

## Faculty Detail

**Name :** Dr. Shruti Jain

**Designation :** Associate Dean (Innovation) and Professor

### Biography

Dr. Shruti Jain is an Associate Dean (Innovation) and Professor in the Department of Electronics and Communication Engineering at the Jaypee University of Information Technology, Waknaghat, H.P., India. She has received her Doctor of Science (D.Sc.) in Electronics and Communication Engineering. She has teaching experience of around 19 years. She has filed eighteen patents, of which six have been granted and twelve have been published. She has published more than 31 book chapters and 150 research papers in reputed indexed journals (with IF ~ 75) and international conferences. She has also published 21 books. She has completed two government-sponsored projects. She has guided 08 Ph.D. students and now has 06 registered students. She has also guided 16 M.Tech. scholars and more than 125 B.Tech. undergrads. She has organized 17 conferences of IEEE and Springer as Conference General Chair. Her research interests are image and signal processing, soft computing, the Internet of Things, pattern recognition, bio-inspired computing, and computer-aided design of FPGA and VLSI circuits. She is a Joint Secretary of the IEEE Delhi Section, a Subcommittee member of IEEE India Council WIE, a senior member of IEEE, a life member and Executive member of the Biomedical Engineering Society of India, and a member of IAENG. She is a member of the editorial board of many reputed journals. She is also a reviewer of many journals and a member of the TPC of different conferences. She was awarded the Nation Builder Award in 2018-19 and enlisted in the 2% of scientists in the world rankings of 2021, 2023, 2024 and 2025 published by Elsevier, data compiled by Stanford University.



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Affiliations:

Sr. Member IEEE (90530491),

Life Member IAENG (112391),

Biomedical Engineering Society of India, LM-1095

SCIREA Journal of Computer, 802317

FORCE Biomedical, FB - M - 19 - 000732

**Contact Number:** 01792 239262, +91- 9318039036

### ACADEMIC PERFORMANCE

Degree/Diploma	Board/University	Performance	Year
D. Sc.	GLA University, Mathura	Completed	2014 – 2020

PhD (ECE)	JUIT, Wagnaghat, Solan	Completed	2008 –2012
M.Tech(ECE)	Rajasthan Vidyapeeth (Deemed University)	71.9%Agg.	2005 –2007
B.Tech (Electronics)	Haryana Engg College, Jagadhri (Kurukshetra University)	81.28% Agg	2000 –2004
12 <sup>th</sup>	CBSE, Ambala	82.2% Agg.	2000
10 <sup>th</sup>	CBSE, Ambala	72.4% Agg.	1998

Webpage : <http://www.juit.ac.in/faculty.php?id=155&dep=ece&page=0>

GOOGLE SCHOLAR : <https://scholar.google.co.in/citations?user=AIV68TgAAAAJ>

SCOPUS ID : <https://www.scopus.com/authid/detail.uri?authorId=7404324730>

ORCID ID : <http://orcid.org/0000-0002-7538-0584>

RESEARCHER ID :C-8263-2015

PUBLONS : [https://publons.com/a/1487672\\_jain.shruti15@contact.publons.com](https://publons.com/a/1487672_jain.shruti15@contact.publons.com)  
<https://publons.com/researcher/1487672/shruti-jain/>

VIDWAN : [https://vidwan.inflibnet.ac.in/myprofile#honours\\_information\\_panel](https://vidwan.inflibnet.ac.in/myprofile#honours_information_panel)  
<https://vidwan.inflibnet.ac.in/profile/173845>

PH.D. Thesis : <http://shodhganga.inflibnet.ac.in:8080/jspui/handle/10603/11161>

Entitled “Communication of Signals and Responses Leading to Cell Survival/ Apoptosis Using Engineered Regulatory Networks”.

D.Sc. Title “Computational Modeling and Simulation of HT- Carcinoma Cells for Diagnosis of Cell Survival/Death”

Cumulative SCI Impact Factor: 75

#### Citation Indices

Google Scholar	Citation indices	All	Since 2017
	Citations	3239	2533
	H-index	25	23
	i10-index	94	69
Scopus	Citation indices	All	
	Citations	2035	
	H-index	21	

#### JOB EXPERIENCE: 19 years

- 1) Working as **ASSOCIATE DEAN(Innovation)** in Jaypee University of Information Technology, Wagnaghat from 15/06/2022 to Present.
- 2) Working as **PROFESSOR** in Jaypee University of Information Technology, Wagnaghat from 15/04/2022 to Present.

- 3) Working as **ASSOCIATE PROFESSOR** in Jaypee University of Information Technology, Waknaghat from 30/09/2016 to 15/04/2022.
- 4) Worked as **ASST. PROFESSOR** in Jaypee University of Information Technology, Waknaghat from 01/07/2012-30/09/2016.
- 5) Worked as **SR.LECTURER** in Jaypee University of Information Technology, Waknaghat from 01/07/2010-01/07/2012.
- 6) Worked as **LECTURER** in Jaypee University of Information Technology, Waknaghat from 15/04/2008 to 01/07/2010.
- 7) Worked as **LECTURER** in Ambala College of Engineering & Applied Research, Devasthali from 13/07/2005 TO 25/02/2008
- 8) Worked as **LECTURER** in Haryana Engineering College from 13/08/2004 to 21/05/2005 AND 02/07/2005 to 13/07/2005

### Research Projects and Consultancy Works:

S. No.	Title of Research Project/ Consultancy Work	Details of Sponsoring Agency	Duration, Sanction Date & Status	Amount Sanctioned	Chief or Co Investigator Specify	Status
1	Fabrication of Energy Harvesting Prototypes Using Piezoelectric Materials	Government of India , Ministry of Defence, Defence Research & Development OrganisationDefence Institute of High Altitude Research(DIHAR)	2 years 2012-15	Rs. 9.68 lakhs	Dr. P.K. Naik	Completed
2	Design and Analysis of a Thermoelectric Generator for Energy Harvesting System from Waste Heat for the State of Himachal Pradesh	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE), H.P.	2 years 2017-20	Rs 5.24 lakhs	Dr. Meenakshi Sood	Completed
3	7 <sup>th</sup> ISPC conference	DRDO	2021	Rs 50,000	Dr.Harsh Sohal	Completed
4	“DRISHTI” – IEEE SIGHT JUIT	IEEE, SIGHT, 2022	2020	250 \$		Ongoing
5	Hardtec/Softec Workshop	IEEE R10 PAC,	6 months Aug-Dec 2022	1000\$	Dr. Rashmi Agarwal	Completed
6	IEEE Industry Academia Partnership Program (IEEE – IAPP)	IEEE R10 MDC	6 months Aug-Dec 2022	660\$		Completed
7	2 <sup>nd</sup> ETBS conference	Council of Scientific and Industrial Research (CSIR)	Sept 2022- Jan 2023	Rs 30,000/		Completed
8	AI Based adaptive and Effective learning	DRID, JIIT	1 year 2023-24	Rs 1 lakhs	Dr. Tirath Raj Singh	Ongoing
9	One week Workshop on Robo-Race and Robo-Wars	IEEE R10 EAC EA Project Development Grant	6 months Aug- Dec 2023	780\$	Dr. Sunil Khah	Completed
10	One week Workshop on Drone Applications and Assembling	IEEE R10 EAC EA Project Development Grant	6 months Aug- Dec 2023	780\$		Completed

11	One week Workshop on DIGITAL LEARNING TO EMPOWER RURAL WOMEN & GIRLS	IEEE R10 EAC EA Project Development Grant	6 months Aug- Dec 2023	800\$	Dr. Rashmi Agarwal	Completed
12	Two day workshop on Smart Living: Harnessing Sensor Fusion for Home Automation	IEEE R10 EAC EA Project Development Grant	6 months Aug- Dec 2024	600\$		Completed
13	One week Workshop on Augmented Reality (AR) Development	IEEE R10 EAC EA Project Development Grant	6 months June- Nov 2025	1000\$	Dr. Vikas Baghel	Accepted
14	CyberShield: Empowering Women in the Digital World	IEEE R10 EAC EA Project Development Grant	6 months Aug- Dec 2025	1550\$	WIE, IEEE JUIT SB	Accepted
15	One-week workshop on VLSI physical design and layout	IEEE R10 EAC EA Project Development Grant	6 months Aug- Dec 2025	1600\$	Prf. Prerna Gaur and Prof. Jasdeep Dhanoa	Accepted

### Patent Granted/ Published/Filled :

S. No.	Title of Research	Members	Application No
<b>Granted</b>			
1	Energy Harvesting Footwear	Ritendra Mishra, Dr Sunil Kumar Hota, Dr C Durgaprasad, Dr <b>Shruti Jain</b> , Col. Vasant Ballewar, Dr R B Srivastava	Patent Application number 325/DEL/2015 Patent No :339820 Date of Award : 29/06/2020
2	Internet of Things (IoT) based infrared health monitoring system for newborn babies	Vivek Sehgal, <b>Shruti Jain</b> , Harsh Sohal, Aman Sharma, ShubhamGoel , Ramesh Panda  <a href="https://register.dpma.de/DPMAREgister/pat/register?AKZ=2020221029261">https://register.dpma.de/DPMAREgister/pat/register?AKZ=2020221029261</a>  <a href="https://register.dpma.de/DPMAREgister/pat/PatSchrifteneinsicht?docId=DE202022102926U1&amp;page=1&amp;dpi=300&amp;language=de">https://register.dpma.de/DPMAREgister/pat/PatSchrifteneinsicht?docId=DE202022102926U1&amp;page=1&amp;dpi=300&amp;language=de</a>	20 2022 102 926.1 Application No :2022052609014300DE Filed on :May 26, 2022 Registration date : June 24, 2022
3	A Multiplexer based MAC architecture Implementation on FPGA	Rajkumar Sarma, Cherry Bhargava & <b>Shruti Jain</b>	Patent Application Number: 202011026964 Patent No : 508365 Date of Award : 08/02/2024
<b>Designs Granted</b>			
1	Shruti Jain, Meenakshi Sood, Pramod Kumar	Water Heaters	387868-001 Cbrno : 207133 Journal No is 14/2024 and Journal Date is 05/04/2024

2	Aman Sharma, Shruti Jain, and Sunil Khah	Portable Barcode Scanner	416819-001 Cbr no : 208187 Journal No is 30/2024 and Journal Date is 26/07/2024
3	Vikas Baghel, Nishant Jain, Shruti Jain	Solar powered go cart	417763-001 Cbr no : 208864 Journal No is 36/2024 and Journal Date is 06/09/2024
<b>Published</b>			
1	N-Bit Compressor Based Multiplier Circuits	Rajkumar Sarma, Cherry Bhargava, Sandeep Dhariwal, & <b>Shruti Jain</b>	TEMP/E-1/23170/2018-DEL Patent Application Number: 201811022936. Published on: July 26, 2019 Examination Filled on : Dec 20, 2021
2	Artificial Intelligence and Voice Based Patients Monitoring System	SriRamManish Kumar, Firos A, Aruna M, <b>Shruti Jain</b> , Meenakshi Sood, Samson Isaac, Siva Sathyanarayana, Satheesh Gopiseti, Prabakaran R, Thamaraiselvam S, Sabarimuthu M	TEMP/E-1/53405/2020-CHE Patent Application Number: 202041048080 Published on : Nov 13, 2020
3	Shruti Jain, Yugal Kumar, Jagpreet Sidhu , Arvinder kaur	An IoT-Based Automated DIY Drip Irrigation And Pest Control	Patent Application Number: 202311008596 Published on : Feb 17, 2023 Request for Examination : July 07, 2023
4	Archit Kaushal, Shruti Jain, Sudhir Kumar, Aman Sharma, Saurabh Rawat	Method of Fabrication and arrangement of Anti-Glare Glass for Avoiding accidents of Road	202311029769 Published on : May 26, 2023 Reply to FER : June 03, 2024
5	Anmol Goyal, Vansh Bansal, Himanshu Jindal, Shruti Jain, Monika Bharti	Real-Time Monitoring and Identification System for Diabetic Retinopathy with Remote Consultation Capability	202311041412 Published on : July 21, 2023 Under Examination
6	Shruti Jain, Meenakshi Sood, Pramod Kumar	Household Waste Heat Harvesting System for Energy Generation	202311047900 Published on : Aug 11, 2023 FER Issued
7	Tushar Paul, Priyansh Garg, Rohit Raj, Shruti Jain	Integrative Water Quality Monitoring System: IoT Sensors, ML Analysis, and LLM Guidance for Real-Time Potability Assessment and Sustainable Water Management	202411005596 Published on : February 09, 2024 Reply Filed. Application in amended examination (Aug 29, 2025)
8	Pranjal Thakur, Aditya sood, Prateek Thakral, Shruti Jain	Dynamic gesture-based control system for interactive presentations with real-time adaptive zoom and annotation capabilities	202411054528 July 17, 2024 Under Examination
9	Devank Kansal, Saksham Mittal, Vikas Baghel, and Shruti Jain	A System and a method to display and navigate images using Voice Commands	202511025087 April 4, 2025 Application Awaiting Examination
10	Faraz Khan, Sunil Singh, Kanak Soni, Anthony Rose, Kavita Sharma, Pawan Kumar Chaurasia, Navdeep Kaur, Shruti Jain, Pooja Goyal	AI-Integrated Language Translator Glasses	439370-001 Cbr : 03/12/2024
11	Nishant Jain, Vikas Baghel, Shruti Jain	A system and method for Intelligent Dermatological analysis and personalized Skincare Recommendation	202511095799 October 06, 2025
12	Naresh Rana, Shruti Jain, Sunil Khah	Medical Patch For Kidney Cancer Detection.	475715-001 Cbr No : 221892 October 03, 2025

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### Copyright :

S. No.	Title of Research Project	Members	Application No
1	A Handbook to Use Digital Circuit Simulation Tools	Rajkumar Sarma, Cherry Bhargava & Shruti Jain	L-83855/2019 08/07/ 2019
2	Novel Signed Floating-Point MAC (SFMAC) Architecture	Rajkumar Sarma, Cherry Bhargava & Shruti Jain	L-91179/2020 06/05/2020
3	Universal Compressor-Based Multiplier (UCM) Architecture	Rajkumar Sarma, Cherry Bhargava & Shruti Jain	L-94212/2020 28/08/2020

### Evaluator:

University Grants Commission (UGC) research schemes for the year 2022-23 :

1. Dr. D.S. Kothari Research Grant for Newly Recruited Faculty Member
2. Research Grant for In-Service Faculty Members 2022.

Major project evaluation (ECE), University Institute of Technology (UIT), Summer Hill, Shimla-171005, March 10, 2023.

