

SCHOOL OF ELECTRONICS AND COMUNICATION ENGINEERING

Extension Lectures Delivered by Outside Experts/Outside Faculty in the School and in-house Faculty outside School/University (2024-2025):

Sl. No	Name of the Faculty	Title of the seminar/conference and dates & year	Title of the Talk	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker	National/ International (abroad)/ International (within the country)/ State/University
1	Dr. Vikram Singh	Refresher Course on ICT with theme on “Emerging Technologies in Teaching and Research”	Use of ICT in Effective Teaching & Learning	UGC-HRDC, BPSMV, Sonapat (Haryana)	Two Invited Lectures	International
		Guest Lectures for Vocational Subjects	AI, Cloud Computing, Virus, Anti Virus or some smart gadgets, Database Management	Govt. Higher Secondary School, Panthal	Invited Lectures	National

Research Publications (with full details in below format) for 2024-2025:

For book:

Sl.No	Title of the book	Name of the Author and Co-authors (Mention all authors)	Name of the publisher Indicate National or International	ISBN No. Year of publication
1	Deep Reinforcement Learning and Its Industrial Use Cases: AI for Real-World Applications	Prof.Amit Kant Pandit	John Wiley & Sons	978-1-394-23092-1
2	Integrating Metaheuristics in Computer Vision for Real-World Optimization Problems	Prof.Amit Kant Pandit	John Wiley & Sons	978-1-394-23092-1
3	Deep Learning in Engineering, Energy and Finance: Principals and Applications	Prof.Amit Kant Pandit	CRC Press	9781003564874
4	Innovations in Biomedical Engineering Trends in Scientific Advances and Applications	Prof.Amit Kant Pandit	Academic Press Elsevier	eBook ISBN: 9780443301476
5	Smart Systems: Engineering and Managing	Prof.Amit Kant Pandit	Springer, Singapore	978-3-031-76151-5

	Information for Future Success			
6	Deep Learning in Engineering, Energy and Finance Principals and Applications	Prof.Amit Kant Pandit	Routledge Taylor and Francis group	9781032627724
7	Integrating Metaheuristics in Computer Vision for Real-World Optimization Problems	Prof.Amit Kant Pandit	Wiley Scrivener Publishing LLC	978-1-394-23092-1
8	Deep Reinforcement Learning and Its Industrial Use Cases: AI for Real-World Applications	Prof.Amit Kant Pandit	Wiley Scrivener Publishing LLC	ISBN:9781394272587

For chapters in a book (2024-2025):

Sl. No	Name of the Faculty	Title of the chapter	Title of the book	Editors (Mention all Editors)	Name of the publisher Indicate National or International	ISBN No. and year of publication
1	Dr. Purnima Hazra	Quality management system for automated product sorting using PLC	Smart Computing and Communication for Sustainable Convergence	Shalli Rani, Ayush Dogra, Ashu Taneja	CRC Press International	ISBN-9781003637530

2	Dr. Purnima Hazra	Automatic water tank level monitoring and controlling system using PLC and sensors	Smart Computing and Communication for Sustainable Convergence	Shalli Rani, Ayush Dogra, Ashu Taneja	CRC Press International	ISBN-9781003637530
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For paper (2024-2025):

Sl. No.	Name of Author	Title of paper	Name of the Journal: ISSN No.: Dol: (ISSN or Dol)	Volume: Issue No.: Year: Page Nos.:	Specify: Peer-reviewed/ UGC / SCOPUS Impact factor: (if available)
1.	ZA PanditJibrán, Kumud R Jha, Satish K Sharma, Anuj Shukla	An ultra-thin switched state active frequency selective surface absorber with wide bandwidth using semi-analytical method	IET Microwaves, Antennas & Propagation 1751-8733 https://doi.org/10.1049/mia2.12511	18(12), 2024, 944-956	SCIE, IF: 1.2
2.	SeemaJangra, Amit Kant Pandit	Secure Data Forwarding with Key Management in Vehicular Delay Tolerant Network.	Journal of Computational Analysis and Applications 1572-9206	33(7), 2024,1199-1208	Scopus

