




Faculty Profile on University Website

www.mjpru.ac.in

Title	Prof.	First Name	Shiv Kumar	Last Name	Tomar	Photograph
Designation		Professor				
Department		Electronics & Communication Engineering				
Address	Campus	M.J.P. Rohilkhand University, ECE Department Bareilly-243006				
	Residence	3/70, Suresh Sharma Nagar, Bareilly- 243006				
Mobile No.		8077877294, 9412345666				
Email ID		Personal		shivktomar@gmail.com		
		University Domain				
Professional Networking ID, i.e. Linkedin, Twitter etc.						
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
B.Sc. Engineering		AMU Aligarh		1983	Electrical Engineering with specialization in Electronics & Communication engineering	
M.Sc. Engineering		AMU Aligarh		1988	Electronics & Communication Engineering	
Ph.D.		IIT Roorkee		2010	Reduction Of Linear Dynamic Systems In Control Engineering Environment	
Career Profile						
Organization /Institution		Designation		Duration		Nature of Duties
NIT, Kurukshetra		Lecturer		25/03/1985 to 4/03/1991		Teaching
NIT, Kurukshetra		Senior Lecturer		25/3/1991 to 12/06/1996		Teaching
M.J.P.R.University Bareilly		Associate Professor		13/06/1996 to 12/11/2010		Teaching
M.J.P.R.University Bareilly		Professor		13/11/2010		till date

Research Interests / Specialization									
Control Engineering., digital signal processing, Digital Image Processing, optimization techniques using PSO and ANN etc									
Research Experience in Years: 16									
No. of Research Scholars Successfully Guided									
Name of Programme		Awarded			Under Supervision				
Ph.D.		02			-				
Researcher/ Expert ID	Scopus	Orchid		Publons		Vidwan		Google Scholar	
		0000-0003-0479-1850		D-2020-2013					
Teaching Experience (Subjects/Courses Taught)									
35 years, Signal and System, DSP, Digital Image Processing, Digital System Design, CCN, digital Electronics, circuit theory etc									
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	NIL	Research Papers Published in International Journals	5	Papers Presented in Seminars/ Conferences	40	Seminars/ Conference s Organized	2	Research Projects (Completed)	NIL
Books (Co-authored)	NIL	Research Papers Published in Other Journals	6	Seminar/ Conferences Attended	10	Workshops Organized	1	Research Projects (Ongoing)	NIL
Books (Edited)	NIL	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences	04	Membershi p of Academic/ Professiona l Bodies	2	Foreign Countries Visited for Academic Assignments	01
Chapters in Edited Books	02			Resource Lectures Delivered	05				

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

Sr. No.	Title with page Nos.	Details of Conference Publication	ISSN/IS BN No.	No.of co-authors
1	“Optimized Method of Power Control During Soft Handoff in Downlink Direction of WCDMA Systems”	Proc. Third IEEE Inter. Conf. on Parallel, Distri. and Grid Computing, December 11-13, 2014, Solan, India. (h-(index, median)=(9, 19). http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7030785&queryText=Parallel%2C+Distributed+And+Grid+Computing+.LB.PDGC.RB.%2C+2014+Internationa	doi: 10.1109/PDGC.2014.7030785	Shalini Agarwal, Shiv K Tomar, Alok Aggarwal,

