STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr.	First	КНҮАТ	Τ	Last	CHOPRA	
1100	D 1.	Name			Name		
Designation		ASSISTANT PROFESSOR					
School /Dept. Name		USAR					
Address:		19, 3 rd Floor, Ram Vihar, Delhi-110092					
Phone No.		Office					
		Resider	nce (optional)			
			9	717276968			
Email		1. khyati.usar@ipu.ac.in		2.	khyatichopra1340	@gmail.com	
Web Page (if any)	https://scholar.google.com/citations?user=7vAKHG4AAAAJ&hl=en&oi=ao					
Subjects Taught		Wireless Communication, Internet of Things, Embedded System, Electrical Science, Electronic Devices and Circuits, Analog and Digital Communication and Computer Networks					
Areas of Interest/ Specialization		 Physical Layer Security Cooperative Communication Cognitive Radio Networks Internet of Things Game Theory. 					
Experience (in years)		Total					
		Industr	y	Six Months	S		
				Star			in the Cellular truments (NI, R&D),
		Teachir	eaching 5 Years 6 Mo		6 Months		
					istant Pr vember 9,		, GGSIPU-EDC from
				Cor	nputer Sc	RE FACULTY in cience & Engineer om July 20, 2020 to	
				Elec	ctronics a		penka University in artment (DEEE), SOE 2020.

	Research	4 Years (2014-2018)		
		• Ph.D. from Indian Institute of Technology, Delhi on "Wireless Security", under the supervision of Prof. Ranjan Bose (Microsoft Chair Professor), co-guided by Dr. Robin A. Gandhi from University of Nebraska, Omaha, United States. The research work was in collaboration with Prof. Anupam Joshi from University of Maryland (Director, UMBC Center for Cyber-Security), Baltimore County, United States.		
Educational Qualifications	UG	B.Tech from IGDTUW (former IGIT, GGSIPU)		
	PG	M.Tech from BITS PILANI		
	Doctorate	Ph.D. from IIT DELHI		
	Any other – Diploma in IPR			
Research Publications in Journals (last 5 years)				

in Indian Journal of Science and Technology, 2022. **8.** D. Joon and **K. Chopra,** "Hybrid Deep Learning Prediction Model for Blackhole Attack Protection in Wireless Communication," in NVEO - Natural Volatiles & Essential Oils Journal, pp. 10228-10243, 2021. (**Scopus, Elsevier**) 9. K. Chopra, "A Review on Secrecy Performance of Cooperative Relay Network with Diversity", International Journal of Internet *Technology and Secured Transactions*, 2021. (Scopus, Elsevier) 10. K. Chopra, A. Sondhi and M. A. Alam, "Trust-Based Duopoly Secure Game Models for Cooperative Relay Networks", International Journal of Internet Technology and Secured Transactions, 2021. (Scopus, Elsevier) 11. K. Chopra, "Mobile Ad Hoc Network Security using Mean Field Game Theoretic Threshold-Based Scheme", Recent Advances in Computer Science and Communications, 2021. (Scopus Indexed) 12. D. Joon and K. Chopra, "Game Theory for Network Security- A Literature Survey," in Journal of Critical Reviews vol. 7, no. 10, 2021. 13. E. Soni, A. Nagpal, K. Chopra, "The Role of ECG for Identifying Cardiac involvement In Patients Post Covid19,"in Drugs and cell Therapies in Hematology, vol. 10, no. 1, pp.1498-1510, 2021. (ESCI Indexed) Papers Published in 5 Conference Publications Conference Proceedings (last 5 years) 1. R. Bholan, S. Agrawal, K. Chopra, S. Kumar, "Coverage and Latency analysis for NB- IoT in Uplink transmission" in International Conference on Decision Aid Sciences and Applications (DASA), March 2022. 2. S. Sharma, K. Chopra and A. Ahmad, "Compressed Sensing: A Survey Paper," in *Proc 3rd International Conference on ICT for Digital*, Smart, and Sustainable Development (ICIDSSD), 24-25 March, Jamia Hamdard, 2022. 3. E. Soni, **K. Chopra**, "The IoT for Healthcare And Telemedicine: A Review," in *Proc. 3rd International Conference on ICT for Digital*, Smart, and Sustainable Development (ICIDSSD), 24-25 March, Jamia Hamdard, 2022. 4. S. Sharma, K. Chopra and A. Ahmad, "Classification of Iris dataset using Bayesian Models," in Proc 3rd International Conference on ICT for Digital, Smart, and Sustainable Development (ICIDSSD), 24-25 March, Jamia Hamdard, 2022. 5. D. Joon and **K. Chopra**, "Oligopoly game modelling framework for secure power trading in cognitive radio network," in International Conference on Emerging Trends in Electrical and Electronics Engineering (ICETEEE'21), Sri Shakthi Institute of Engineering and

Technology, Coimbatore, 2021.