**UGC Program :** Attended one-day Women Leadership Program entitled "Women Leaders : Shaping Academic Excellence for VIKSIT Bharat@2047" organized by the University Grants Commission on 13th December 2024, at Dogra Hall, IIT Delhi.

**AICTE Program :** Successfully participated in the Master class series under IP Utsav, organized virtually by the All India Council for Technical Education (AICTE) and Ministry of Education's Innovation Cell (MIC) from April 21- 26, 2025.

### Mentor- Mentee :

1. Professional Mentoring Program (PMP) 2025, organized by the IEEE India Council Industry Academia Young Professionals Committee (IAYPC 2025) from six-month journey (from 20th August to 20th December 2025).
2. Professional Mentoring Program (PMP) 2024, organized by the IEEE India Council Industry Academia Young Professionals Committee (IAYPC 2024) from six-month journey (from 20th August to 20th December 2024)

**Conference Attended :** **38th International Conference on VLSI Design & 24th International Conference on Embedded Systems (VLSID 2025)** VLSI Design Conference 2025 held at **The Leela Palace, Bengaluru**, from **4th-8th January 2025**.

### Selected as

- i. IEEE day Ambassador 2025
- ii. IEEE WiE Ambassador 2025
- iii. IEEE R10 ACEI Ambassador 2025

### Guest Editor :

1. Call for book Chapters: Hybrid Soft Computing Techniques for Machine Learning and Optimization <https://www.igi-global.com/publish/call-for-papers/call-details/7608>
2. Shruti Jain, Nikhil Marriwala, “IoT enabled Wireless Biomedical Systems and Sensors” ,Special Issue on Measurements Sensor <https://www.sciencedirect.com/journal/measurement-sensors/special-issue/10RWVFG1TMZ>  
<https://www.sciencedirect.com/science/article/pii/S2665917423000867>
3. Sudip Paul, Shruti Jain, “Modern Technological Intervention in Healthcare: Vol 1”, Special Issue on Measurements Sensor <https://www.sciencedirect.com/journal/measurement-sensors/special-issue/10SV36HVLC4>
4. Sudip Paul, Shruti Jain, “Sensor-based Wireless Biomedical Systems for Health Technologies”, Special Issue on Measurements Sensor <https://www.journals.elsevier.com/measurement-sensors/call-for-papers/sensor-based-wireless-biomedical-systems-for-health-tech>  
<https://www.sciencedirect.com/journal/measurement-sensors/special-issue/10NS2QPNDJ0>
5. Dinesh Kumar, Shruti Jain, Amit Kumar Manocha, Ram Sewak Singh, “Intelligent Healthcare Systems for Sustainable Development”, Special Issue on International Journal of Computer Applications in Technology, Inderscience.  
<https://www.inderscience.com/info/ingeneral/cfp.php?id=5187>
6. Shruti Jain, Meenakshi Sood, “Emerging Technological Paradigms in Engineering”, Special Issue for Recent Patents on Engineering  
<https://benthamscience.com/journal-files/special-issue-details/RPENG-SII20190211-01.pdf>
7. Meenakshi Sood, Shruti Jain, “Advances in Wireless Communication, Networks and Automation”, Special Issue for International Journal of Sensors, Wireless Communications and Control  
<https://benthamscience.com/journal-files/special-issue-details/ISWCC-SII20190130-01.pdf>

#### **Books Written :**

1. Nikhil Kumar Marriwala , Shruti Jain, Vinod Kumar Shukla, Dinesh Kumar, Hybrid Soft Computing Techniques for Machine Learning and Optimization, April, 2025, DOI: 10.4018/979-8-3693-6864-0, ISBN13: 9798369368640. <https://www.igi-global.com/book/hybrid-soft-computing-techniques-machine/346220>
2. Shruti Jain, Nikhil Maraiwalla, P. William, Dinesh Kumar, Advancements in Generative Artificial Intelligence , Lecture Notes in Networks and Systems(LNNS), ISBN : 978-981-96-6094-0  
<https://link.springer.com/book/9789819660940>
3. Nikhil Marriwala, Vinod Kumar Shukla, Shruti Jain, Dinesh Kumar, Sunil Dhingra, Mobile Radio Communications and 5G Networks Proceedings of fifth MRCN 2024, Lecture Notes in Networks and Systems, Series, iISBN : 978-981-96-4225-0  
<https://link.springer.com/book/9789819642250>
4. Shruti Jain, Nikhil Maraiwalla, Pushpendra Singh, C.C. Tripathi, Dinesh Kumar, Emerging Convergent Technologies and Biological Systems (ETBS 2023), Lecture Notes in Electrical Engineering, ISBN 978-981-99-8646-0, ISSN : 1876-1100  
<https://link.springer.com/book/10.1007/978-981-99-8646-0>
5. Nikhil Maraiwalla, Sunil Dhingra, Shruti Jain, Dinesh Kumar, Mobile Radio Communications and 5G Networks Proceedings of fourth MRCN 2023, Lecture Notes in Networks and Systems, Series, ISBN : 978-981-97-0699-0  
<https://link.springer.com/book/9789819706990><https://link.springer.com/book/10.1007/978-981-97-0700-3>
6. Shruti Jain, Nikhil Maraiwalla, C.C. Tripathi, Dinesh Kumar, Emerging Convergent Technologies and Biological Systems (ETBS 2022), Lecture Notes in Electrical Engineering, ISBN 978-981-99-2270-3, ISSN : 1876-1100  
<https://link.springer.com/book/9789819922703>
7. Nikhil Maraiwalla, C.C. Tripathi, Shruti Jain, Dinesh Kumar Mobile Radio Communications and 5G Networks Proceedings of Third MRCN 2022, Lecture Notes in Networks and Systems, Series, ISSN: 2367-3370, ISBN – 978-981-19-7981-1, 522993  
DOI : 10.1007/978-981-19-7982-8.  
<https://link.springer.com/book/9789811979835#book-header>  
<https://link.springer.com/book/10.1007/978-981-19-7982-8#toc>

8. NikihilMaraiwalla, Shruti Jain, C.C. Tripathi, ShivakumarMathapathi, Emerging Convergent Technologies and Biological Systems (ETBS 2021), Lecture Notes in Electrical Engineering, ISSN1876-1100, ISBN - 978-981-16-8773-0  
<https://link.springer.com/book/9789811687730>  
<https://link.springer.com/book/10.1007/978-981-16-8774-7>
9. NikihilMaraiwalla, C.C. Tripathi, Shruti Jain, Dinesh Kumar Proceedings of MRCN 2021, Lecture Notes in Networks and Systems, Series ISSN 2367-3370, ISBN – 978-981-16-7017-6  
<https://link.springer.com/book/9789811670176>  
<https://doi.org/10.1007/978-981-16-7018-3>
10. Ayodeji Olalekan Salau, Shruti Jain, Meenakshi Sood, “Paradigms in Computational Intelligence and Data Sciences”, CRC, Taylor & Francis Group, U.K.ISBN:9781032123134  
<https://www.taylorfrancis.com/books/edit/10.1201/9781003224068/computational-intelligence-data-sciences-ayodeji-olalekan-salau-shruti-jain-meenakshi-sood?refId=e41e0594-94ed-4252-8eff-e2eadc523720&context=ubx>
11. Rajiv Kumar, Shruti Jain, Harsh Sohal “Signal Processing, Computing and Control”, IEEE, 2021, ISBN 978-1-6654-2554-4  
<https://ieeexplore.ieee.org/xpl/conhome/9609332/proceeding>  
978-1-6654-2554-4/21/\$31.00 ©2021 IEEE, DOI: 10.1109/ISPC53510.2021.9609466
12. Shruti Jain, Sudip Paul, “Assistive Technology Intervention in Healthcare”, CRC, Taylor & Francis Group, U.K.ISBN : 9781032075976  
<https://www.routledge.com/Assistive-Technology-Intervention-in-Healthcare/Jain-Paul/p/book/9781032075976>
13. Amit Manocha, Mandeep Singh, Shruti Jain, Vishal Jain, Smart Computational Intelligence in Biomedical and Health Informatics, CRC, Taylor & Francis Group, U.K., 2022, ISBN 9780367624125  
<https://www.routledge.com/Smart-Computational-Intelligence-in-Biomedical-and-Health-Informatics/Manocha-Singh-Jain-Jain/p/book/9780367624125>  
<https://www.taylorfrancis.com/books/edit/10.1201/9781003109327/smart-computational-intelligence-biomedical-health-informatics-amit-kumar-manocha-mandeep-singh-shruti-jain-vishal-jain>
14. NikihilMaraiwalla, C.C. Tripathi, ShivakumarMathapathi, Shruti Jain, Soft Computing for Intelligent Systems (SCIS 2020).“Algorithms for Intelligent Systems”.ISBN : 978-981-16-1047-9, eISBN : 978-981-16-1048-6, doi: 10.1007/978-981-16-1048-6  
<https://www.springer.com/in/book/9789811610479>  
<https://link.springer.com/book/10.1007/978-981-16-1048-6>
15. Amit Manocha, Shruti Jain, Mandeep Singh, Sudip Paul, “Computational Intelligence in Healthcare”, Health Information Science- Springer Book Series. ISBN : 978-3-030-68722-9, eISBN : 978-3-030-68723-6, 2021  
<https://www.springer.com/gp/book/9783030687229>
16. C.C. Tripathi, NikihilMaraiwalla, Dinesh Kumar, Shruti Jain, “Mobile Radio Communications and 5G Networks 2020, Springer, Singapore, ISBN 978-981-15-7129-9.  
<https://www.springer.com/gp/book/9789811571299>  
<https://www.springer.com/gp/book/9789811571299#bibliographic>  
<https://www.springer.com/gp/book/9789811571299#aboutBook>
17. Shruti Jain, Sudip Paul, “Recent Trends in Image and Signal Processing in Computer Vision”, Springer, ISBN 978-981-15-2740-1, 2020,  
DOI: [10.1007/978-981-15-2740-1](https://doi.org/10.1007/978-981-15-2740-1)  
<https://www.springer.com/in/book/9789811527395>  
<https://link.springer.com/book/10.1007%2F978-981-15-2740-1#editorsandaffiliations>
18. Shruti Jain, Meenakshi Sood, Sudip Paul, “Advances in Computational Intelligence Techniques”, Springer,ISBN 978-981-15-2620-6, 2020  
<https://link.springer.com/book/10.1007%2F978-981-15-2620-6>  
<https://www.springer.com/in/book/9789811526190>
19. Shruti Jain and Meenakshi Sood“Signal Processing, Computing and Control”, IEEE, 2019, ISBN 978-1-7281-3986-9 (Print), ISBN: 978-1-7281-3988-3 (XPLORE Compliant)  
<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8988451>  
<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8988347>
20. Meenakshi Sood and Shruti Jain,“Signal Processing, Computing and Control”, IEEE, 2017, ISBN 978-1-5090-5837-2  
<https://ieeexplore.ieee.org/xpl/conhome/8258908/proceeding>  
<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8269572>
21. Shruti Jain,“Synthetic Biology : Towards Digital Circuit” –VDM Veralag , Mauritius, 2011.



ISBN-10 : 9783639338119

<https://www.amazon.in/Synthetic-Biology-Towards-Digital-Circuits/dp/3639338111>

## PROFESSIONAL MEMBERSHIP

**Senior Member**, Institute of Electrical and Electronics Engineers (*IEEE*) 90530491

**Member**, International Association of Engineers (*IAENG*) 112391

**Life Member**, Biomedical Engineering Society of India, LM-1095

**Senior Member**, SCIREA Journal of Computer, 802317

**Member**, FORCE Biomedical, FB – M – 19 – 000732

**Member**, Asian Council of Science Editors, 91.17334

**QS Global Academic Survey Member** 2017, Maharishi Markandeshwar University, Mullana

## AWARD :

1. Enlisted in the top 2% scientist of world rankings of 2024 published by Elsevier, data compiled by Stanford University.
2. Enlisted in the top 2% scientist of world rankings of 2023 published by Elsevier, data compiled by Stanford University.
3. Received best paper award for paper titled “Recognition System for Malarial Parasites Causing Protozoa Infections in Thin Blood Smears”, in the IEEE INDISCON-2023, organized by IEEE Mysore Subsection at GSSS Institute of Engineering & Technology for Women, during 5 -7 August, 2023 in association with IEEE India Council and IEEE Bangalore Section, authored by Himanshu Sharma (B.Tech. CSE & IT, passout 23 batch), Amol Vasudeva, Shruti Jain.
4. Enlisted in the top 2% scientist of world rankings of 2021 published by Elsevier, data compiled by Stanford University.  
<https://elsevier.digitalcommonsdata.com/data.../btchxktzyw/3>
5. International Scientist Awards on Engineering, Science, and Medicine, Sep 10-11, 2021 in Coimbatore, India .
6. Appointed as Executive member in IEEE Delhi section <https://ewh.ieee.org/r10/delhi/>
7. Appointed as Executive Committee member of Biomedical Engineering Society of India (BMESI) : Dr Shruti Jain, Member# L1095 for 2021-23 session.
8. Awarded honorary “Rosalind Member of London Journals Press”, Membership ID#LD66484 for research paper titled “*Instance-Based Learning of Marker Proteins of Carcinoma Cells for Cell Death Survival*” on July 05, 2020.
9. Best Electrical & Electronic Engineering Paper in 2019, for An image feature selection approach for dimensionality reduction based on kNN and SVM for Akt proteins by Cogent Engineering.  
<https://www.cogentoa.com/collection/cogent-engineering-best-paper-awards-2019>
10. Awarded honorary “Rosalind Member of London Journals Press”, Membership ID#WK14138 for research paper titled “*Comparative Analysis of Various Image Fusion Techniques for Brain Magnetic Resonance Images*” on May 19, 2020.
11. Awarded “Quarterly Franklin Membership”, Membership ID# HS75601; given by Editorial Board of London Journals Press (2020) for research paper titled, “*An Image Feature Selection Approach for Dimensionality Reduction Based on kNN and SVM for AKT Proteins*” on Feb 26, 2020.
12. Appointed as Editor in Chief of ENGMEDNEWS (bimonthly newsletter) : Dr Shruti Jain, Member# L1095 for 2019-21 session
13. “Nation Builder Award” on the occasion of Teacher’s Day / International Literary Day by Rotary Club Shimla, September 2018.

14. Certificate of Appreciation for mentoring project submitted to Texas Instruments Innovation Challenge India Design Contest 2015.
15. Certificate of Appreciation for mentoring project submitted to Envision: the Product Design Competition held during Entrepreneurship Summit 2009.
16. Certificate of Appreciation for mentoring project submitted to Himachal Tourism entitled “ Himglancer – A Tourism Oriented Map Application”.