		l+Conference+On&refinements[]=4230795276&refinements[]=4230682718&refinements[]=4230824562&refinements[]=4228407264&searchField=Search_All#)		
2	“Survey and Taxonomy of Soft Handoff in 3rd Generation CDMA based System,”	<i>World Conference on Advances in Communication and Control Systems CACCS-2013, April 6-8, 2013. [Scopus, DBLP], (h-(index, median)=(5, 9). (www.atlantis-press.com/php/download_paper.php?id=6395)</i>	ISBN 978-978677-66-6 ISSN 1951-6851	Aggarwal Shalini, Tomar S.K., and Aggarwal Alok
3	On Challenges and Opportunities in Second Wave of ICT Revolution for South Asian Countries	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012), December 6-8, 2012, Wagnaghat, Solan, India. (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449888&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449888)</i>	doi: 10.1109/PDGC.2012.6449888	Aggarwal, Shalini, Tomar, S., and Aggarwal, A.,
4	“Trends in Power Control During Soft Handoff in Downlink Direction of 3G WCDMA Cellular Networks”	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012), December 6-8, 2012, Wagnaghat, Solan, India. [Scopus] (h-(index, median)=(9, 19) (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449889&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449889)</i>	doi: 10.1109/PDGC.2012.6449889.	Shalini Aggarwal, Shiv K. Tomar, Alok Aggarwal, Sanjeev Sharma
5	“GFDM: A new waveform candidate for 5G”	All India seminar on MIT Moradabad on 20-21 April 2018. Electronics Design, Technologies & Applications (EDTA-2K18) under the aegis of Institution of Engineers (India)		Chhavi Sharma, Arvind Kumar, S.K Tomar International
6	“An Improved DSI-PTS for PAPR Reduction of OFDM System”	International Journal of Scientific & Engineering Research, Volume 7, Issue 8, August-2016	ISSN 2229-5518	Chhavi Sharma, A.K.Gupta, S.K Tomar International
7	“Application of Remote Sensing and Image Processing for Efficient Urban Planning: A Case Study of Indian City Bhopal”,	<i>International Journal of Advanced Research in Computer Science and Software Engineering</i> , vol. 5, issue 9, pp. 228-238, Sept-2015.		Sanjeev Sharma, Dr. S. K. Tomar, International
8	“Searching the Road Network In Rural India: A Prospective of Rural Development”	International Journal of Advance Research In Science And Engineering http://www.ijarse.com IJARSE, Vol. No.4, Special Issue (01), February 2015 http://www.ijarse.com/images/fullpdf/E079.pdf	ISSN-2319-8354(E)	Sanjeev Sharma, Dr. S. K. Tomar, Deepika Sharma International

9	“A New Wave Of Digital Technology-5g And Beyond”	<i>International Journal of Advance Research In Science And Engineering</i> , vol. 4, special issue 01, pp. 234-238, Feb-2015(http://www.arresearchpublication.com/images/shortpdf/E013.pdf)	ISSN-2321-2055 (E)	Chhavi Sharma , S.K. Tomar , Anjula Singh , Dushyant Kumar Singh , Ajay Kumar Singh International
10	“Riemann Sequence based SLM with nonlinear Effects of HPA”	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)e-ISSN: 2278-1676,p-, Volume 10, Issue 6 Ver. I (Nov – Dec. 2015) Impact factor : 1.419	ISSN: 2320-3331	Chhavi Sharma , A.K.Gupta, S.K.TOMAR International
11	“Optimized Method of Power Control During Soft Handoff in Downlink Direction of WCDMA Systems”	Proc. Third IEEE Inter. Conf. on Parallel, Distri. and Grid Computing, December 11-13, 2014, Solan, India. (h-(index, median)=(9, 19). (http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7030785&queryText=Parallel%2C+Distributed+And+Grid+Computing+LB.PDGC.RB.%2C+2014+International+Conference+On&refinements[]=4230795276&refinements[]=4230682718&refinements[]=4230824562&refinements[]=4228407264&searchField=Search_All#)	doi: 10.1109/PDGC.2014.7030785	Shalini Agarwal, Shiv K Tomar, Alok Aggarwal, International
12	“Green Technology”	National Conference on Advances in Electronics and Communication Engineering(AECE-14) 27-28TH March2014,organized by Electronics and Communication Department,M.J.P.Rohilkhand University Bareilly		Chhavi Sharma, Praveen Kumar, S.K Tomar International
13	“Survey and Taxonomy of Soft Handoff in 3rd Generation CDMA based System.”	World Conference on Advances in Communication and Control Systems CACCS-2013, April 6-8, 2013. [Scopus, DBLP], (h-(index, median)=(5, 9). (www.atlantis-press.com/php/download_paper.php?id=6395)		Aggarwal Shalini, Tomar S.K., and Aggarwal Alok International
14	“Performance Analysis of Soft Handoff Algorithm Using Fuzzy Logic in CDMA Systems	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012)</i> , December 6-8, 2012, Waknaghat, Solan, India. [Scopus] (h-(index, median)=(9, 19) (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449886&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449886)	doi: 10.1109/PDGC.2012.6449886	Aggarwal, Shalini, Tomar, S., and Aggarwal, International
15	“On Challenges and Opportunities in Second Wave of ICT Revolution for South Asian Countries”	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012)</i> , December 6-8, 2012, Waknaghat, Solan, India. [Scopus] (h-(index, median)=(9, 19) (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449888&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449888)	doi: 10.1109/PDGC.2012.6449888	Aggarwal, Shalini, Tomar, S., and Aggarwal, A., International
16	“Trends in Power Control During Soft Handoff in Downlink Direction of 3G WCDMA Cellular Networks,”	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012)</i> , December 6-8, 2012, Waknaghat, Solan, India. [Scopus] (h-(index, median)=(9, 19) (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449889&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449889)	doi: 10.1109/PDGC.2012.6449889	Aggarwal, Shalini, Tomar, S., and Aggarwal, International
18	“PAPR reduction	National seminar on software applications in engineering and technology (SAET-		Chhavi Sharma , S.K.Tomar,