			https://eudoxuspress.com/index.php/pub/article/view/1196		
3.	Misbah Shafi, Rakesh Kumar Jha, Sanjeev Jain, Mantisha Gupta, Zeenat Zahra	Safeguarding the Internet of Health Things: Advancements, Challenges, and Trust-Based Solution	Telecommunication Systems 1572-9451 https://link.springer.com/article/10.1007/s11235-024-01211-9	87, 2024, 779-808	Scopus
4.	Momina Mushtaq, Rakesh Kumar Jha, Manish C. Sabraj, Shubha Jain	Attack Modeling and Security Analysis Using Machine Learning Algorithms Enabled with AR and VR	International Journal of Computer Network and Information Security, 2074-9104 https://doi.org/10.5815/ijcnis.2024.04.08	16(4), 2024, 118-129	Scopus
5.	Sadat Riyaz, Vijay Kumar Sharma, Neeraj Kaushik	Implementation of EXOR and Subsequent Modular Circuits for Application at Nanoscale Level	IETE Journal of Research 0974-780X https://doi.org/10.1080/03772063.2024.2412805	71(1), 2025, 284-291	SCIE, IF: 1.3
6.	Mehwish Maqbool, Vijay Kumar Sharma	Circuits implementations using carbon nanotube field-effect transistor	Engineering Research Express 2631-8695 https://doi.org/10.1088/2631-8695/ad5f75	6, 2024, 036001	SCOPUS

		nanotechnology			
7.	Shams Ul Haq, Vijay Kumar Sharma	Energy-Efficient Design for Logic Circuits Using a Leakage Control Configuration in FinFET Technology	Journal of The Institution of Engineers (India): Series B 2250-2114. https://doi.org/10.1007/s40031-024-01026-x	105, 2024, 903–911.	SCOPUS
8.	Shams ul Haq, Erfan Abbasian, Tabassum Khurshid, Vijay Kumar Sharma	Energy-efficient design of quaternary logic gates and arithmetic circuits using hybrid CNTFET-RRAM technology	PhysicaScripta 0031-8949 https://doi.org/10.1088/1402-4896/ad6194	99, 2024, 085119	SCIE, IF: 2.6
9.	Shams ul Haq, Erfan Abbasian, Tabassum Khurshid, Shaik Javid Basha, Vijay Kumar Sharma	Design analysis of a low-power, high-speed 8 T SRAM cell using dual-threshold CNTFETs	PhysicaScripta 0031-8949 https://doi.org/10.1088/1402-4896/ad61ca	99, 2024, 085237	SCIE, IF: 2.6
10.	Vijay Kumar Sharma	Fault-tolerant and Area-efficient EXOR Circuit Design using QCA	Journal of Engineering Science and Technology Review 1791-2377 https://doi.org/10.25103/jestr.175.03	17(5), 2024, 24-31	SCOPUS

		Nanotechnology			
11.	Ekta Jolly, Vijay Kumar Sharma	Ternary Logic Implementation Using CNTFET Nanotechnology: A Review	Current Nanoscience 1875-6786 https://doi.org/10.2174/0115734137345567241120062017	2025, 1-14	SCOPUS
12.	Vinod Kumar, Sachin Kumar Gupta, Abid Hussain, Amit Sharma	A Systematic Approach to Prevent Threats Using IDS in IoT Based Devices	Gmsarnjournal 1905-9094 https://gmsarnjournal.com/home/wp-content/uploads/2024/05/vol19no1-12.pdf	19, 2025, 107-112	SCOPUS
13.	Gupta, Sachin Kumar, Gupta S.K.,Gupta, Parul, Singh, Pawan	Enhancing UAV-HetNet security through functional encryption framework	Concurrency ComputatPractExper. 1532-0634 10.1002/cpe.8206	36(20), 2024, e8206	SCIE, IF: 1.5
14.	Sachin Kumar Gupta	Design and analysis of SPR-based refractive index sensor with enhanced sensitivity based on graphene/BP heterostructure	Optical and Quantum Electronics 1572-817X 10.1007/s11082-024-06933-3	56, 2024, 1323	SCIE, IF: 4.0
15.	Akshita Gupta, Sachin Kumar Gupta	Unmanned aerial vehicles in collaboration with fog computing	International Journal of Communication Systems 1074-5351	37(9), 2024, e5759	SCIE, IF: 1.8