### Ph.D. Students Supervised :

S.No	Name of Student	Title	University
1.	Mr. Ritendra Mishra (126003) Jan 21, 2017 JUIT/WKG/2016-17/012	Energy Harvesting Using Piezoelectric Elements to Power Microelectronic Devices <a href="http://shodhganga.inflibnet.ac.in/handle/10603/165981">http://shodhganga.inflibnet.ac.in/handle/10603/165981</a>	Jaypee University of Information Technology, Solan
2.	Ms. Jyotsna Dogra (166004) June 09, 2020	An Automatic Glioma Detection and Extraction Framework for the Removal of Shrinkage in Segmentation <a href="https://shodhganga.inflibnet.ac.in/handle/10603/304121">https://shodhganga.inflibnet.ac.in/handle/10603/304121</a>	Jaypee University of Information Technology, Himachal Pradesh, India <a href="http://www.ir.juit.ac.in:8080/jspui/handle/123456789/23852">http://www.ir.juit.ac.in:8080/jspui/handle/123456789/23852</a>
3.	Mr. Raj Kumar (41400103) June 27, 2020 LPU/DE/DOR/EC/200718/002/1E96/14/0001	Design & Analysis of a Novel Hybrid 8x8 Bit Multiply and Accumulate (MAC) Architecture using Clock Gating Scheme for Pipelined Processing	Lovely Professional University, Ludhiana
4	Ms. Charu Bhardwaj (176005) November 19, 2020 JUIT/WKG/2020-21/012	A Computational Framework for Diabetic Retinopathy severity grading categorization using Ophthalmic Image Processing <a href="https://shodhganga.inflibnet.ac.in/handle/10603/308275">https://shodhganga.inflibnet.ac.in/handle/10603/308275</a>	Jaypee University of Information Technology, Himachal Pradesh, India <a href="http://www.ir.juit.ac.in:8080/jspui/handle/123456789/23862">http://www.ir.juit.ac.in:8080/jspui/handle/123456789/23862</a>
5	Ms Kirti (176006) November 23, 2020 JUIT/WKG/2020-21/013	A Low Power Wearable Electrocardiogram module for Heart rate Variability Classification System <a href="https://shodhganga.inflibnet.ac.in/handle/10603/308269">https://shodhganga.inflibnet.ac.in/handle/10603/308269</a>	Jaypee University of Information Technology, Himachal Pradesh, India <a href="http://122.252.232.85:8080/jspui/handle/123456789/23861">http://122.252.232.85:8080/jspui/handle/123456789/23861</a>
6	Mr. Navdeep Prashar (166005) December 29, 2020 JUIT/WKG/2020-21/017	Electrocardiogram Analysis for Robust Optimal Thresholding System Design <a href="https://shodhganga.inflibnet.ac.in/handle/10603/314200">https://shodhganga.inflibnet.ac.in/handle/10603/314200</a>	Jaypee University of Information Technology, Himachal Pradesh, India <a href="http://www.ir.juit.ac.in:8080/jspui/handle/123456789/23867">http://www.ir.juit.ac.in:8080/jspui/handle/123456789/23867</a>
7	Ms. Garima (196001) November 03, 2022 JUIT/WKG/2022-23/007	Energy-Efficient Approximate Architectures for Error Tolerant Applications <a href="https://shodhganga.inflibnet.ac.in/handle/10603/458288">https://shodhganga.inflibnet.ac.in/handle/10603/458288</a>	Jaypee University of Information Technology, Himachal Pradesh, India

8	Ms. Himani Bhardwaj (206003) Jan 16, 2025 JUIT/WKG/2024-25/013	Design of VLSI Interconnect circuits for Energy Performance optimization	Jaypee University of Information Technology, Himachal Pradesh, India
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#### Ph.D. Students Supervising :

No	Name of Student	Title	University
1	Ms. Anupama (216001) Aug 2021	A Computational Framework for Diagnosis of Cancer Employing Hybrid Multimodal image fusion	Jaypee University of Information Technology
2	Ms. Shivani Aug 2021	Text Classification	Jaypee University of Information Technology
3	Ms Triambica Gautam January 2022	Data Envelopment Analysis	Jaypee University of Information Technology
4	Akanksha Nayyar July 2023	Proteome Analysis	Jaypee University of Information Technology
5	Rohini July 2024	Fake Image detection	Jaypee University of Information Technology
6	Shilpa Kaushal July 2024	Machine learning using FPGA	Jaypee University of Information Technology

#### Postgraduate Students Supervised :

No.	Name of Student	Title
1	Sahil Shrama	Deep Fake Technology
2	Naresh Rana (235042002)	A framework for early stage kidney cancer detection employing deep learning modles and multi patch antenna
3	Prajwal Jagwan (225111001)	Prediction of Protein Biomarkers for <i>Mycobacterium fortuitum</i> using MachineLearning Technique
4	Shan Ghai (225111004)	Analysis of differentially expressed <i>M. fortuitum</i> proteins for biomarker prediction using Support Vector Machine
5	Shilpa Kaushal (162004)	Evaluation of Empirical Wavelet Transforms For Glaucoma Detection Using Fundus Images
6	Garima Thakur (162005)	High Speed Radix-2 Butterfly Structure Using Novel Wallace Multiplier
7	Mr Amandeep (152012)	Classification of Lung Carcinoma using Texture Features of Ultrasound Images
8	Ms. Shreya Sharma (152013)	Support Vector Machine Based Texture Feature Extraction Technique for Classification of Breast Cancer from Ultrasound Images
9	Ms. Radhika (152016)	FPGA Implementation of Arithmetic Operations Using Quaternary Signed Digit
10	Mr. SahilBhusri (142003)	Classification of Breast Lesions for two class using Feature Extraction Techniques.
11	Ms. Shailija Rana (142007)	Analysis and Classification of kidney FOCAL Lesion.
12	Mr Manjeet Singh (132007)	FPGA implementation of High Speed Hybrid CMOS Full adder circuits for Low Power VLSI Design
13	Mr. Sandeep Yadav (112007)	FPGA Implementation of Low Complexity Decoder using LPDC Codes

14	Ms. Suruchi Singh (112016)	Design of Instrumentation amplifier using Operational Transconductance Amplifier and Current Differencing Transconductance Amplifier
15	Mr. Lokesh Kumar (10201)	Design and Implementation of Power Efficient Reconfigurable Fixed Width Baugh-Wooley Multiplier and its Application
16	Mr Hanish Sharma (6594)	Activities of E-Governance in Himachal Pradesh Department of Transport
17	Mr Shantanu Sharma (6564)	Implementation of High Security Vehicles Registration Scheme (Government of Himachal Pradesh)

### Undergraduate Projects Supervised :

S.No.	Year	Name of Student	Title
1	2025	Sambhav Thakur ( 221040001)	Agricultural Monitoring Drone
2		Divyansh Goel (221030387)	Anndam
3	2025	Ansh Singh (221030322) Shreyansh Chaturvedi (221030135)	Student Dashboard
4	2025	Mayank Kumar (211317), Prakhar Varshney(211342), Ansh Mehrotra (211339)	Auto Acad
5	2025	Ansh Singh (221030322) Yash Sharma (221030258) Shreyansh Chaturvedi (221030135)	Student Dashboard Application
6	2024	Aditya Sood (211269) Pranjal Thakur (211402)	Hand-Gesture Controlled Presentation System
7	2024	Avi Jaiswal (211176) Yashashvi Agnihotri (211189)	Bhuvan Generic Framework using Microservices
8	2024	Siddharth (211079) Shubh Saxena (211191) Shivansh Mehrotra(211202)	Graphical Password by Image Segmentation
9	2023-24	Saksham Maini (201004) Manas Jain (201017)	FPGA Implementation of Power Efficient Multiplier
10	2023-24	Siddharth Misra (201179) Priyank Gupta (201103)	Mouseless & Hands Free Computer Interaction
11	2023-24	Mayank Aryaman (201381)	Interactive Dashboard For Student Analysis
12	2023	Adarsh Verma (201309) Amrit Raj (201254)	Plant Leaf Disease Detection using ML
13	2023	Devanshi Vashistha (201293), Sayam puri (201136)	Brain tumor Detection
14	2023	Aryan Kalsi (201192), Tanish Mahajan (201206)	Signature Verification Model
15	2023	Saksham Maini (201004) Manas Jain (201017)	FPGA Implementation of Multipliers for Image/Signal Processing Application
16	2023	Anmol Goyal (201409) , Sejal Thakur (201377)	Diabetic Retinopathy Using Deep Learning
17	2022-23	Varun Katoch (191016) Karan Verma(191022)	Arduino Based BOT for Detection of Leaf Disease
18	2022-23	Himanshu Sharma (191219) Raven Mehta (191303)	Detection of Malarial Parasite in Blood using Image Processing
19	2022-23	Prazwal Thakur (191380)	Spam Detection in Emails using Machine Learning

		Kartik Joshi (191384)	
20	2022-23	Abhishek Kumar (191367) Jayant Sharma (191430)	Adaptive Teaching on Learning for Education
21	2021-22	Vinayak Tiku (181005)	Detection of Diabetic Retinopathy using Digital Image Processing
22	2021 (Even Sem)	Kshitij (181017)	Diagnostic System for Detection of Epilepsy Using Machine Learning
23	2020-21	Sanket Saxena (171008) Shivam Sinha (171019)	Deep learning-based severity prediction for Diabetic Retinopathy
24	2020-21	Bandana Pal (171057) Surya Mahajan (171060)	Detection of Cerebrovascular Diseases Employing Novel Fusion Technique
25	2019-20	Sanket Saxena (171008) Shivam Sinha (171019)	Computer Aided Diagnostic System for Diabetic Retinopathy Based on Fundus Images using Deep Neural Network
26	2019-20	Bandana Pal (171057) Surya Mahajan (171060)	Implementation and Analysis of a Hybrid Fusion Technique for Biomedical Applications
27	2019-20	Garima Malhotra (161027) Kushagra Srivastava (161033) Manthan Chauhan (161117)	Liver Cancer Detection and Classification Based on Optimum Feature Fusion
28	2019-20	Manasvi Kashyap (161024) Shailu Srivastava (161045) Mohit Garg (161007)	Design of Optimum Finite Impulse Response Digital Filters using Lab View
29	2018-19	Anish Vijan (151005) Mohit Sachdeva (151015) Parth Dubey (151065)	Comparative Analysis of Various Image Fusion Techniques on Multi-sensor and Medical Images
30	2018-19	Krittika Tewari (151087) Shriya Vandita (151092)	Predictive Modeling to Predict Absenteeism in MNC's
31	2017-18	Srijan Thakur (141061)	Theoretical Computational and Experimental Study of Operational Amplifier
32	2017-18	Ashish Saini (141045) Aditya Raj (141051) Nitesh Kumar (141099)	ECG Signal Analysis for Arrhythmia using Back Propagation Neural Network Algorithm
33	2016-17	Mansi Kathuria (131050) Ossein Sharma (131080) Kaushik Raj Singh (131086)	Design of Energy Harvesting Prototypes from Waste heat of Home Chimney using Thermoelectric Generators
34	2016-17	Shubham Gupta (131079) Akansha Maheshwari (131102)	VLSI Implementation of Adder Circuits Using Quaternary Signed Digit
35	2016-17	Priya Verma (131091) Nikita Bansal (131096) Kanika Thakur (131099)	FPGA implementation and CAD system of Electrocardiography for bipolar leads using Haar wavelet transformation
36	2015-16	Shwetanjali (121087) Ambesh (121088) Akankha Dhiman (121100)	Hardware Optimization & CAD system of an Electrocardiograph Circuit for Lead II
37	2015-16	Palak (121001) Akshay Kataria (121004) Abhilasha Chaudhry (121006)	Utilization of Exhaust heat from automotive using Thermopile
38	2015-2016	Shruti Patial (121024) Aditi Prabha (121025) Dhruv Raj Singh (121027)	FPGA Implementation of a AM/FM
39	2015-2016	Paras Goyal (121002) Sachin Arora (121023) Dalchand (121046)	Design and simulation of membership functions for fuzzification module of fuzzy system

40	2014-2015	Aastha Afsar (111007) Rohit Chauhan (111028) Somya Verma (111128)	Energy Harvesting Using Thermoelectric Materials
41	2014-2015	Deepali (111001) Naman Patel (111027) Aditya Gupta (111131)	Design of Digital Circuits Based on Reversible Logic
42	2013-2014	Bhavya Wadhwa (101001) Rishabh Sachdeva (101010) Ubher Khurana (101039)	Trans-conductance Amplifiers
43	2012-2013	Kunal Dutt (091082) Hemank Mehta (091111) Naina Agarwal (091112)	VLSI Implementation of Current Feedback Operational Amplifier and Operational Trans-conductance Amplifier.
44	2012-2013	Ankur Agrawal (091004) Abhimanyu Gupta (091006) Arpit Kuthiala (091011)	Implementation of CMOS Current Feedback Miller Compensated Operational Amplifier.
45	2011-2012	Mayank (081058) Akshay (081061) Dinesh (081129)	Fire Fighting Robot
46	2011-2012	Jatin Pahadia (081038) Kshitiz Vaish (081104) Nalin Yadav (081120)	Digital Implementation of Software Defined Radio Subsystem.
47	2009-2010	Aditya Bhansali (061011) Ayush Gupta (061040) Swati Bhargava (061131)	Design of a Low Voltage High Performance Current Feedback Operational Amplifier using CMOS.
48	2009-2010	Abhishek Thakur (061009) Piyush Kumar Sharma (061092) Satish Pankaj (061117)	Automatic Dipper Control
49	2009-2010	Shivam Rastogi (061123) Shweta Tiwari (061125) Anshika Chaudhary (061604)	Current Differencing Trans-conductance Amplifiers and their Applications.
50	2008-2009	Ekta Patil (051005) Pratik Gupta (051020) Yukti Kanwar (051011)	Fingerprint Authentication System
51	2008-2009	Vikash Kumar (051034) Ankit Dabda (051036) Mukul Jain (051043) Kompal Gupta (051117)	HIMGLANCER: A Software Application for Tourism Industry

### On-Campus Committees / Duties

Year	Duties	Notice Number
2023	Coordinator, UTSAH under Research, Innovation and Entrepreneurship	17/11/2023
2023-till date	Member, Ethics Committee, JUIT	JUIT/WKG/REGR/2023-24/0179 September 08, 2023
2023-till date	Member, Internal Quality Assurance Cell	JUIT/WKG/IQACI2023/01(R) Jan 30, 2023
2023-till date	Member, Anti Ragging Squad	JUIT/WKG/REGR/2022-23/0929 June 27, 2023