	techniques for multicarrier systems: overview”	An	2012), Institute of engineering and technology ,M.J.P.Rohilkhand University Bareilly17TH Feb 2012		A.K.Gupta International
20	“Nonlinear Distortion Reduction for Power Efficiency Improvement in OFDM System by Pre-distortion Technique with SSPA Model using Neural Network”		International Conference on Sunrise Technologies (i-COST-2011),SSVPS’s B.S.DEORE College of engineering & polytechnic,Dule,-India, January 13-15,2011		Chhavi Sharma ,Pankaj Kumar Sharma, S.K.Tomar International
21	“A modified Iterative Amplitude clipping and filtering technique for PAPR reduction in OFDM systems”		2011 <i>International Conference on Emerging Trends in Networks and Computer Communications (ETNCC)</i> , Udaipur, 2011, pp. 365-368 (https://ieeexplore.ieee.org/document/6255922)	doi: 10.1109/ETNCC.2011.6255922.	Sharma, C.; Sharma, P.K.; Tomar, S.K.; Gupta, A.K. International
22	“Genetic Algorithm based Reduced Order Models for PID Controller Design” India, February, 12-13, 2010		National conference on Research and development Trends in ICT, Lucknow University, Lucknow,		Shiv Kumar Tomar, Rajendra Prasad and Santosh R. Desai International
23	“Particle Swarm Optimization based Reduced Order Models for Controller Design”		International conference on Systems Science in Wroclaw University of Technology, Wroclaw, Poland, September, 14-16, 2010		Shiv Kumar Tomar and Ashish Jain
24	“Model Reduction of Linear Systems by Conventional and Evolutionary Techniques”		<i>International Journal of Computational and Mathematical Sciences</i> , vol. 3, no. 1, pp. 28-34, 3 rd January 2009 (https://www.researchgate.net/publication/283146082_Model_Reduction_of_linear_systems_by_conventional_and_evolutionary_techniques)	ISSN 2070-3910	S. Panda, S. K. Tomar, R. Prasad, C. Ardil.
25	“Order Reduction of LTI Systems Using Hurwitz Polynomial Approximation and Indirect Method”		<i>International conference on Energy and Environment Organized by National Institute of Technology, Kurukshetra, Taj Chandigarh</i> , pp 869-673, March 19-21,2009(https://publications.waset.org/13030/reduction-of-linear-time-invariant-systems-using-routh-approximation-and-pso)	Digital Object Identifier (DOI): doi.org/10.5281/zenodo.1080364	Shiv Kumar Tomar and Rajendra Prasad International
26	“Order reduction of LTI Systems using Hurwitz polynomial approximation and factor division method”		International conference on modeling of engineering and technological problems (ICMETP), BMAS Engineering college Agra, January14-16, 2009		Shiv Kumar Tomar and Rajendra Prasad International
28	“PID Controller Design using Genetically Optimized Reduced		International conference on Energy and Environment Organized by National Institute of Technology, Kurukshetra, Taj Chandigarh, pp 869-673, March 19-21,2009		Shiv Kumar Tomar, Rajendra Prasad and Santosh R. Desai International

