Yadavindra Department of Engineering
Punjabi University Guru Kashi Campus
Talwandi Sabo

FACULTY ACADEMIC PROFILE

Name	Dr. Ashwani Kumar
Designation	Assistant Professor
Department/ Section/ Subject	Electronics and Communication Engineering
Official Address	Yadavindra Deptt. of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo (Distt. Bathinda) Punjab India - 151302
Contact No. (s)	+91-9317965001
Email (s)	singla_ash2001@yahoo.co.in

ACADEMIC QUALIFICATIONS

Degree	Degree Name		University
PhD	Ph.D., ECE	2021	IKGPTU, Kapurthala
Post-Graduation	M.Tech, ECE	2007	PTU, Jalandhar
Graduation	B.Tech, ECE	1998	GNDU, Amritsar
Any other			

Thrust Areas/ Research Interests	1. Soft Computing 2. Robotics 3. VHDL
Subjects Taught	Digital Electronics, Computer Networks, Analog Circuits, Electromagnetic field theory, Wireless communications, Computer programmimg
Total Experience (Years)	Teaching Experience
Employment History	**1.** Worked as Lecturer, Guru Teg Bahadur Khalsa Inst. of Engg. & Tech., Chhapianwali, Malout From 16 Aug., 2000 to 31 Oct,2006. **2.** Worked as Senior Lecturer, GTBK Inst. of Engg. & Tech., Chhapianwali, Malout From 1 Nov.,2006 to 16 Sep.2007. **3.** Worked as Assistant Professor, ECE Deptt. at GTBK Inst. of Engg. & Tech., Chhapianwali, Malout From 17 Sep.2007 to 31 Aug,2011. **4.** Worked as Associate Professor, ECE Deptt. at GTBK Inst. of Engg. & Tech., Chhapianwali, Malout since 1 Sep.2011 to 3 Nov.2012. **5.** Working as Assistant Professor, ECE Deptt. at YDoE, Talwandi Sabo

	since 5 Nov.2012 to till date.
Membership of Punjabi University Academic Bodies	1. 2. 3.
Administrative/ Academic Duties performed.	1. **IQAC committee member,YCoE** 2. **M.Tech Incharge (ECE)** 3. **Administrative officer, YCoE** 4. **MTech ECE Admission coordinator** 5. **Time Table committee member ECE**

FACULTY RESEARCH PROFILE

Google Scholar ID	singlaashwani75@gmail.com		
Impact Factor		Citation Index	
h-Index	**06 (six)**	I10-index	**06 (six)**
SNIP		SJR	
No. of Candidates (Completed PhD)	NA	No. of Candidates (Ongoing PhD)	NA
PG Thesis guided-**16 (sixteen)**		PG Thesis Ongoing	NA
Research Projects Completed 1. Title 2. Amount in lakhs 3. Date of completion	NA		
Research Projects Ongoing 1. Title 2. Amount in lakhs 3. Date of completion	NA		
Research Projects Submitted	NA		
Research Grant received	NA		
Names of Foreign Countries Visited for Academic Purpose	NA		
Papers in International Journals	20	Papers in National Journals	
Papers in International Conferences	07	Papers in National Conferences	02
International Conferences Attended	02	National Conferences Attended	01

Books Published as Single Author		Books Published as Joint Author	
Edited Books		Book Chapters	01
International Conferences/ Workshops/ Seminars /STCs/ FDPs organized		National Conferences/ Workshops/ Seminars/ STCs/ FDPs organized	
Total International Conferences/ Workshops/ Seminars /STCs/ FDPs attended		Total National Conferences/ Workshops/ Seminars/ STCs/ FDPs attended	
Memberships of International Professional Bodies-**01 (One)**		Memberships of National Professional Bodies- **02 (Two)**	
Total International Medals/ Awards/ Honors/ Scholarships Received		Total National Medals/ Awards/ Honors/ Scholarships Received	
Editor/ Reviewer of International Journals		Editor/ Reviewer of National Journals	
Session Chair/Invited Talks/Seminars/Expert Lecture in International Conferences		Session Chair/Invited Talks/Seminars/ Expert Lecture in National Conferences	

PHD SUPERVISION DETAILS

S.No.	Candidate Name	Registration No.	University
Completed			
1			
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Ongoing			
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LIST OF SCI JOURNAL PUBLICATIONS