2023- till date	Editor, Hilly Ramblings, JUIT Newsletter	JUIT/WKG/REGR/2022-23/0917 June 24,2023 JUIT/WKG/REGR/2023-24/057 July 26, 2024
2022-Till date	Vice President, Institution Innovation Council	Nov 9, 2023 Oct 19, 2022
2022-Till date	Member, Technical Incubation and Entrepreneurship Development Cell (TIEDC)	JUIT/WKG/REGR/2023-24/0328 October 26, 2023 JUIT/WKG/REGR/2022-23/055 July 27, 2022
Sep 19-25, 2022	Anti Ragging duty (Coordinator)	JUITW/DAR 12022-23107 Sep 15, 2022
2022-23	Member, Screening Committee Expanelled Incubator	JUIT/WKG/REGR/2022-23/062 Aug 03, 2022
2022-23	Member, Innovation and Start up	JUITW/WKG/REGR/2022-23/021 July 07, 2022
2022-23	STRIDE, Convener, UGC Task Group MULYA PRAVAH, UGC Task Group PARAMARSH, UGC Task Group	JUITW/WKG/REGR/2022-23/007 July 05, 2022
2022-23	Member, Anti ragging squad	JUIT/WKG/REGR/2021-22/484
2022-Present	Chairperson, Curriculum Aspects, IQAC	JUITW/WKG/VC/2021-22/015
2022-Present	PhD Examination Committee, ECE	JUITW/DAR/2021-22/002
2021-Present	Chairperson, e-Governance Committee, JUIT	JUITW/WKG/REGR/2021-22/215 JUIT/WKG/REGR/2023-24/001 July 01,2023
2021-22	Committee for proposal of PURSUE scheme 2021 under DST	JUITW/WKG/REGR/2021-22/004
2021- Present	Member of University Level Committee	JUITW/WKG/REGR/2021-22/137
2021-Present	IEEE JUIT Student Branch Counselor	JUITW/WKG/REGR/2021-22/045
2020-21	Covid Help Group Member	JUITW/WKG/REGR/2020-21/0813
2020-22	Anti ragging Squad	JUITW/WKG/REGR/2021-22/105 JUITW/WKG/REGR/2020-21/0697
2020-21	DEEKSHARAMB, Student Induction Program, UGC	JUITW/WKG/REGR/2020-21/0239
2020-22  Oct 2016- Present	Member Secretary, IPR Cell JUIT, Solan  Co-coordinator of IPR cell, JUIT, Wagnaghat, INDIA.	JUITW/WKG/REGR/2024-25/1022 JUITW/WKG/REGR/2021-22/306 JUITW/WKG/REGR/2020-21/031  <a href="http://www.juit.ac.in/ipr/IPR%20Team.pdf">http://www.juit.ac.in/ipr/IPR%20Team.pdf</a>
2020-22	Member, Fit India Club, JUIT, as part of Fit India Campaign	JUITW/WKG/REGR/2020-21 JUITW/WKG/REGR/2021-22/027 (July 26, 2021)
2019-20	Member : Exam Conduct Committee	JUITW/WKG/REGR/2019-20/872
2019-20	Member: JYC 2019-20 Club / Committee Interview	JUITW/WKG/JYC/2019-20/014

2019-20	Member: Diksha Event	JUITW/WKG/REGR/2019-20/0371
2019-24	Member: Technical Club, Photography Club and Movie Club	JUITW/WKNG/JYC/2023-24/098 JUITW/WKNG/JYC/2022-23/116 JUITW/WKNG/JYC/2021-22/115 JUITW/WKG/REGR/2020-21/0771 JUITW/WKG/REGR/2019-20/020 JUITW/WKG/JYC/2019-20/016
2019-20	Registration duty (17-21 July, 2019) (8-11 Jan , 2020)	JUITW/WKG/REGR/2019-20/ JUITW/WKG/REGR/2019-20/673
2019-20	Member: Disciplinary Committee	JUITW/WKG/REGR/2018-19/798
June 03, 2019	Board of Office bearers for Stock Verification, Learning Resource Centre	JUITW/WKG/REGR/2018-19/792
2019- 2022	Chairperson, University Time Table Committee, JUIT, Waknaghat, INDIA.	JUIT/WKG/REGR/2020-21/0739 JUIT/WKG/REGR/2018-19/443
September 2018- Present	Presiding Officer, Complaint against Caste based Discrimination	JUITW/WKG/REGR/2022-23/021 July 07, 2022 JUITW/WKG/REGR/2021-22/034 July 29, 2021 JUITW/WKG/REGR/2020-21/0228 Sep 14, 2020 JUITW/WKG/REGR/2019-20/128 Sep 27, 2019 JUITW/WKG/REGR/2018-19/097 Sep 26, 2018
2018-19	Faculty Coordinator - JYC Event Club	JUITW/WKG/REGR/2018-19/213
July 2018- July 2022	Presiding Officer, Internal Complaint Committee for Prevention, Prohibition and Redressal of Sexual Harassment of Women Employees and Students.	JUITW/WKG/REGR/2021-22/035 July 29, 2021 JUITW/WKG/REGR/2020-21/0227 Sep 12, 2020 JUITW/WKG/REGR/2019-20/016 July 16, 2019 JUITW/WKG/REGR/2018-19/026 July 23, 2018
July 2018- Present	Coordinator/ Member Secretary, Board of Studies, ECE Department, JUIT	JUITW/WKG/REGR/2018-19/444 JUITW/WKG/REGR/2018-19/480
2018-Present	Chairman, Roract Club, from JUIT	
March 2018- Present	Member of Student Counseling Committee, JUIT	JUITW/WKG/REGR/2023-24/0104 dtd Aug 9, 2023 JUITW/WKG/REGR/2022-23/075dtd Aug 09, 2022 JUITW/WKG/REGR/2021-22/151dtdOct 16, 2021 JUITW/WKG/REGR/2020-21/0939 dtd April 05, 2021 JUITW/WKG/REGR/2018-19/608 Dtd June 14, 2019 JUITW/WKG/REGR/2017-18/502 dtd March 31, 2018
2017-18	Faculty Coordinator - JYC Technical Club Chairman, Muriuos XII	
Aug 2, 2017- Present	Member of Enquiry Committee, JUIT, Waknaghat, INDIA	JUITW/WKG/REGR/2017-18/055
June 2016- Present	Member of Unfair Means Committee, JUIT, Waknaghat, INDIA.	



Sept 2015- Present	Member of Flying Squad for Examination, JUIT, Wagnaghat, INDIA.	
July 2015- June 2017	Technical Coordinator of JYC, JUIT, Wagnaghat, INDIA.	
July 5-7, 2018 July 04, 2017 July 18, 2016	Counseling duty, JUIT, Wagnaghat, INDIA.	
March 2015- Dec 2018  June 2012- Dec 2013	Member, University Time Table Committee, JUIT, Wagnaghat, INDIA.	
Feb 2015- Present	Member of committee to receive complaints against sexual harassment	JUIT/WKG/REGR/2017-18/712 JUITW/WKG/REGR/2016-17/074 dtd August 11, 2016 JUIT/WKG/REGR/2015-16/015 JUIT/WKG/REGR/2014-15/0351
July 25, 2014	Member Mentoring System and Orientation Program	
2012	Member of Academic Council, JUIT, Wagnaghat, INDIA.	JUIT/2012-13/ACDC/0118
2012-Present	Member of Ph.D. (DPMC), of Department of ECE, CSE and BI, JUIT, Wagnaghat, INDIA.	

### Department Committees

Year	Duties	Notice Number
2022-24	Consultative Committee	
2022-24	Course Curriculum Revision Committee	
2022-24	Departmental Quality Assurance Committee	
2021	Coordinator Course Enrichment and Quality Enhancement Committee	JUIT/WKG/ECE/2020-21/042
2020	Chairman of Task force ECE Deptt	JUIT/WKG/ECE/2020-21/035
2020	Chairman of Planning Committee	JUIT/WKG/ECE/2020-21/033
2020	Chairman of High Level Committee on Starting of New Programs	JUIT/WKG/ECE/2020-21/029
2020-21	PhD entrance exam Question paper	JUIT/WKG/ECE/2019-20/06
2020-21	PGET entrance exam Question paper	JUIT/WKG/ECE/2019-20/05
2019-20	6 weeks In-house Summer Training Coordinator	JUIT/WKG/ECE/2019-20/055
2019-20	CO-PO Coordinator	JUIT/WKG/ECE/2019-20/031
2019	PhD Entrance Exam	JUITW/WKG/ECE/2018-19/025
2019	M-Tech Coordinator (PGET 2019)	JUITW/WKG/ECE/2018-19/026
2019	Electronics Lab Overall In charge	JUITW/WKG/ECE/2018-19/012 <a href="http://www.juit.ac.in/departments/electronics/imfiles/Faculty-in-ChargeECE.pdf">http://www.juit.ac.in/departments/electronics/imfiles/Faculty-in-ChargeECE.pdf</a>
2018	NBA Coordinator	
2018-Present	Coordinator ECE Proficiency Degree	
2017- Present	Chairman, Signal Processing and VLSI Design Group	<a href="http://www.juit.ac.in/research-groups-ece">http://www.juit.ac.in/research-groups-ece</a>
2017- Present	Faculty Counselor of Final Year ECE Students	<a href="http://www.juit.ac.in/student-counsellor-academically-weak-students-ece">http://www.juit.ac.in/student-counsellor-academically-weak-students-ece</a>

Aug 11, 2017-Present	Member of Departmental Consultative Committee for Final year students and M-Tech	
2017-Present	Modernization of Labs Committee	<a href="http://www.juit.ac.in/modernization-labs-committee-ece">http://www.juit.ac.in/modernization-labs-committee-ece</a>
June 2016-Present	Member of Academically Weak Students of ECE Deptt.	<a href="http://www.juit.ac.in/student-counsellor-academically-weak-students-ece">http://www.juit.ac.in/student-counsellor-academically-weak-students-ece</a>
2016-Present	Member of Departmental Consultative Committee	
2016-Present	Entrepreneur Ship Committee	<a href="http://www.juit.ac.in/entrepreneur-ship-committee-ece">http://www.juit.ac.in/entrepreneur-ship-committee-ece</a>
2016-18	Program Evaluation Committee	<a href="http://www.juit.ac.in/program-evaluation-committee-ece">http://www.juit.ac.in/program-evaluation-committee-ece</a>
2016-18	Program Curriculum Committee	<a href="http://www.juit.ac.in/program-curriculum-committee-ece">http://www.juit.ac.in/program-curriculum-committee-ece</a>
2016-17	AISHE Coordinator	
2016-2017	Faculty Counselor of Third Year ECE Students	
Oct 2015 – Present	Collection of Feedback forms	
Sept 2015- July 2017	Coordinator M-Tech Projects, JUIT, Wagnaghat, INDIA	
Dec 2014 – July 2017	Load Distribution of Department	
2012-Present	Member of M.Tech, Presentations of Department of ECE, JUIT, Wagnaghat, INDIA.	
2011, 2018	Coordinator of NAAC visit, Department of ECE, JUIT, Wagnaghat, INDIA.	
2009-Present	Member of Board of Studies, Department of ECE, JUIT, Wagnaghat, INDIA.	<a href="http://www.juit.ac.in/board-studies-ece">http://www.juit.ac.in/board-studies-ece</a>
2008-Present	Member of B.Tech, Presentations of Department of ECE, JUIT, Wagnaghat, INDIA.	

## COURSES/ LAB MANUALS DEVELOPED

1	Biomedical Imaging System	JUIT/WKG/ECE/2021-22/009
2	Low Power CMOS VLSI Circuit Design, PhD course, JUIT Solan	
3	Designed VLSI Technology Lab, Lab manual, JUIT, Solan	
4	Introduction to Machine Learning, Professional Course, JUIT Solan	JUIT/WKG/ECE/2019-20/045
5	Reconfigurable Computing, PhD course, JUIT Solan	JUIT/WKG/ECE/2019-20/003
6	Applied Medical Signal Processing, Professional Course, JUIT Solan	JUIT/WKG/ECE/2018-19/014
7	Wavelets and Applications, Elective, JUIT, Solan	JUIT/WKG/ECE/2018-19/014
8	Digital Signal Processing for VLSI	
9	Digital Systems, Professional Course, JUIT Solan	JUIT/WKG/ECE/2018-19/013
10	Digital System Design Lab, 3 <sup>rd</sup> Sem, ECE JUIT	JUIT/WKG/ECE/2018-19/013
11	VLSI In Biomedical Signal processing	
12	Bioelectronics Sensors, Elective Final year, JUIT, Solan	
13	CMOS Analog Circuit Design, Elective Final year, JUIT, Solan	
14	Electrical Science, 2nd semester, JUIT, Solan	
15	Digital Electronics & Logic Design, ECE, JUIT, Solan	
16	Linear Integrated Circuits, 5th Semester, ECE, JUIT, Solan	

17	Designed Communication Systems Labmanual, JUIT, Solan	
18	Designed Digital Electronics Lab manual, JUIT, Solan	
19	Designed Analog Electronics Lab manual, JUIT, Solan	

### Thesis Evaluated:

- 1) PhD thesis entitled “**Performance Improvement In Signal Conditioning Circuitry For Bioimpedance Sensors Using MOS Technology**” University of Pune by *Dnyandeo K. Shedge*, under the guidance of Dr. P. W. Wani and Dr. M. S. Sutaone, August 2014.
- 2) PhD thesis entitled “**Fuzzy C Means and Enhanced Support Vector Machine Cluster based Efficient and Safe Routing with Certificate Revocation in Mobile Adhoc Networks**” E.G.SPillay Engineering College, Nagapattinam, by *Shajan Joseph* under the guidance of Dr.A.Rajaram (Department of Electronics & Communication Engineering), November 2016.
- 3) PhD thesis entitled “**Efficient Stable Channel Allocation With Fault Tolerant Enhanced Query Arising In Mobile Adhoc Networks**” E.G.S Pillay Engineering College, Nagapattinam, by *S. Kannan* under the guidance of Dr. A. Rajaram (Department of Electronics & Communication Engineering), November 2016.
- 4) M.Tech. Thesis entitled “**Design and Implementation of Mathematical Computational unit using Reconfigurable Hardware**”, by *Krishan Deep Gupta* under guidance of Prof. Sayed Javed Arif and Dr. Mohd. Wajid (Department of Electronics Engineering, ZHCET, Aligarh Muslim University, Aligarh, India. November 2019).
- 5) PhD thesis entitled “**A Modified Brain Storm Optimization Approach for Performance Estimation of Multi Carrier-Cdma System in Frequency Selective Fading Channel**”, Mr. T. Dinesh Kumar , of Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Enathur, Kanchipuram 631561

### Keynote Speaker :

- 1) “Synthetic Biology : Towards Digital Circuits”, 8th World Gene Convention-2017 in Macao, China during November 13-15, 2017
- 2) “Computational Modeling of Apoptosis using VHDL and Bio circuits”, First Sustainable Solutions for Growth conference (SSG) 2018 in Wroclaw (Poland) during September 17-18, 2018.
- 3) “A System Model of Apoptosis and Survival Signaling”, 2nd International Biotechnology Congress (IBC-2018) in Fukuoka, Japan during October 14-16, 2018.
- 4) “Computational model using cumulative distribution function for receptors of survival proteins”, 9th World Gene Convention-2018 in Singapore during November 13-15, 2018.
- 5) “An image feature selection approach for dimensionality reduction based on SVM for FKHR proteins”, International Conference on PharmScience Research & Development at Paris, France on March 04-06, 2019.
- 6) “BiCMOS Implementation of Cell Signaling for Cell Survival/Death”, Tissue Engineering & Regenerative Medicine Conference with the theme Novel Perspectives on Tissue Engineering, April 17-18, 2019 at Tokyo, Japan
- 7) “Fuzzy Logic Implementation of Cell Signaling for Cell survival/ Death”, The 10th Anniversary World DNA Day-2019 (WDD-2019), "Innovation, Upgrade, Prolongation, Sustainability", April 25-27, 2019, Nanjing, China.
- 8) “Emerging Trends and Advanced Technologies in Engineering”, Future Advancements in Mobile Cloud Computing and Applications, October 23-24, 2019, Toronto, Canada.
- 9) “Next Generation Technology: Artificial Intelligence in Healthcare and Cyber Intelligent Systems”, 2019 Second International Conference on Mechanical Engineering and Materials (ICMEM2019), Guangzhou, China, December 20-21, 2019.
- 10) “**Efficient Energy Harvester Design From Waste Heat**” EIECC 2022 keynote speaker--2022 2nd International Conference on Electronic Information Engineering and Computer Communication, Xian, China, November 25-27, 2022 on 26/11/2022. <http://eiecc.org/speaker>
- 11) “Emerging Technological Paradigms in Engineering”, International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2024), Sanjivani College of Engineering, Kopargaon, April 27-29, 2024 (Springer).