	Order Model”			
29	“Reduction of large scale systems using evolutionary process of Particle Swarm optimization”	National conference on “cutting edge computer and electronics technology” cecet- 09, GBPUAT Pantnagar, pp 491-494, February 14-16, 2009		Shiv Kumar Tomar and Rajendra Prasad International
30	“Reduction of Linear Time-Invariant Systems Using Routh-Approximation and PSO”	<i>International Journal of Computational and Mathematical Sciences</i> , vol. 3, no. 9, pp. 82-89, 5 th February 2009. (https://publications.waset.org/13030/reduction-of-linear-time-invariant-systems-using-routh-approximation-and-pso)	Digital Object Identifier (DOI): doi.org/10.5281/zenodo.1080364	S. Panda, S. K. Tomar, R. Prasad, C. Ardil International
31	Application Of Discrete Fourier Transform On Multispectral Image Of Bareilly Region”	International Journal of Advance Research In Science And Engineering http://www.ijarse.com IJARSE, Vol. No.4, Special Issue (01), February 2015	ISSN- 2319-8354(E)	Hari Kumar Singh, Dr. S.K. Tomar, Pooja Singh, P.S. Pandey,” International
32	“On challenges and opportunity in second wave of ICT revolution for south Asian countries”	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012)</i> , December 6-8, 2012, Wagnaghat, Solan, India. [Scopus] (h-(index, median)=(9, 19) (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449888&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449888)	doi: 10.1109/PDGC.2012.6449888	I Shalini Agarwal, Shiv K Tomar, Alok Aggarwal, International
33	“Optimized method of power control during soft handoff in downlink direction of WCDMA system”	<i>Proc. Third IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2014)</i> , December 11-13, 2014, Wagnaghat, Solan, India. (h-(index, median)=(9, 19). (http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7030785&queryText=Parallel%2C+Distributed+And+Grid+Computing+.LB.PDGC.RB.%2C+2014+International+Conference+On&refinements[]=4230795276&refinements[]=4230682718&refinements[]=4230824562&refinements[]=4228407264&searchField=Search_All#)	doi: 10.1109/PDGC.2014.7030785	Shalini Agarwal, Shiv K Tomar, Alok Aggarwal, International
34	Performance analysis of soft handoff system using fuzzy logic in CDMA system	<i>Proc. The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012)</i> , December 6-8, 2012, Wagnaghat, Solan, India. [Scopus] (h-(index, median)=(9, 19) (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6449886&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6449886)	doi: 10.1109/PDGC.2012.6449886	Shalini Agarwal, Shiv K Tomar, Alok Aggarwal International
35	Analysis of remote sensed data using different image processing algorithm applied to agriculture yield optimization model: A case study of Bareilly region”	Indation and Research in Computer (IJAFRC) Volume 2, Issue 9, September - 2015. (https://www.scribd.com/document/299619308/Analysis-of-Remote-Sensed-Data-using-Different-Image-Processing-Algorithms-applied-to-Agriculture-Yield-Optimization-Model-A-Case-Study-of-Bareilly-R)	ISSN 2348-4853, Impact Factor 1.317	Hari Kumar Singh, Dr. S.K. Tomar,” International
36	“Reduction of Discrete Systems Using Combined Advantages of Mihailov Stability	14th international congress of cybernetics and systems of WOSC Wroclaw, Poland, pp 418-424, September 9-12, 2008.		Shiv Kumar Tomar and Rajendra Prasad International