Books Authored/ BookVolume Chapters	1 Book Authored				
Book voiding chapters	Book published on "Secrecy in Cooperative and Cognitive Relay Networks with Game Theory" with ISBN 978-620-0-09455-1 in 2019.				
	4 Book Chapters				
	 N. Agarwal, A. Sondhi, K. Chopra and G. Singh , "Transfer Learning: Survey and Classification" in Advances in Intelligent Systems and Computing, 2021. (Springer Book Series) E. Soni and K. Chopra, "IoHT – Health care with Internet of Things" in the book series Biomedical Engineering: Techniques and Applications and book titled IoT and Cloud Computing base Healthcare Information System, 2021. 7. R. Bholan, S. Agrawal and K. Chopra, "Analysis of Energy Efficient Narrowband Internet of Things (NB-IoT): LPWAN Comparison, Challenges, and Opportunities" book chapter in Wireless Communication with Artificial Intelligence: Emerging Trend and Applications, chapter 11, Taylor & Francis USA, Cl Press, 2021. 8. R. Bholan, S. Agrawal and K. Chopra, "Narrowband Internet Things (NB-IoT) - Analysis of Development Mode and Radio Coverage" book chapter in Wireless Communication with Artificial Intelligence: Emerging Trend and Applications, chapter 10, Taylor & Francis USA, CRC Press, 2021. 				
No. of Conferences	National	Attended	Organized		
		7 National Conferences Attended			
	International	1 International Conference Attended	3 International Conferences Organized		
		• K. Chopra, R. Bose and A. Joshi, "Secrecy Outage Performance of Cooperative Relay Network With Diversity Combining," in Proc. IEEE 2nd International Conference on Signal and	Day 3rd International Conference on ICT for Digital, Smart, and Sustainable Development on 24- 25 March 2022 in Jamia Hamdard.		

		(ICSI NTU: Singa Aug. (Best	essing (P'17), apore, 2017. Paper entation	 Organized Two-Day International Conference 'ICSCC' on 7-8 February 2020 in GD Goenka University Organized Two-Day International Conference 'REDSET' on 15-16 November, 2019 in GD Goenka University. 		
Research Guidance	Awarded	PG	M. Phil	Doctorate		
				2 PhD Awarded		
	Undergoing			3 Undergoing		
Research Projects	Completed	NA				
	Undergoing	DST funded project of 35 Lacs on "Smart Game-Automated Optimized Model for Secure Farming System"				
Administrative Assignments Handled						
	 Academic Administration (NAAC/NIRF) Committee member in ISAR, GGSIPU-EDC. 					

- Class Incharge of IIOT in USAR, GGSIPU-EDC for academic year 2022-2023 and 2023-2024.
- Scheme and Syllabus Design Committee in USAR, GGSIPU-EDC.
- Mentor of BTech IIOT students regarding the identification of courses to be pursued for the award of BTech (Hons) Degree in the academic year 2023-2024.
- Virtual Lab **Nodal** Coordinator in GGSIPU-EDC in collaboration with **IIT-Delhi.**
- Stage Management Committee for the Orientation Program on 11th September 2023.
- Project Showcase Committee during the Inaugural ceremony of the East Delhi Campus on 8th June 2023.
- MATLAB licence verification Committee member of GGSIPU.
- Organized IoT Workshop in collaboration with Eigen Technologies on 16th September 2023 in USAR, GGSIPU-EDC
- Organized Virtual **Lab Seminar** in collaboration with **IIT Delhi** for faculty members in USAR, GGSIPU on 9th August 2023.
- Elysian Cultural Event Committee member held on 27-28 March 2023 in USAR, GGSIPU-EDC
- AZINTEK Technical Event Committee member held on 13th October 2023 in USAR, GGSIPU-EDC
- IoT Lab and Wireless Communication and Mobile Computing (WCMC) incharge in USAR, GGSIPU-EDC.
- IoT and WCMC Lab set up Committee member in USAR, GGSIPU-EDC..
- Session Chair in 5th International Conference on Information Management & Machine Intelligence (**ICIMMI- 2023**).
- Session Chair in 2nd International Conference on "Artificial Intelligence and Applications" (ICAIA 2024).
- Organized Two-Day Virtual Lab Workshop on 26-27 May 2021 and One-Day Virtual Lab Workshop on 30 November, 2021 in Jamia Hamdard.
- Organized Two-Day 3rd International Conference on ICT for Digital, Smart, and Sustainable Development on 24- 25 March 2022 in Jamia Hamdard.
- Reviewer of Six International Journals, Bentham Science Ambassador and Editorial Board member of Thirteen International Journals.
- Supervisor and Mentor of working Start-ups under Centre for Innovation, Incubation and Entrepreneurship (CIIE) in Jamia Hamdard.
- Representative from Jamia Hamdard in **BIRAC Start-up Expo 2022** for showcasing the achievements and activities of Jamia Hamdard.
- Organized Two-Day International Conference 'ICSCC' on 7-8 February 2020 in GD Goenka University
- Organized Two-Day International Conference 'REDSET' on 15-16 November, 2019 in GD Goenka University.

	• Curriculum Coordinator of the Masters Program and Program Coordinator for the overall activities of the EEE department in GDGU from 2018-2020.
	• Organized One-day National Workshop on 'Blockchain Technology' on 15 November, 2019 and Two-day National Workshop on: 'Internet of Things using Raspberry Pi' on October 30-31, 2018 in GDGU.
	Virtual Lab Nodal Coordinator in Jamia Hamdard from 2020 in collaboration with IIT Delhi.
	• Session Chair in the 3rd International Conference on ICT for Digital, Smart, and Sustainable Development on 24-25 March 2022.
	 Session Chair in the International Conference on Sustainable Cities and Communities on 7-8 February 2020. Supervisor of National level Hackathon project on "Smarter Surveillance System", PETT project on "Smart Home System", Minor project on "Fully Automated Irrigation System" and IDP project on "Economic Analysis of Cyber Security" and TOYCATHON project on "Autonomous Joint Ambient-Resource Saving System (AUJASS).
Association with Professional Bodies	ACM member, IEEE member, Bentham Science Ambassador
Any other Achievements	 Founder of ESPERON DIGITAL Startup Indian Patent filed with Application no. 202311007062 in 2023. Indian Patent filed with Application no. 202211008260 in 2022. Indian Patent filed with Application no. 202111054294 in 2022.