### Resource Person:

1. Resource Person in two days Orientation Induction Program for Induction Program for M.Sc/M.Tech. First Students of Deptt of BT & BI at Jaypee University of Information Technology, Waknaghat on Aug 03, 2023

2. Resource Person in one week Orientation Induction Program of Faculty at Jaypee University of Information Technology, Wagnaghat on Sept 14, 2022.
3. Resource Person in 10 days Induction Program of First year students at Jaypee University of Information Technology, Wagnaghat. September 01-10, 2021.
4. Resource Person in one week Orientation Induction Program of Faculty at Jaypee University of Information Technology, Wagnaghat vide JUIT/WKG/REGR/ 2021-22/016 on July 13, 2021.
5. Resource Person in one day Orientation Induction Program of Faculty at Jaypee University of Information Technology, Wagnaghat vide JUIT/WKG/REGR/ 2020-21/0234 on Sep 19, 2020.
6. Resource Person in eight days Orientation Induction Program of Faculty at Jaypee University of Information Technology, Wagnaghat from Sep 01-08, 2020
7. Resource Person and Coordinator for visit to Advance Studies in 15 days Induction Program of First year students at Jaypee University of Information Technology, Wagnaghat. July 18- Aug 03, 2019
8. Resource Person in one week Orientation Induction Program of Faculty at Jaypee University of Information Technology, Wagnaghat. August 06-11, 2018 vide JUIT/WKG/REGR/ 2018-19/031
9. Resource Person and Coordinator for visit to Advance Studies in 15 days Induction Program of First year students at Jaypee University of Information Technology, Wagnaghat. July 17-31, 2018 vide JUIT/WKG/REGR./ 2017-18/741
10. Resource Person in one day Induction Program of First year students at Jaypee University of Information Technology, Wagnaghat. July 20, 2017 vide JUIT/WKG/REG/ 2017-18/015
11. Resource Person in Induction Program of First year students at Jaypee University of Information Technology, Wagnaghat. July 25-27, 2016.

### **Guest Lecturer :**

#### **Abroad**

1. Invited as Speaker in International Women In Engineering COVID 19 Congress 2021 (WIECOV 2021), Aug 21-22, 2021 organized by IEEE Bangladesh Section.
2. Speaker in International Newsletter Editors' Meetup at Bangladesh on September 5th, 2020
3. Panelist speaker : WIE TECH Summit 2020: Exploring Challenges, Opportunities and solutions for WIE during COVID-19, in 2020 International COVID-19 Congress (ICC 2020), Bangladesh, August 9th , 7:00 pm- 9:30 pm  
<https://covid-19congress2020.com/women-in-engineering-tech-summit/>

#### **India**

1. Delivered Guest lecture on “Bio Medical Signal Processing and Bio Electronic Sensor” in Maharaja Agrasen University, Baddi, Himachal Pradesh, India on December 3, 2015.
2. Delivered Guest lecture on “ Bio Electronic Sensor” in GianiZail Singh Campus College of Engineering and Technology (GZS CCET), Maharaj Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on December 5, 2016.
3. Delivered Guest lecture on “ Bio Medical Instrumentation systems” in GianiZail Singh Campus College of Engineering and Technology (GZS CCET), Maharaj Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on January 27, 2017.
4. Delivered Guest lecture on “Two Class Classification of Breast Lesions using Statistical and Transform Domain features” in Chandigarh Engineering College, Landran, Sector-112, Greater Mohali, Punjab-140307, India on May 15, 2017.
5. Delivered Guest lecture on “Two Class Classification of Lung Cancer using different feature extraction techniques” in Chandigarh Engineering College, Landran, Sector-112, Greater Mohali, Punjab-140307, India on August 24, 2017.
6. Delivered Guest lecture on “Compedium model using frequency / cumulative distribution function for receptors of survival proteins: Epidermal growth factor and insulin” in GianiZail Singh Campus College of Engineering and Technology (GZS CCET), Maharaj Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on August 29, 2017.
7. Delivered Guest lecture on “Implementation of fuzzy system using different voltages of OTA for JNK pathway leading to cell survival/ death” in GianiZail Singh Campus College of Engineering and Technology (GZS CCET), Maharaj Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on October 31, 2017.

8. Delivered Guest lecture on “Detection of Arrhythmia using Automatic Differentiation Method” in GianiZail Singh Campus College of Engineering and Technology (GZS CCET), Maharaj Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on October 03, 2018.
9. Delivered Guest lecture on “Standard Multiple Regression Analysis Model for Cell Survival/ Death Decision of JNK Protein using HT-29 Carcinoma Cells” in University Institute of Engineering and Technology(UIET) Kurukshetra, India on February 01, 2019.
10. Resource Person in STC on Recent Advances in Image and Signal Processing (RASSIP 2019) at Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, from July 24-28, 2019.
11. Delivered Guest Lecture on “Recent Trends in Biomedical Signal Processing and VLSI Design”, Department of Electronics Engineering, ZHCET, Aligarh Muslim University, Aligrah, India under TEQIP-III, November 01, 2019.  
<https://www.amu.ac.in/newdata/eventheld/11206.jpg>
12. Delivered lecture on “Advances and Future Trends in Image Processing” in FDP Deep Learning for Image Processing: Overview, Challenges and Future” conducted by NITTTR, Chandigarh, AICTE sponsored at Jaypee University of Information Technology, Wagnaghat during Feb 24-28, 2020.
13. Delivered Lecture on “Futuristic Trends and Challenges in Biomedical Image Processing in STP “Recent Advances in Computational Intelligence for Signal Processing (RACISP - 2020)” from Aug 10-15,2020 organized by Department of ECE, JUIT, Solan, India
14. Delivered Lecture on “Smart Computational Intelligence in Health Informatics”, One Week Faculty Development Program on Computational Intelligence Techniques for Machine Learning on dated 31st August to 5th September 2020 organized by Department of CSE & IT, JUIT, Solan, India
15. Delivered Lecture on “Recent Advances in Computational Intelligence for Signal Processing”, AICTE sponsored One Week National Level Online Faculty Development Program on “Research Areas in Bio-Medical Signal Processing” dated Dec 14-19, 2020 organized by Sri Vasavi Engineering College, Tadepalligudem.
16. Delivered lecture on “Recent advancements and Research Challenges in Biomedical field” on June 24, 2021 in AICTE Sponsored One Week National Level Online Faculty Development Program on “Research Areas In Bio-Medical Signal Processing” , dated 21<sup>st</sup> -26<sup>th</sup> June 2021, organized by Department of Electronics & Communication Engineering, Sri Vasavi Engineering College, Tadepalligudem, West Godavari.
17. Delivered lecture on “Technological insights on artificial intelligence and deep learning” on Sept 09, 2021 in Five Days Faculty Development Program (Online) on Innovative Research & Development Trends in Electronics & Communication Engineering from Sept 6 -10, 2021, organized by the Department of Electronics & Communication Engineering, G.L. Bajaj Institute of Technology & Management, Greater Noida, U.P, India
18. Delivered lecture on " Toward design technology: trends, issues, and challenges" on Nov 23, 2021 in in Five days AICTE sponsored Short Term Training Program (STTP) on Emerging Issues of VLSI Design from Nov 22-26, 2021, organized by Department of Electronics & Communication Engineering, School of Engineering & Technology ITM University Gwalior.
19. Delivered lecture on" Wearable Technology in Healthcare" on Jan 21, 2022 in six days AICTE-ISTE refresher online program on Technology Driven Health care systems from Jan 18-22,2022, organized by Department of Electronics & Communication Engineering, Jawaharlal College of Engineering and Technology Jawahar Gardens, Ottapalam, Kerala.
20. Delivered lecture on “Computational Intelligence Techniques and its Application”, on Feb 16, 2022 in UGC-HRDC, NEHU Refresher Course in Biomedical, from 16th February – 1st March 2022 organised by Department of Biomedical Engineering, SoT, NEHU, Shillong.
21. Delivered lecture on “Medical image processing based on fusion and de-noising approaches”, on Feb 22, 2022 in UGC-HRDC, NEHU Refresher Course in Biomedical, from 16th February – 1st March 2022 organised by Department of Biomedical Engineering, SoT, NEHU, Shillong.
22. Delivered lecture on “Machine Learning Techniques for Medical Image Analysis”, on Feb 28, 2022 in UGC-HRDC, NEHU Refresher Course in Biomedical, from 16th February – 1st March 2022 organised by Department of Biomedical Engineering, SoT, NEHU, Shillong.
23. Delivered a lecture on “ECG Analysis for Robust Optimal Thresholding System Design “ on March 11, 2022 in Short Term Course(STC) on "Machine Learning and its Applications" from 07th March to 12th March 2022 sponsored by Quality Improvement Program (QIP) Cell (AICTE), IIITN.
24. Delivered Lecture on “Futuristic Trends And Challenges In Signal Processing”, Atria Institute of Technology (AIT), Bangalore 21st May 2022.
25. Delivered Lecture on “Topics related to recent trends in VLSI applications in signal processing”, with Hand’s on Session at University Institute of Engineering and Technology (UIET) Kurukshetra, India on November 02-03, 2022.

26. Delivered Lecture on “Energy Harvesting Systems”, with Hand’s on Session at J.C.Bose University of Science & Technology, YMCA, India on December 01-02, 2022.
27. Delivered Lecture on “Idea to Product: A Research Pathway to Students” at IGDТУW, Dec 17, 2022.
28. Delivered Lecture on “Overview of VLSI Design” in ECE Summer Training - 2023, July 03 – 15, 2023, Department of Electronics and Communication Engineering , Jaypee University of Information Technology, Wanknaghat, India on July 03, 2023.
29. Delivered talk for a Seminar on “Volunteer Training- WIE Track” in IEEE Delhi Section Students - Young Professionals - Women in Engineering - LifeMember - Congress 2023 (DSSYWLC'23), on 20th January 2024 from 2:00 PM at Netaji Subhas University Of Technology, New Delhi.
30. Delivered expert talk on Ink to Insights: The art of Writing a research paper on February 06, 2024, in WIEmpower 5.0 organized by IEEE IGDТУW Student Branch, Indira Gandhi Delhi Technical University for Women, Delhi.
31. Delivered expert talk on “Empowering Women in Innovation; Breaking Barriers and Driving Process” in one week Faculty Development Program (FDP) on Women in Innovation and Entrepreneur Development (WIED) from March 11-15, 2024 in collaboration with Intellectual Property Rights Cell (IPR), National IP Awareness Mission (NIPAM) and Institution’s Innovation Council (IIC) on March 15, 2024.
32. Delivered Expert talk on “Innovations in Industrial Design” and “IPR awareness in India” in one week training cum workshop on Intellectual Property Rights organised by IQAC, Rajkiya Kanya Mahavidhyalaya (RKMV) Shimla in collaboration with HIMCOSTE on March 21, 2024 and March 26, 2024 respectively.
33. Delivered Expert talk on “ Role of IPR in sustainable development of Himachal Pradesh”, in order to celebrate World Intellectual Property Day organized by IPR cell JUIT in collaboration with IIC on April 26, 2024.
34. Delivered talk on “Innovation, Design, and Entrepreneurship”, to first year students in Induction program on July 24, 2024 at JUIT.
35. Delivered lecture in week Faculty Development Program (FDP) on "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications" by Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali from Sept 2-7, 2024 : Bioengineering Breakthroughs: Pioneering Advances in Health and Environment” .
36. Session speaker in Breakout Session 1: Emerging Technology Applications on Oct 14, 2024
37. Delivered a talk on “Recent Advancements in VLSI Design and its Applications” in Faculty Development Program (FDP) on “AI/ML Approaches for Efficient VLSI Circuit Designs,” scheduled from December 2 to December 13, 2024, organized by the ECE department, Jaypee Institute of Information Technology, Noida in collaboration with the EICT, IIT Roorkee on December 03, 2024
38. Delivered a lecture entitled “Building Intelligent IoT Systems: The Power of AI and Data Science” on December 17, 2024 at the Faculty Development Program on the topic "Introduction to IoT and AI: The Future of Connected Devices at the Chandigarh Group of Colleges, Jhanjeri in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali from December 16th - 20th, 2024.
39. Delivered talk entitled “Recent Trends and Challenges in AI-Based Image Processing Research”, on Feb 10, 2025 at the Faculty Development Program on Applications of IoT, AI and Applications from Feb 10-14, 2025 organised by EICT Academy, Center of development of Advancing Computing, Mohali in collaboration with JECRC foundation, Jaipur Rajasthan
40. Delivered talk entitled “The Role of AI in Biomedical Applications”, on Feb 19, 2025 at the Faculty Development Program on Introduction to IoT, AI and its Applications from Feb 17-21, 2025 organised by EICT Academy, Center of development of Advancing Computing, Mohali in collaboration with Ch. Devi Lal Institute of Engineering and Technology, Panniwala Mota, Sirsa.
41. Delivered talk entitled “AI in Bio-Medicine: Revolutionizing Healthcare and Diagnostics”, on Feb 21, 2025 at the Faculty Development Program on Exploring AI and its Applications from Feb 17-21, 2025 organised by EICT Academy, Center of development of Advancing Computing, Mohali in collaboration with University Institute of Technology (UIT), HPU, Shimla.
42. Delivered talk on “Best Practice for SB's” in IEEE Beyond Membership by IEEE India Council Membership Development Committee & IEEE Delhi Section 2025 on February 20, 2025
43. Delivered talk entitled “High Speed Networking and Information Security” on April 02, 2025 at the INDIACom-2025; the 19th Edition of International Conference on Computing for Sustainable Global Development, organized from 02nd – 04th April, 2025 at Bharati Vidyapeeth, New Delhi (INDIA).