	Criterion and Modified Cauer Form”			
37	“Linear Model Reduction using Mihailov Stability Criterion and Continued Fraction Expansions”	National System Conference held in I. I. T. Roorkee, pp 603-605, December 17-19, 2008.		Shiv Kumar Tomar and Rajendra Prasad International
38	“Indirect Approach of Model Order Reduction of Linear Time-Invariant Systems Using Truncation Method”	National System Conference held in I. I. T. Roorkee, pp 588-592, December 17-19, 2008.		Shiv Kumar Tomar and Rajendra Prasad International
39	“Reduction of Discrete Systems Using Combined Advantages of Mihailov Stability Criterion and Modified Cauer Form”.	14 th international congress of cybernetics and systems of WOSC Wroclaw, Poland, pp 418-424, September 9-12, 2008		Shiv Kumar Tomar and Rajendra Prasad International
40	“Linear Model Reduction using Mihailov Stability Criterion and Continued Fraction Expansions”	National System Conference held in I. I. T. Roorkee, pp 603-605, December 17-19, 2008.		Shiv Kumar Tomar and Rajendra Prasad International
41	“Indirect Approach of Model Order Reduction of Linear Time-Invariant Systems Using Truncation Method”.	National System Conference held in I. I. T. Roorkee, pp 588-592, December 17-19, 2008		Shiv Kumar Tomar and Rajendra Prasad International
42	“Reduction of SISO Discrete Systems Using Modified Cauer Form and Polynomial Differentiation Method	Technovision 2007 National conference on Scenario of Electrical power in India ‘Opportunities and challenges’ SSCET Bhillai, India, pp 42-45, October 26-27, 2007.		Shiv Kumar Tomar and Rajendra Prasad International
43	“Discrete System Reduction Using Routh Approximation and modified Cauer form”	National conference on Control and Instrumentation, National Institute of Technology Kurukshetra, India, pp 14-17, December 29-30, 2007.		Shiv Kumar Tomar and Rajendra Prasad International
44	,”A simple circuit for generating a carrier to convey four channels of information simultaneously”,	journal,modeling & simulation and control, AMSE pocss. Vol.-31,No. 4 1991,pp 43-49.		Wasim ahmed and S.k. Tomar International

45	A compact circuit for lab demonstration of binary signaling techniques”, student	Journal Vol-31, No. 1, Jan 1990 pp 5-7.		Wasim ahmed and S.k. Tomar,” International
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(d) Chapter/Paper Published in Edited Books								
Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	DOI	Citation Google/ web of science
National	International							
(e) Invited as Resource Lectures Person/Examiner/Expert								
Resource person	Detail of Event	Title of Lecture	Date	Institution				
(Dr. Alluri Sreenivas) and (Prof. V.Malleswara Rao) Convener and Head, Dept of ECE	NATIONAL CONFERENCE ON ADVANCES IN COMMUNICATION TECHNOLOGIES (NCACT -2014) under TEQIP-Phase II	Digital signal processing	14 th -15 th Feb 2014	GITAM University, Visakhapatnam, Andhra Pradesh.				
(f) Seminars/Conferences/Workshops Organized								
1. Coordinator of National Conference on Advances in Electronics and Communication Engineering(AECE-14), 2014 2. Coordinator of One Week National Workshop/STC on Microwave and Wireless communication,29 th March-3 rd April 2016.								
(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)								
Year	Name of Project	Funding Agency	Amount	Duration				
				From	Till			
(h) Administrative Positions/Assignments Held								
Post	Organization	Duration						
		From	To					
HOD	MJPRU, Bareilly	June 1997	Feb 2019					
(i) Seminar/Conference Presentations								
(j) Memberships of Academic/Professional Bodies								
(k) Participation in Community Service / Exchange Programme / Consulting Activity								
(l) International Academic Exposure								
(m) Any Other Details								

Signature of Faculty Member