		network for improving quality of service	10.1002/dac.5759		
16.	Amit Kant Pandit, AshutoshVasisth	A genetic programming-based credit risk assessment model	International Journal of Business and Globalisation 1753-3635 10.1504/IJBG.2025.146480	40(3) , 2025,201-209	SCOPUS
17.	Amit Kant Pandit, SeemaJangra	New Trust Based Smart Data Forwarding Mechanism in Vehicular Delay Tolerant Network	Journal of Machine and Computing 2788-7669 10.53759/7669/jmc202404077	4(4), 2024, 830-840	SCOPUS
18.	Vikram Singh, TabassumKhurshid	Low power and energy efficient design of ternary D-latch based on CNTFET-RRAM technology	International Journal of Information Technology (Singapore) 2511-2104 10.1007/s41870-024-02135-y	16, 2024, 4887-4893	SCOPUS
19.	Amina Khan, Sumeet Gupta, Sachin Gupta	UAV-Enabled Disaster Management : Applications, Open Issues, And Challenges	GMSARN International Journal 1905-9094	18, 2024, 44-53	SCOPUS
20.	AamirSuhailTaray, Satyendra Kumar Singh, Yogesh Singh,	Design and power optimization of a QCA-	Microelectronics Reliability 159, 115446	159, 2024, 115446	SCIE, IF: 1.9

	Farah Naaz, Purnima Hazra	based universal reversible logic gate architecture using cell interaction approach	1872-941X https://doi.org/10.1016/j.microrel.2024.115446		
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Conferences/Workshops/Seminars/Short term Courses/FDP/MDPs/Attended/Presented (2024-2025)

Sl. No	Name of the Faculty	Title of the Seminar/Conference/Workshop and Dates & Year	Title of the Talk (if presenter)	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker Or Simply Attended	National / International (abroad) / International (within the country) / State/University
1	Dr. Purnima Hazra	First International Conference on Smart Computing and Communication for Sustainable Convergence (ISCCSC 2024), Punjab, India, October 18th, 2024	Quality management system for automated product sorting using PLC	CRC Press	Paper Presenter	International
2	Dr. Purnima Hazra	First International Conference on Smart Computing and Communication for Sustainable	Automatic water tank level monitoring and	CRC Press	Paper Presenter	International

		Convergence (ISCCSC 2024), Punjab, India, October 18th, 2024	controlling system using PLC and sensors			
3	Prof.Sumet Gupta	International Conference on Communication, Computing and Signal Processing, IICCCS 2024	Smart Card-Based Mutual Authentication Mechanism for UAV Networks	IEEE	Paper Presenter	International
4	Prof.K.R.Jha	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Miniaturized Tunable Bandpass Filter for Sub-1 GHz Band Applications	IEEE	Paper Presenter	International
5	Prof.K.R.Jha	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	An Ultrawide Band 5G Millimeter Wave Antenna Using Square Loop Ring Resonators	IEEE	Paper Presenter	International
6	Prof.K.R.Jha	2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science	Wideband Frequency Selective Surfaces-Based Absorber with Improved Bandwidth	IEEE	Paper Presenter	International

		Meeting (AP-S/INC-USNC-URSI)	-to-Thickness Ratio			
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Conferences/ Seminars /Workshops/FDPs/MDPs Organized (2024-2025)

S N o.	Title of the Seminar/Conference/Workshop/Etc. and Dates & Year	Organiser's Name	Role	Organizing agency	National/ International / Regional
1	Faculty Induction Program (17 Feb-19 March 2025)	UGC	Coordinator	UGC	National
2	Faculty Induction Program 2nd June-30th June 2025	UGC	Co-Coordinator	UGC	National
3	NEP - Orientation & Sensitization 13-23 January 2025	UGC	Coordinator	UGC	National
4	Short Term Training Program in Emerging Technologies 17-22 February 2025	UGC	Coordinator	UGC	National
5	NEP Orientation & Sensitization 8-18 June 2025	UGC	Co-Coordinator	UGC	National
6	National Workshop Chip Champs- 23-24 November 2024	SMVDU	Coordinator	SMVDU	State
7	CSR Activities for Educational enrichment of students 18th November 2024	SMVDU and LPU	Coordinator	SMVDU and LPU	State
8	Virtual labs IIT Roorkee 25th April 2025	IIT Roorkee	Organizing Secretary, Convener, Coordinator	IIT Roorkee	local
9	ANTIC-2024		TPC Member	Springer	International
10	National workshop on Chip Champs-1	SOECE, SMVDU	Co-Coordinator	-	National