## Session Chair :

1. 2013 IEEE International Conference on signal processing and control (ISPCC 2013), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 26-28, 2013.
2. International Conference on “Emerging Trends in Science and Technology”, Sri Satya Sai University of Technology and Medical Sciences, Sehore (Bhopal) M.P, India, August 22-23, 2014.
3. International Conference on “Applied Science and Engineering”, Advance Research and Educational Services, Bhopal M.P. India in association with The Institution of Electronics and Telecommunication Engineers, Bhopal Center, Bhopal ,October 19, 2014.
4. International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP-2014), Poornima Institute of Engineering & Technology , Jaipur, Jan 16-17 ,2015.
5. 2015 IEEE International Conference on Signal Processing and Control (ISPCC 2015), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.
6. 10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 16th – 18th, 2016.
7. 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 1-3, 2017.
8. 4<sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 21-23, 2017.
9. International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018), Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology, Solan-173234, Himachal Pradesh, INDIA, 9-10th February, 2018.  
<http://www.juit.ac.in/ftnct-2018/css.php>
10. 12th INDIACom: 5th 2018 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 14<sup>th</sup>-16<sup>th</sup>, 2018.  
<http://www.bvicam.ac.in/indiacom/splSessionDetails.asp?sessionRequestID=652>
11. International Conference on Advanced Informatics for Computing Research (ICAICR-2018), Shimla, July 14-15, 2018.  
<http://informaticsindia.co.in/SpecialSession-04.html>
12. 4th International Conference on Cyber Security and privacy in communication networks (ICCS) 2018, Jaipur (Rajasthan) India, October 26-27, 2018  
<http://iccs2018.iaasse.org/international-conference-on-cyber-security-special-sessions>
13. Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC) , Jaypee University of Information technology, Wagnaghat, Solan, H.P, India. Dec 20-22, 2018.
14. Special Session on “Emerging Trends and Advanced Technologies in Engineering”, International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019), Amity University Rajasthan, Jaipur, India , February 26 - 28, 2019.  
[http://www.suscom.org.in/Special%20Sessions/SS\\_13%20Emerging%20Trends%20and%20Advanced%20Technologies%20in%20Engineering.pdf](http://www.suscom.org.in/Special%20Sessions/SS_13%20Emerging%20Trends%20and%20Advanced%20Technologies%20in%20Engineering.pdf)  
<http://www.suscom.org.in/Special%20Session.html>
15. Special Session on "Recent Research Trends Using Big Data Analysis and Soft Computing", International Conference on Advanced Informatics for Computing Research (ICAICR-2019), Shimla, June 15-16, 2019.  
<http://informaticsindia.co.in/SpecialSession-01.html>
17. Special Issue on “Recent Research in Computational Intelligence Paradigms”, International Conference on Emerging Trends in Information Technology- 2019 (ICETIT 2019), Institute of Information Technology and Management, Janakpuri, Delhi, June 21-22, 2019.  
[http://iitmjanakpuri-sdc.com/icetit2019/special/ICETIT-2019\\_Meenakshi.pdf](http://iitmjanakpuri-sdc.com/icetit2019/special/ICETIT-2019_Meenakshi.pdf)
18. 5<sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2k19), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, October 10-12, 2019.
19. The 3rd International Conference on Recent Innovations in Computing (ICRIC-2020), 20-21 March, 2020, Central University of Jammu, J & K.
20. IEEE International Conference on Computational Performance Evaluation (ComPE) North - Eastern Hill University, Shillong, Meghalaya, India, Jul 2-4, 2020.
21. 1<sup>st</sup> International Conference on Mobile Radio Communications and 5G Networks MRCN-2020, U.I.E.T-KUK, July 13-15, 2020 (Springer)

22. 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information Technology, Wagnaghat, India, November 06-08, 2020(online mode)
23. 2nd International Conference on Soft Computing for Intelligent Systems, (SCIS-2020) organized by University Institute of Engineering & Technology Kurukshetra University, Kurukshetra from 24th-25th December 2020(online mode)
24. 4th Edition of International Conference on Communications and Cyber-Physical Engineering CMR Engineering College, Hyderabad, India, April 09-10, 2021.
25. International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2021), University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, April 28-29, 2021 (Springer)
26. International Conference in Mobile Radio Communications and 5G Networks (MRCN-2021), University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, June 23-24, 2021 (Springer)
27. 6th International Conference on Signal Processing, Computing and Control (ISPCC2K21), October 07-09, 2021
28. 2021 7th International Conference on Signal Processing and Communication (ICSC), November 25-27, 2021
29. 6<sup>th</sup> International Conference on Image Information Processing, ICIIP 2021, November 26 - 28, 2021.
30. Maiden edition of IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON 2022), NSUT, Delhi, 11-13th February 2022.
31. International Conference in Mobile Radio Communications and 5G Networks MRCN-2022, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, August 05-06, 2022 (Springer).
32. International Conference on Machine Learning and Data Engineering, UPES Dehradun, India, September 07-08, 2022.
33. The International Conference on Parallel, Distributed and Grid Computing (PDGC 2022), Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh, India, November 25-27, 2022.
34. The Fifth International Conference on Multimedia, Signal Processing, and Communication Technologies (IMPACT-2022), AMU, Aligarh, India, 26-27 November 2022.
35. 2<sup>nd</sup> International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2022), JUIT, September 23-24, 2022 (Springer)
36. Maiden edition of IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON 2023), Chitkara University, Rajpura, 24-26 February 2023.
37. 6<sup>th</sup> International Conference on Communications and Cyber-Physical Engineering (ICCCE – 2023), CMR Engineering College, Hyderabad, India-501401, 28-29 April, 2023.
38. 3<sup>rd</sup> International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2022), JUIT, May 15-17, 2023 (Springer).
39. International Conference in Mobile Radio Communications and 5G Networks MRCN-2023, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, August 25-26, 2023 (Springer).
40. 2023 Seventh International Conference on Image Information Processing (ICIIP -2023) from November 22-24, 2023, at JUIT, Himachal Pradesh.
41. International Conference on Machine Learning and Data Engineering (ICMLDE 2023), 23 - 24 November 2023, UPES, Dehradun, India.
42. 9th International Conference on Signal Processing and Communication (ICSC 2023), Department of Electronics and Communication Engineering, JIIT, Noida, U.P., India, 21-23 Dec, 2023.
43. 2023 Seventh International Conference on Image Information Processing (ICIIP -2023), November 22 - 24, 2023 at Jaypee University of Information Technology, Wagnaghat, Himachal Pradesh, INDIA.
44. 5th International Conference on Mobile Radio Communications and 5G Networks (MRCN-2024), August 23-24, 2024.
45. IEEE International Conference TENSYP2024 at Welcome Hotel, Sector 10, Dwarka, New Delhi 110075 and NSUT, Delhi from Sep 27-29, 2024.
46. DELCON-2024 at Bharati Vidyapeeth, New Delhi (INDIA) from November 21-23, 2024.
47. INDIACom-2025; the 19th Edition of International Conference on Computing for Sustainable Global Development, from 02nd – 04th April, 2025 organized at Bharati Vidyapeeth, New Delhi (INDIA).
48. 5th International Conference on ICT for Digital, Smart, and Sustainable Development (ICIDSSD '25), from April 22-23, 2025 organized by Department of CSE and School of Engineering Sciences and Technology (SEST), Jamia Hamdard, India
49. 6th International Conference on Mobile Radio Communications and 5G Networks (MRCN-2024), August 22-23, 2025

## CONFERENCES



1. **Conference General Chair Person** of 4<sup>th</sup> IEEE International Conference on signal processing and control (ISPPC 2017), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, September 21-23, 2017.  
[http://www.juit.ac.in/isppc\\_2017/](http://www.juit.ac.in/isppc_2017/)  
[http://www.juit.ac.in/isppc\\_2017/includes/Organizing%20Committee.pdf](http://www.juit.ac.in/isppc_2017/includes/Organizing%20Committee.pdf)  
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8258908>
2. **Conference General Chair Person** of 5<sup>th</sup> IEEE International Conference on signal processing and control (ISPPC 2k19), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, October 10-12, 2019.  
[http://www.juit.ac.in/isppc\\_2019/index.php](http://www.juit.ac.in/isppc_2019/index.php)  
[http://www.juit.ac.in/isppc\\_2019/org\\_committee.php](http://www.juit.ac.in/isppc_2019/org_committee.php)  
[https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&queryText=2019%205th%20International%20Conference%20on%20Signal%20Processing,%20Computing%20and%20Control%20\(ISPPC\)%20](https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&queryText=2019%205th%20International%20Conference%20on%20Signal%20Processing,%20Computing%20and%20Control%20(ISPPC)%20)
3. **Conference General Chair** :1st International Conference in Mobile Radio Communications and 5G Networks MRCN-2020, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, July 13-15, 2020 (Springer) (online mode)  
<https://www.uietkuk.ac.in/mrcn/>
4. **Conference General Chair** :2<sup>nd</sup> International Conference Soft Computing for Intelligent Systems (ICSCIS 2020) in the proceedings of book series “Algorithms for Intelligent Systems”, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, Dec 24-25, 2020 (Springer) (online mode)  
<https://uietkuk.ac.in/scis2020/>
5. **Conference General Chair** : International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2021), University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, April 28-29, 2021 (Springer)
6. **Conference General Chair** : International Conference in Mobile Radio Communications and 5G Networks MRCN-2021, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, June 23-24, 2021 (Springer)  
<http://tpouiet.epizy.com/>
7. **Conference Secretary** of 6<sup>th</sup> IEEE International Conference on signal processing and control (ISPPC 2k21), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, October 07-09, 2021.  
[http://www.juit.ac.in/isppc\\_2021/index.php](http://www.juit.ac.in/isppc_2021/index.php)  
[http://www.juit.ac.in/isppc\\_2021/org\\_committee.php](http://www.juit.ac.in/isppc_2021/org_committee.php)  
<https://ieeexplore.ieee.org/xpl/conhome/9609332/proceeding>
8. **Organizing Committee Chair**, Maiden edition of IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON 2022), 11-13th February 2022.  
<https://www.delcon2021.com/committee/oc.html>
9. **Conference General Chair** : International Conference in Mobile Radio Communications and 5G Networks MRCN-2022, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, August 05-06, 2022 (Springer)
10. **Conference General Chair** : International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2022), JUIT, September 23-24, 2022 (Springer)
11. **Conference General Chair** : International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2023), JUIT, May 15-17, 2023 (Springer)
12. **Conference Secretary** : International Conference in Mobile Radio Communications and 5G Networks MRCN-2023, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, August 25-26, 2023 (Springer).
13. **Conference Secretary** : International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2024), Sanjivani College of Engineering, Kopargaon, April 27-29, 2024 (Springer).
14. **Conference Secretary** : 5th International Conference on Mobile Radio Communications and 5G Networks (MRCN-2024), August 23-24, 2024 .
15. **Conference Advisory Committee** of 7<sup>th</sup> IEEE International Conference on signal processing and control (ISPPC 2025), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, March 6-8, 2025.  
[https://www.juit.ac.in/isppc\\_2025/](https://www.juit.ac.in/isppc_2025/)
16. **Conference General Chair** : 6th International Conference on Mobile Radio Communications and 5G Networks (MRCN-2024), August 22-23, 2025.

17. **Fellow Chair, Organising Comm member:** 29<sup>th</sup> symposium VLSI Design & Test Symposium, VDAT 2025, August 7-9, 2025, Chandigarh

## CONVENER FDP / SEMINARS/ WORKSHOPS/TRAINING/VISITS

### Six weeks

1. Coordinator six weeks in house B-Tech 3<sup>rd</sup> year training from May 20, 2020- June 30, 2020, at Jaypee University of Information Technology, Himachal Pradesh, India vide letter no JUIT/WKG/REGR/2019-20/055

### Four Weeks

1. Organised “*Monsoon Mind: Predict the Rain – An AI Challenge on Climate Action*”, from April 17 to May 15, 2025 by Center of Excellence in Artificial Intelligence for Education.
2. Organized poster design/ slogan/innovative ideas “PINNACLE” by Public Relations & Publication Standing Committee of IEEE Delhi Section from August 20-October 01, 2022
3. Organised UI/UX & Web Development Bootcamp Technical Sciences, by Movies and Photography Club of JUIT Youth Club from Jan 5-24, 2022.
4. Organised ‘Ideathon 2021’, by DRISHTI: IEEE-SIGHT (JUIT-SB) in collaboration with IEEE Delhi section from November 27-December 28, 2021
5. Organized four weeks Lab staff training from May 27-June 22, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India vide letter no JUIT/WKG/REGR/2018-19/477

### 20 days

1. ClearVision Challenge: Image and Video Dehazing Competition, Centre of Excellence in Artificial Intelligence for Education (CoE-AIE), September 23 –October 11, 2024

### 15 days

1. Organised Ignite-a-thon 2025 – Turn Your Ideas into Reality! in collaboration with IEEE Region 10 Adhoc Committee on Entrepreneurship and Innovation –Delhi Section team, IEEE Delhi Section and IEEE WIE AG Delhi Section from August 12-25, 2025.
2. Organised “Open Door for MDC by Membership development committee, IEEE Delhi Section from Feb 14- 28, 2025.
3. Organised Poster Presentation Competition: Explore CHANDRAYAAN-3: "LUNAR Canvas" by Membership development committee in collaboration with WIE AG and Student activity committee, IEEE Delhi Section from Sep 21-Oct 03, 2023.
4. Organized Designing Competition for Mugs, Tshirts, and Diaries on Sustainable Development Goals (SDGs) by Public Relation and Publication Standing committee, IEEE Delhi Section in collaboration with, IEEE JUIT SB and IEEE YMCA SB from April 04-21, 2023.
5. Organized Fempreneur from March 13- 25, 2023 by IPR cell, JUIT Waknaghat.
6. Organized Design-a-thon on Equality & Racial discrimination and Casteism in Present India from Feb 27- March 15, 2023 by Complaint against Caste Based Committee, JUIT Waknaghat.
7. Organized Innovation, Research and Development (IRD) Competition in collaboration with IPR cell and TIEDC from Aug 16- Sep 05, 2022.
8. Organized “Slogan Writing Competition” on Integrated approach in Science and Technology for a sustainable future from Feb 24-March 8, 2022 by ICC and Caste based Discrimination Committee, JUIT, Solan.  
<https://www.juit.ac.in/committeesjuitt/icc/Reportonsloganwriting24Feb-8Mar2022.pdf>

### Ten days

1. Organised GRAPHICA”: UI/UX design competition from January 1 -11, 2024 by IEEE WIE AG Delhi Section.
2. Organised Photography Competition on the theme “Mother Nature” in collaboration with IEEE JUIT SB, ACM JUIT, SIAM JUIT, TIEDC, and Technical and Sciences Club (JYC), Jaypee University of Information Technology. October 01-09, 2023.

