### **CENTRAL UNIVERSITY OF JAMMU**

### **FACULTY PROFILE PERFORMA**

Name	Dr. Rajiv Kumar		
Title & Desi	gnation	Assistant Professor Department of Electronics & Communication, Central University of Jammu. Rahya-Suchani (Bagla), District Samba, Pincode - 181 143, Jammu & Kashmir (J&K), India	
Residence Ac	ddress		
Mobile Number Residence Phone No		7015560524	
Email		rajiv.ece@cujammu.ac.in	Con
Educational	Qualifications:		
Degree		Institution	Year
PhD		NIT Kurukshetra, Haryana	2020
M.tech		NIT Jalandhar, Punjab	2014
B.Tech		CDLMEC Sirsa, Kurukshetra University	2008
Career Prof	:1		

#### **Career Profile:**

- Currently working as a Assistant Professor in ECE department Central University Jammu since 27/07/2023.
- Worked as an Assistant Professor under TEQIP- III in ECE department in College of Technology, G.B. Pant University of Agriculture and Technology, Pantnagar from 28, Sep, 2018 to 30/09/2022.
- Worked as a Research scholar in NIT Kurukshetra from 28/01/2016 to 27/09/2018.
- Worked as an Assistant Professor in Government Engineering College, Ajmer from 16, July, 2015 to Januarry, 2016.
- GATE Qualified in ECE: 2010,2011,2012, 2013, 2014,2015

# **Administrative Assignments:**

1. As Member of the Anti ragging Committee in GBPUAT Pantnagar Uttarakhand.

# Areas of Interest / Specialization:

- 1. Wireless Communication: Physical layer security in MIMO & MUS-MIMO system
- 2. Control System

# **Subjects Taught:**

Signal & System Analog communication system Digital communication system Electronics devices Analog electronic & circuits Electromagnetic wave theory Control system Basic electronics Solid state devices	
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Research Guidance:	
Ph.D Students Supervised:	
Name	Title
Ph.D Students Supervising:	
Name	Title
M.Tech Students Supervising	
Name	Topic
Name	Торк

F	Publications Profile:				
	a. Research Papers in Journals				
	1				

- 1. R. Kumar and S. S. Chauhan. "Secrecy analysis of MRT/RAS system under Nakagami-m fading channels in the presence of imperfect channel state information". Int. J. Electron. Commun. (AEU) 2017; 85: 68-73.
- 2. R. Kumar and S. S. Chauhan. "Secrecy Analysis of alamouti scheme using Feedback-Rate Efficient Transmit Antenna Selection with Robust Error Performance in the Presence of Feedback Errors". Int. J. Electron. Commun. (AEU) 2018; 96: 40-47.
- 3. R. Kumar and S. S. Chauhan. "Physical layer security for Space-Time-Block-Coded MIMO system in Rician fading in the presence of imperfect Feedback," Wireless Networks. Aug. 2020;26(6):4239-47.
- 4. R. Kumar and S. S. Chauhan. "Physical Layer Security for Multi-user Multi eavesdropper multi input multi output (MIMO) system in the Presence of Imperfect feedback," International Journal of Communication Systems. 2020 Nov 25;33(17):e4604.

## Patent:

1. An Indian patent was published as a PI on 30/09/2022 with title "Secrecy Performance Analysis of Heterogeneous Multi-user MIMO Systems in the Presence of Outdated CSI over Rayleigh Fading Channel" with **Reference no. 202111006117.** 

	rch Paper in Books		

с. (	Conference Proceedings
Confere	ence / Workshops/Training Organized:
Creatio	n of ICT Mediated Teaching Learning Pedagogy and Content:
Worksh	nops/Training attended as Faculty Member:
1.	Attended a 5 days Faculty development Program on <b>Trends and challenges in wireless communication and digital processing</b> in <b>National Institute of Technology Kurukshetra</b> on 07-12 Janurary, 2019.
2.	Attended a 5 days Faculty development Program on <b>Advanced Pedagogy on Digital Tools</b> in <b>Indian Institute of Technology</b> ,
2	Delhi on 024-28 June, 2019.
3.	Successfully completed Online Short term course on <b>Digital transformation in teaching learning process on SWAYAM, IIT BOMBAY.</b>

Invited Lectures/Resource Persons:
Research Projects (Major Grants/Research Collaboration):
As PI
Title of Project: PLS Performance analysis of MUS-MIMO system in the presence of imperfect channel state information
Sponsoring agency: NPIU-MHRD
As Co-PI
Title of Project: Player security performance analysis of Cognitive Radio Systems in the presence of imperfect channel state information
(CSI)
Sponsoring agency: UCOST, Uttarakhand
Association with Professional Bodies:
One year Members of IEEE
• Life Time Members of the Institution of Engineers( India) with Membership No: M-1693365.

18-08-2023 Dr. Rajiv Kumar