11	CSR Activities for Educational Enrichment of Students	SOECE, SMVDU	Co-Coordinator	-	National
12	Skill Development Program	SMVDU	Coordinator	HED, J&K, India	National
13	One Day Workshop on Academic and Administrative Audit	SMVDU	Coordinator	PM USHA	Local
14	9th International Conference on Recent Trends in Computer Science and Engineering (RTCSE) and 03-05 January 2025	-	Advisory/Steering Committee Members	University of Hawaii, Honolulu USA	International
15	2nd International Conference on Blue Green Technologies (Online and In-Person Conference)6	-	Advisory/Steering Committee Members	University of Hawaii, Honolulu USA	International
16	10th International Conference on Recent Trends in Computer Science and Engineering (RTCSE)	-	Advisory/Steering Committee Members	Faculty of Information Technology, Yarsi University, Jakarta, Indonesia	International
17	IEEE International Conference CICON 2025	-	TPC member	NIT Goa, India	International
18	Indonesian Journal of Electrical Engineering and Computer Science (IJECS)	-	Reviewer/TPC member		International
19	International Conference MPCON 2025	-	TPC member	Manipal College of Pharmaceutical Sciences Manipal Academy of Higher Education	International

				Manipal 576104, Karnataka, India	
20	IEEE International conference NEPCON 2025	-	TPC member	IEEE Nepal Section and IEEE MP section	Internation al
21	IEEE R10 Flagship conference TENCON 2025	-	TPC member	IEEE R10 and IEEE Malaysia at Malaysia	Internation al
22	The International Journal of Computing and Digital Systems (IJCDS)	-	Reviewer/TPC member	Scopus Indexed published by University of Bahrain	Internation al
23	International Conference ICAC 2024	-	TPC member	SoA Deemed University, Bhubanesw ar and Springer	Internation al
24	IEEE 6thInternational conference ICCSCT 2025	-	TPC member	IEEE China Council	Internation al
25	International conference SCOPE 2025	-	Reviewer, TPC	Centurion university Odissa	Internation al
26	3rd International conference CISES 2025	-	TPC	GL Bjai ITM Delhi	Internation al
27	IEEE International conference DELCON2025	-	Reviewer	IEEE Delhi Section	Internation al
28	International conference ICFIC 2025	-	Reviewer	SoA Deemed University,	Internation al

				Bhubaneswar and Springer	
29	Special Session convener in ICPCT	-	Special Session ConvenerCoordinator	GLBITM Noida	International
30	4th IEEE International conference ICAIC	-	Session Chair	University of Houston TX USA	International
31	Training Program Non-Teaching Upgradation of Computer Skill_I	-	Trainer Speaker	DQA SMVDU	Internal
32	Training Program Non-Teaching Upgradation of Computer Skill_II	-	Trainer Speaker	DQA SMVDU	Internal
33	One week STTP	-	Coordinator	UGC MMTC SMVDU	National
34	One week STTP	-	Speaker	UGC MMTC SMVDU	National
35	Workshop on Best Practices in Administrative Procedures	-	Coordinator	DQA	
36	Guest Lecture “Connected Cars- Safe and Enhanced Driving Experience”	-	Organizer	University	
37	National Workshop on “ CSR Activities for Educational Enrichment of Students” at SoECE SMVDU	-	Co-Coordinator	University Funds	National
38	National Workshop on Chip Champs-I at SoECE SMVDU	-	Coordinator	University Funds	National
39	Debate Competition on “ Nasha Mukh Bharat Abhiyan” on 08th Feb, 2025	-	Coordinator and Jury	Jammu & Kashmir Police	National