S. No.	Author	Title	Journal	Vol.	Number	Page no.	Year of Publication
1							
2							
3							

S. No.	Author	Title	Journal	Vol.	Number	Page no.	Year of Publication
4							
5							
6							
7							

LIST OF SCOPUS INDEX JOURNAL PUBLICATIONS

S. No.	Author	Title	Journal	Vol.	Number	Page no.	Year of Publication
1	Ashwani K., Vijay K., Darshan K.	Kinematics Analysis of 5R axis using Evolutionary Algorithms	International Journal of Recent Technology and Engineering	8	3	7028-7033	2019
2	Ashwani K., Vijay K., Darshan K.	Kinematics Analysis of Manipulator using Soft Computing Technique	International Journal Engineering and Advanced Technology	9	1	996-1003	2019
3	Ashwani K., Vijay K., Darshan K.	Workspace and Analysis of Five Axes Manipulator using Swarm Algorithm	International Journal of Scientific and Technology Research	8	10	713-718	2019
4	Ashwani K., Vijay K., Darshan K.	Evolution of Optimization Algorithm Operated Robotic Arms with different DOF	International Journal of Scientific and Technology Research	9	1	19-26	2020
5	Ashwani Kumar, Parminder Singh	Design and Analysis of 32-Bit Multiplier Using Vedic Techniques	Design Engineering	9		3374-3383	2021
6							
7							

LIST OF NON-SCI JOURNAL PUBLICATIONS

S. No.	Author	Title	Journal	Vol.	Number	Page no.	Year of Publication
1							
2							
3							
4							
5							
6							
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LIST OF CONFERENCE PUBLICATIONS

S. No.	Author	Title	Conference Name	Page no.	Year of Publication
			International Conferences		
1	Nirmaljeet Kaur, Ashwani Singla	Performance and Optimized Design of Modulo 2n+1 Multiplier for RNS	International conference on Electronics, Communication and Information technology (ICECIT-2013) organized by Thapar University, Patiala (Oct. 4-5, 2013)	376-386	2013
2	Navjot Kaur, Ashwani Kumar	Heterogeneity has better performance to Homogeneity: Design of an Efficient 24bit Heterogeneous Adder, pp.	Proceedings of International conference on Electronics, Communication and Information technology (ICECIT-2013) organized by Thapar University, Patiala (Oct. 4-5,2013)	720-734	2013
3	Puneet Kumar, Ashwani Kumar Singla	Design and comparative Analysis of Transmission Gate based different 16 bit adders using 90nm technology	International conference on Advance Computing & Communication Technologies (ICACCT-2014) organized by APIIT SD India, Panipat (Nov. 15, 2014)		2014
4	Ashwani Kumar, V K Banga, Darshan Kumar	Movement Optimization of Robotic arm for Obstacle Avoidance: A	2nd International Conference on Electrical, Mechanical and Communication Engineering, Kuala	47-55	2016

		Review	Lumpur, Malaysia		
5	Ashwani Kumar, V K Banga, Darshan Kumar	Kinematic Modeling of Robotic arm using DH-Parameters	International Conference on Innovations and Research in Marine Electrical and Electronics Engineering, Chennai, India	9-14	2018
6	Ashwani Kumar, Vijay Kumar Banga, Darshan Kumar, Thaweesak Yingthawornsuk	Kinematics Solution using Metaheuristic Algorithms	2019 IEEE 15th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), Italy, France	505-510	2019
7	Ashwani Kumar, V. K. Banga, Darshan Kumar,	Optimization of 6R Industrial robot using Bee Algorithm	International Conference on Data Sciences and Machine Learning (ICDSML), Amritsar		2020
8					
National Conferences					
1	Ashwani Kumar, Jaspal Singh	Analysis of Bit Error Rate of OFDM with 16 PSK, 16 QAM, 32 PSK & 32 QAM Using MATLAB	2nd National Conference on Wireless and Optical Communication (WOC-2008) organized by Punjab Engineering College, Chandigarh		2008
2	Ashwani Kumar	CA-AODV : Congestion Adaptive AODV Routing Protocol for streaming video in Mobile Adhoc Networks	National conference on Emerging Trends in Engineering & Information Technology organized by GTBKIET, Chhapianwali Sponsored by AICTE		2009
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ANY OTHER FIELD

S. No.			
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(Updated as on date: May, 2022)