3. Organized Digital Poster Design Competition on “Technology to improve Rural Life” by SIGHT, IEEE DELHI SECTION in collaboration with DRISHTI SIGHT JUIT and SIGHT JCBUST from October 04- 12, 2022.
4. Organized “e-poster design”, competition on My Vision of India 2025 from Oct 06-16, 2021 by ICC and Caste based Discrimination Committee, JUIT, Solan.  
<https://www.juit.ac.in/committees/juit/Reportofepostercontest6thoctto16thOct2021.pdf>
5. Convener of 10 days FDP “Emerging Trends in VLSI and Communication (ETVC 2018), from June 09-18, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/FDPonEmergingTrendsInVLSIandCommunication.php>

### One week

1. Organized a Workshop on Augmented Reality (AR) Development from August 19-23, 2025 by IEEE JUIT Student Branch, in collaboration with IEEE R10 Education Activities and the IEEE Delhi Section.
2. Organised One-Week workshop on ‘Innovation, Sustainability & Leadership (WISL) during July 14-18, 2025 by IEEE Region 10 Adhoc Committee on Entrepreneurship & Innovation Ambassadors Team, IEEE Delhi Section in collaboration with IEEE WIE AG Delhi Section in online mode.
3. Organised One-Week Faculty Development Program (FDP) on VLSI Design: Bridging Theory and Practice by Department of Electronics and Communication Engineering, Jaypee University of Information Technology (JUIT), Wagnaghat, Solan in collaboration with IEEE EAC R10, IEEE India Council, EAC, SAC, and MDC, IEEE Delhi Section and EICT Academy, Center of Development of Advancing Computing, Mohali from June 09-13, 2025.
4. Organised an insightful online workshop titled "Artificial Intelligence for Smart Cities with Python" from September 09-14, 2024 by Women in Engineering (WIE) affinity group, IEEE Student Branch at Jaypee University of Information Technology (JUIT) (IEEE WIE AG JUIT).
5. Organised one week Faculty Development Program (FDP) on "MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications" by Department of Electronics and Communication Engineering, JUIT in collaboration with Electronics & ICT Academy, and Centre for Development of Advanced Computing (C-DAC), Mohali from Sept 2-7, 2024.
6. Organized one week Faculty Development Program (FDP) on Women in Innovation and Entrepreneur Development (WIED) from March 11-15, 2024 in collaboration with Intellectual Property Rights Cell (IPR), National IP Awareness Mission (NIPAM) and Institution’s Innovation Council (IIC).
7. Organized one week Hand’s-on Workshop on "VLSI Design" at Jaypee University of Information Technology, Solan in collaboration with the Department of Technical Education, Vocational and Industrial Training, Government of Himachal Pradesh from March 04-09, 2024.
8. Organized One week ‘Megadrone’ workshop by IEEE JUIT SB in collaboration with IEEE R10 education activities and IEEE Delhi section from August 24 -30, 2023, in ECL5, Jaypee University of Information Technology, Solan, Himachal Pradesh, India.
9. Organized One week ‘ROBOTRIX’ workshop by IEEE JUIT SB in collaboration with IEEE R10 education activities and IEEE Delhi section from August 17–23, 2023, in ECL5, Jaypee University of Information Technology, Solan, Himachal Pradesh, India.
10. Organized Digital Poster Design Competition on National Girl Child Day by IEEE WIE JUIT SB from Jan 24-29, 2023.
11. Organized Digital Poster Design Competition on “Code of Ethics” by Caste based discrimination Committee in collaboration with Ethics Committee JUIT from Nov 01-07, 2022.
12. Organized One week National level workshop on IoT entitled “GALACTECH” by IEEE R10 Region, SAC IEEE Delhi Section, JUIT SB and JCBUST YMCA SB powered by Educlouds from September 19-25, 2022.
13. Organized “Business out of Used Plastics”, IPR cell, JUIT from Sep 14-21, 2022
14. Organized Cyber Security workshop on ‘CyberVerse 2.0’ by IEEE R10 Region in collaboration with SAC IEEE Delhi Section, JUIT SB AND JCBUST YMCA SB (Interuniversity/ Collaborative activity) from August 22-26, 2022.
15. Coordinated Online National-level Faculty Development Program “NEP 2020 Implementation in Higher Education Institutes” from May 9-13, 2022 organized by NITTTR, Chandigarh  
<https://www.juit.ac.in/NEP/Report9-13May2022.pdf>
16. Organized IoT Workshop ,by IEEE JUIT SB from March 7-12, 2022
17. Organized “essay writing competition” on Women in Innovation and Engineering" from 7th November to 13th November 2021 by IEEE WIE JUIT SB.
18. Organized Research and Innovation Showcase (RAISE) from March 20 - 25, 2021, IPR Cell, JUIT, Solan.

19. Organized one week workshop “Women innovation and IPR” from March 08-13, 2021, IPR Cell, JUIT, Solan.
20. Organized “e-essay competition”, from Feb 22-27, 2021 by Caste based Discrimination Committee, JUIT, Solan.
21. Organized Let’s skill up: Graphic Designing and Android Development by Rtr. Vatsal Singh, Rtr. Dev Tyagi from Aug 20-28, 2020 via online mode.
22. Organized Logo designing competition of Rotaract club, Wagnaghat from June 14-21, 2020 via online mode.
23. Convener of one weekworkshop “Emerging areas of Research in Image Processing” (ERIP 2020)” from Jan 06-12, 2020, by Signal and Image Processing Group, Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/ERIP-2020.php>
24. Convener of One week workshop on Machine Learning from Nov 18-24, 2019 by Technical Club, Jaypee University of Information Technology, Himachal Pradesh, India.
25. Convener of One week Workshop on Web Development from Nov 06-11, 2019by Technical Club, Jaypee University of Information Technology, Himachal Pradesh, India.
26. Convener of one week workshop “Boot Camp on C” from Sept 16-22, 2019 by Technical Club, Jaypee University of Information Technology, Himachal Pradesh, India.
27. Convener of one week FDP “Recent Trends on Machine Learning for Signal Processing (RTMLS)” from May 20-25, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/FDPonRTMLS2019.php>
28. Convener of one week workshop on “Emerging Trends and Applications of Machine Learning” from May 20-25, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India.
29. Convener of one week workshop “ Recent Trends in Electronics and Communication Fields, from June 11-17, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/FDPonEmergingTrendsinVLSIandcommunication.php>

#### Five days

1. Organised Poster Competition on Water Pollution and Energy Conservation by IIC JUIT from March 16-20, 2024
2. Organized Sustainable Development, Ideation, IEEE SIGHT JUIT-SB, Feb -7-11, 2023
3. Organized ‘Upcycle Denim’ by DRISHTI: IEEE-SIGHT (JUIT-SB) in collaboration with Rotaract Club of Wagnaghat from Dec 07-11, 2021
4. Organized State of the Arts by Rotaract club, Wagnaghat from December 23-27, 2020
5. Convener in five days Boot Camp on Python from Oct 13-17, 2019,by Technical club, Jaypee University of Information Technology, Himachal Pradesh, India.

#### Four days

1. Innovate to Heal: Preventive and Curative Healthcare for Future, February 25-28, 2025, IIC JUIT
2. UI sessions by IEEE JUIT SB, JUIT, from Nov 02-05, 2023.
3. UI/UX and Web Development Bootcamp 2023 by Technical Sciences and Photography club, JUIT, from April 18-21, 2023.
4. Convener in Four days “Graphic Designing Workshop” from Sept 23-26, 2019, by Technical club, Jaypee University of Information Technology, Himachal Pradesh, India.

#### Three days

1. Organised Techmavens 3.0 from Sept 22-24, 2025 by WIE IEEE JUIT SB in collaboration with IEEE Delhi Section.
2. Organized “Innovate to Excel 2025” in collaboration with IEEE JUIT SB, ACM, SIAM, Tech Club JYC and CEC on May 02-04, 2025 at Jaypee University of Information Technology, Himachal Pradesh, India.
3. Organized “R& D expo” in collaboration with IEEE student branch, JUIT and ACM, JUIT on April 18-20 2025 at Jaypee University of Information Technology, Himachal Pradesh, India.
4. Organized Technical Event “*Murious19*” in collaboration with IEEE student branch, JUIT and ACM, JUIT from February 28 to March 2, 2025 at Jaypee University of Information Technology, Himachal Pradesh, India.
5. Organised Enigma, by IEEE JUIT SB in collaboration with IEEE Delhi Section and WIE AG IEEE Delhi Section from Dec 06-08, 2024.
6. Organised EcoInnovate, November 20-22, 2024 by IIC JUIT

7. Organised Membership development Congress, during IEEE International Conference TENSYP2024 at Welcome Hotel, Sector 10, Dwarka, New Delhi 110075 and NSUT, Delhi from Sep 27-29, 2024.
8. Organised 3 - day handson Advanced Excel workshop from July 15-17, 2024
9. Organized Technical Event "R& D expo" in collaboration with IEEE JUIT student branch, on May 3-5, 2024 at Jaypee University of Information Technology, Himachal Pradesh, India.
10. Organised Startup Mania 2.0 from April 26-28, 2024 by TIEDC, Jaypee University of Information Technology, Himachal Pradesh, India.
11. Organised RIDE HACK'24-Phase 1 a 48 hrs Hackathon from April 25-27, 2024 at Jaypee University of Information Technology, Himachal Pradesh, India.
12. Organized Technical Event "*Murious18*" in collaboration with IEEE student branch, JUIT and ACM, JUIT from March 8-10, 2024 at Jaypee University of Information Technology, Himachal Pradesh, India.
13. Organised Enigma, by IEEE JUIT SB from Dec 01-03, 2023.
14. Organized Learn Expo, Video Editing Bootcamp by Technical Sciences club JYC and TIEDC, JUIT from Oct 30-Nov 01, 2023 at Jaypee University of Information Technology, Himachal Pradesh, India.
15. Organized Technical Event "R& D expo" in collaboration with IEEE student branch, JUIT and ACM, JUIT on April 21-23, 2023 at Jaypee University of Information Technology, Himachal Pradesh, India.
16. Organized Technical Event "*Murious17*" in collaboration with IEEE student branch, JUIT and ACM, JUIT from Feb 24-26, 2023 at Jaypee University of Information Technology, Himachal Pradesh, India.
17. Organized Photoshop bootcamp 2022 by Technical Sciences and Photography club, JUIT, from Nov 07-09, 2022
18. Organized Student Interaction by Prof. B.R. Mehta Ji, DRID, JIIT from Aug 03-05, 2022
19. Organized Technical Event "R& D expo" in collaboration with IEEE student branch, JUIT and ACM, JUIT on April 29 – May 1, 2022 at Jaypee University of Information Technology, Himachal Pradesh, India.
20. Organized Technical Event "*Murious16*" in collaboration with IEEE student branch, JUIT and ACM, JUIT from March 25-27, 2022 at Jaypee University of Information Technology, Himachal Pradesh, India.
21. Organized IEEE WIE event "Minscape 2.0", Nov 19-21, 2021.
22. Organized IEEE Sight event "Revival SIGHT", Oct 8-10, 2021
23. Organized, coordinated, and judged Technical Event "R& D expo" in collaboration with IEEE student branch, JUIT and ACM, JUIT on April 30 – May 2, 2021 at Jaypee University of Information Technology, Himachal Pradesh, India in online mode.
24. Organized three day workshop on "*Perception towards IPR*" from February 10-12, 2020, by IPR cell at Jaypee University of Information Technology, Himachal Pradesh, India.
25. Organized Technical Event "*Murious X4*" in collaboration with IEEE student branch, JUIT and ACM, JUIT from February 10 - 12, 2020 at Jaypee University of Information Technology, Himachal Pradesh, India.
26. Organized three day workshop on "*Biomedical Signal Processing in Computer Vision - Techniques and Advancements*" by the experts from ADInstruments, New Delhi from October 10-12, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departments/Electronics/3daysworkshoponBiomedicalSignal.pdf>
27. Organized three day workshop on "*Computational Tools and Techniques for Biomedical Signal Processing- Advances in Biomedical Engineering*" by the experts from Biopac, New Delhi, India from October 10-12, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departments/Electronics/3daysworkshoponComputationalTools.pdf>
28. Organized three day "Institutional visit of M.Sc. Students" of Sambalpur University, Odisha from February 28 to March 2, 2018 in JUIT Wagnaghat.
29. Chairperson of Technical Event "*Murious XII*" in collaboration with IEEE student branch, JYC and ACM, JUIT from February 10 - 12, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.
30. Organize three days National Symposium on Medical Image Acquisition, Processing & Analysis from November 20 -22, 2017 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/symposium/oc.html>
31. Organized three day workshop on "*Bio Medical Signal Processing (Wired techniques v/s Wireless techniques)*" by the experts from ADInstruments, New Delhi from September 21–23, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
[http://www.juit.ac.in/departments/electronics/ad\\_instr.pdf](http://www.juit.ac.in/departments/electronics/ad_instr.pdf)



