrical Engineering (RATE)"NITTTR, Chandigarh, February 13-14,2008.
- **16.** R. K. Maurya, A.K.Singh, Mukesh Rai and Rajeev Verma, "Power Line Carrier Communication" National Conference On "Recent Advances and Trends in Electrical Engineering (RATE)"NITTTR, Chandigarh, February 13-14,2008.
- **17.** R. K. Maurya, A. K. Singh and Indera Preet Kaur, "Optimization Techniques for Maze Solving" National Conference on "Wireless Sensor Network" National Seminar ACST, SRMS-Bareilly, 5th April 2009.

Memberships of Academic/Professional Bodies

- **1-** Life time memberships of IETE, "The Institution of Electronics and Telecommunication Engineers" 2, Institutional Area, Lodi Road, New Delhi-110 003
- **2-** Life time memberships of ISTE, "Indian Society for Technical Education", IIT (D) Campus, Katwaria Sarai, Shaheed Bhagat Singh Marg, New Delhi-110016
- **3-** Life time member of The institution of engineers (India) an aiso 9001: 2015 certified organization 8, Gokhle road, Kolkata-700020

Prof. (Dr) Rakesh Kumar Maurya