32. Organized three day workshop on “*Inquiry-Based Biomedical Signal Processing Laboratory: From Practice to Simulation*” by the experts from Biopac, New Delhi, India from September 21–23, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departments/electronics/biopac.pdf>  
[http://www.juit.ac.in/ipr/onedayworkshop-IPR\\_feb27\\_2017.pdf](http://www.juit.ac.in/ipr/onedayworkshop-IPR_feb27_2017.pdf)
33. Organized Technical Event “*Murious XP*” in collaboration with IEEE student branch, JUIT and ACM, JUIT from February 10 - 12, 2017 at Jaypee University of Information Technology, Himachal Pradesh, India.  
[http://www.juit.ac.in/lrc/hilly/Hilly\\_Ramblings\\_Nov16\\_Feb17.pdf](http://www.juit.ac.in/lrc/hilly/Hilly_Ramblings_Nov16_Feb17.pdf)
34. Organized Technical Event “*Murious X*” from January 29 - 31, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.
35. Organizing Committee member of 4th IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 21-23, 2017.  
[http://www.juit.ac.in/ispcc\\_2017/](http://www.juit.ac.in/ispcc_2017/)  
[http://www.juit.ac.in/ispcc\\_2017/includes/Organizing%20Committee.pdf](http://www.juit.ac.in/ispcc_2017/includes/Organizing%20Committee.pdf)
36. Organizing Committee member of 2015 IEEE International Conference on signal processing and control (ISPCC 2015), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 24-26, 2015.  
[http://www.juit.ac.in/ispcc\\_2015/org\\_committee.php](http://www.juit.ac.in/ispcc_2015/org_committee.php)  
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7369479>
37. Organizing Committee member of 2013 IEEE International Conference on signal processing and control (ISPCC 2013), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 26-28, 2013.  
[http://www.juit.ac.in/ispcc\\_2013/org\\_committee.php](http://www.juit.ac.in/ispcc_2013/org_committee.php)
38. Organizing Committee member of The International Conference on Signal Processing, computing and control (ISPCC 2012), March 15-17, 2012, JUIT, Solan, India.  
[http://www.juit.ac.in/ISPCC/org\\_committee.php](http://www.juit.ac.in/ISPCC/org_committee.php)

## Two days

1. Organised RIDA HACK from Sept 25-26, 2025.
2. Organised and Attended Phase 3 of RIDE HACK'24 at JITT Noida on Nov 23-24, 2024.
3. Organised Workshop on Innovations in Federated Learning: Python Applications & Research Exploration" hosted by WIE IEEE JUIT SB from September 24-25, 2024.
4. Organised and Attended Phase 2 of RIDE HACK'24 at JITT Noida on Sept 28-29, 2024.
5. Organised workshop on “Smart Living: Harnessing Sensor Fusion for Home Automation” by IEEE JUIT SB in collaboration with IEEE R10 education activities and IEEE Delhi section from August 22-23, 2024, in ECL6, Jaypee University of Information Technology, Solan, Himachal Pradesh, India.
6. Organised “International Leadership Summit”, by IEEE WIE AG Delhi Section from Aug 10-11, 2024.
7. Organised workshop on "Wings of Innovation" by the IEEE JUIT-SB from August 05-06, 2024.
8. Organised two day hands on workshop for Technical staff on 3D printing technology from June 20-21, 2024 in collaboration with TIEDC, IEEE JUIT SB and IIC, JUIT.
9. Organized EXPANSE 3.0 X BIOHACKATHON, 18-hour hackathon, in collaboration with Synapse (Department of BT/BI, JUIT) and Technical Movies and Photography Club of JYC, JUIT on 8th March, 2024.
10. Organised Hack-a-Care: Hackathon for a Cause by the Rotaract Club of Wagnaghat along with Center of Excellence on AI based Education orchestrated from 28th – 29th October, 2023.
11. Organised “Concept Catalyst, Ideation'23” in collaboration with Technical Sciences, Movies and Photography Club, TIEDC, IEEE JUIT SB, SIAM and ACM at Jaypee University of Information Technology from Oct 8-9, 2023.
12. Organised two-day Photoshop Workshop, by Technical Sciences, Movies and Photography Club, TIEDC, IEEE and ACM at Jaypee University of Information Technology from Oct 4-5, 2023.
13. Organized two days workshop on Intellectual Property Rights (IPR) Awareness Programme by the IPR cell, Jaypee University of Information Technology (JUIT) in collaboration with Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE) under National Intellectual Property Awareness Mission (NIPAM 2.0) by Office of Controller General of Patents, Designs and Trademarks (CGPDTM), Department for Promotion of Industry and Internal Trade (DPIIT) at Jaypee University of Information Technology, Solan on March 15-16, 2023.
14. Organised visit of B.R. Mehta Ji, VC JIIT Noida & Director, Research, Innovation and Development and Vishal Chadha Ji, International Cooperation, Emerging Technologies Centre and RIDE (Research, Innovation, Development & Entrepreneurship) from February 20-21, 2023, at JUIT

15. Organised “ National Start up day”, Technology Incubation and Entrepreneurship Development Cell (TIEDC), Jan 15-16, 2023, JUIT.
16. Presentation of Pre-startup projects and interaction with first year students, Nov 17-18, 2022 at Jaypee University of Information Technology, Himachal Pradesh, India.
17. Organized “ Impractical Ideation” in collaboration with IEEE student branch, and TIEDC from Nov 10-11, 2022 at Jaypee University of Information Technology, Himachal Pradesh, India.
18. Organized 1 slide presentation (ISP) from Sep 12-13, 2022
19. Organized “Meraki - Put your heart and soul in what you do”, to celebrate IEEE SIGHT Day 2022 by IEEE SIGHT JUIT Student branch on 2nd - 3rd May 2022
20. Organized cyber security event CyberVerse 2021, on September 11-12, 2021.
21. Organized Technical Event “Murious X5” in collaboration with IEEE student branch, JUIT and ACM from April 24-25, 2021 at Jaypee University of Information Technology, Himachal Pradesh, India in online mode.
22. Organizing Committee member/ National Advisory Board member of International Conference on Smart IOT Applications, Pallavi Engineering College, Hyderabad, Telangana, February 2021.  
<https://www.icsia.net/national-committee.php>
23. Organizing Committee member/ National Advisory Board member of 4th International Conference on Communication Systems (ICCS-2019)”, Oct 18 & 19, 2019 ,B K Birla Institute of Engineering & Technology (BKBIET)  
<http://icocs.in/national.php>
24. Organizing Committee member/ National Advisory Board member of International Conference on Recent Trends in Engineering, Management and Science-2019 (ICRTEMS-2019), September 26 - 27, 2019, Delhi Institute of Technology Management & Research (DITMR), Faridabad, Haryana  
<http://icrtems.com/advisory.php>
25. Organizing Committee member of International Conference on Contemporary Engineering Technology and Management (ICCETM-19), RadissonJass, Shimla, May 30- 31, 2019  
<http://iccetm.com/organizing-committee.php>
26. Organized two day Workshop on “ Latest EDA tools for electronic circuit design: Xilinx Vivado, HSPICE ”, October 31-November 01, 2018 at Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Wanknaghat, Solan, H.P. in collaboration with CoreEL Technologies, Delhi.  
<http://www.juit.ac.in/departement/Electronics/WorkshoponLatestEDATools31-Nov012018.pdf>
27. Organized, coordinated, and Judged two day Technical Event “R& D expo” in collaboration with IEEE student branch, JUIT and ACM, JUIT on April 13-14, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.
28. Organized two day workshop “*Implementation and Applications of Different Sensors using LabView*” on November 06 -07, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with National Instruments.  
<http://www.juit.ac.in/departement/Electronics/LabVIEW%20reportNov%206-7%202017.pdf>
29. Organized “Orientation Program for First year Students”, Aug 11 – 12, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.

#### One day

1. Organised hands-on workshop "App Development: A Beginner's Workshop" in collaboration with IIC and Enkindle Club on July 24, 2025.
2. Organised Hands-on Workshop: Web Development with UI/UX Fundamentals” on July 23, 2025 by IEEE JUIT Student Branch and ACM Student Chapter of Jaypee University of Information Technology (JUIT).
3. Organised Robotics: A Beginner's Workshop" (with a focus on Innovation and Business in the Limelight) in collaboration with Enkindle Club on on July 22, 2025.
4. Organised Bootcamp on Introduction to Artificial Intelligence in collaboration with SIAM on July 21, 2025.
5. Organized a workshop on “*Fostering a Culture of Innovation: Best Practices in Research*” on July 19, 2025 at JUIT.
6. Organised one day workshop “Bright Minds, Secure Networks: The Future of Cyber security” , as part of the Golden Jubilee celebration of IEEE Delhi Section and Women in Engineering Day 2025 on June 26, 2025
7. Organised Panel Discussion on Cybersecurity Reimagined: Innovating with Insight and Illumination, as part of the Golden Jubilee celebration of IEEE India Council and Women in Engineering Day 2025 on June 27, 2025
8. Organised Brain Buzz Quiz with Mind and Momentum on June 23, 2025

9. Organized a Tech Talk on "The Rise & Rise of Biometric Systems" "by IEEE India Council Women in Engineering (WIE), on May 27, 2025.
10. Organised WiE chair meet by IEEE India Council Women in Engineering (WIE) on April 18, 2025 at G.L. Bajaj Institute of Technology & Managemnet, Greater Noida.
11. Moderated Panel discussion on "Empowering women engineers: Strengthening collaboration for collective impact and growth through IEEE" on April 18, 2025 at G.L. Bajaj Institute of Technology & Managemnet, Greater Noida.
12. Organised event "IEEE: A Magical door to professional Network " by IEEE India Council Membership Development Committee, in association with IEEE Delhi Section, IEEE Kolkata Section and IEEE Rajasthan Subsection on April 6, 2025.
13. Organised "InnovateX 2025 - A Spectacle of Innovation" in honor of visit of our PC Sh Manoj Gaur Ji and CEO Sh Manu Gaur ji on March 25, 2025
14. Organised "Electrcial Science Session" by IEEE JUIT SB on March 21, 2025.
15. Organized an event "Women in Leadership: Driving Innovation and Impact" to celebrate International Woman's Day by IEEE India Council Women in Engineering (WIE)on March 8, 2025
16. Organized a talk on "Silicon Innovation Meets AI" by IEEE India Council Women in Engineering (WIE)on 28 February 2025
17. Organised "Echoes of Insporation" in honor of visit of Brother Jerome on Feb 5, 2025Organised WiE chair meet by IEEE India Council Women in Engineering (WIE) on January 31, 2025 in online mode.
18. Organised Future Business Sharks 3.0, January 29th, 2025 in LT-3, JUIT
19. Organised Career Conclave In collaboration with IEEE SIGHT Delhi Section on Jan 31, 2025
20. Organised Poster design competition from Special WIE and Education Track during IEEE International Conference TENSYP2024 at NSUT, Delhi on Sept 28, 2024.
21. Organised All India Elocution Competition (Internal Round) on the topic: India's Imbalanced Development – Causes and Solutions 'भारत का असंतुलित विकास: कारण एवं हल', on Sept 30, 2024, WIE AG IEEE JUIT SB.
22. Eureka- Engineer's day by RACW and Centre of Excellence " AI for Education" Sept 15, 2024.
23. Organised workshop on "Awareness of Organ Donation" by DRISHTI, SIGHT IEEE JUIT SB & Environment, Ecology and Health Club, JYC by Prof. Puneet Mahajan, Department of Surgery, Indira Gandhi Medical College, Shimla (IGMC) Shimla in collaboration with State Organ and Tissue Transplant Organisation (SOTTO) HP, and Rotary Club Shimla Hill Queens on August 28, 2024.
24. Organised Care in a Kit: First Aid Essentials by DRISHTI, SIGHT IEEE JUIT SB on August 22, 2024
25. Organised Podcast "Insight for Sight", by IEEE SIGHT JUIT SB in collaboration with SIGHT, IEEE Delhi Section on Aug 2, 2024.
26. Organised "Teshtrek" Meme making competiotion by IEEE WIE JUIT SB in collabotaion wth SIGHT, IEEE Delhi Section on Aug 2, 2024.
27. Organised Guessing Guns, Membership Development Committee, IEEE Delhi Section, May 12, 2024.
28. Organised Photography Competition for the students on the theme 'Today's Technology' to celebrate National Technology Day by Institution's Innovation Council (IIC) of Jaypee University of Information Technology (JUIT), Wagnaghat, with Jaypee Youth Club's Technical, Movie, and Photography Club, on May 11, 2024.
29. Organised Exhibit Expanse on April 5, 2024, and Innovation Expo on May 4, 2024.
30. Organized Debate / Group Discussion Event on "Artificial Intelligence - Boon or Curse", by Center of Excellence in "Artificial Intelligence for Education", on March 21, 2024
31. Organised Finnvestor by Technology Incubation & Entrepreneurship Development Cell (TIEDC) and Institution's Innovation Council (IIC) on 5th March, 2024.
32. Organised Unlocking Creativity: An Introduction to Generative AI, Machine Learning, and Python by IEEE JUIT Student Branch and and Institution's Innovation Council (IIC) on 6th March, 2024.
33. Organised CYBERSAVVY: Securing Your Digital World, by Institution's Innovation Council (IIC) on 7th March 2024.
34. Organised Storage Wars-Innovation ThinkBox by Technology Incubation & Entrepreneurship Development Cell (TIEDC) and Institution's Innovation Council (IIC) on 9th March, 2024.
35. Organised LinkedIn Workshop with Aditi Sharma, 20th January, 2024, 6:00 pm, hosted by the Rotaract Club of Wagnaghat.
36. Organised Poster Making Competition on Theme Pollution Control to celebrate National Pollution Control Day on Dec 02, 2024 by IIC, JUIT.



37. Poster Making Competition on Theme Energy Conservation to celebrate National Energy Conservation Day on Dec 14, 2024 by IIC, JUIT
38. Organised Quiz Competition on GST at District level by State Taxes & Excise for 55<sup>th</sup> Foundation Day on Nov 25, 2023 at JUIT
39. Organised Innovate-a-thon to celebrate Innovation Day in collaboration with IEEE JUIT SB, ACM JUIT, SIAM JUIT, TIEDC, and Technical and Sciences Club (JYC), Jaypee University of Information Technology. October 15, 2023.
40. Organised "Tech Mavens" by IEEE Women in Engineering (WIE) , JUIT SB, the IEEE WIE Affinity Group (WIE AG) Delhi Section and YMCA Faridabad SB, 7<sup>th</sup> Oct, 2023.
41. Organized "Future Business Sharks 2.0" in collaboration with IEEE JUIT SB, ACM JUIT, SIAM JUIT, TIEDC, and Technical and Sciences Club (JYC), Jaypee University of Information Technology. September 27, 2023.
42. Organized TECHWHIZ - The Engineer's Quest in collaboration with IEEE JUIT SB, ACM JUIT, SIAM JUIT, TIEDC, Alumni Cell, and Technical and Sciences Club (JYC), Jaypee University of Information Technology to commemorate National Engineer's Day, September 15, 2023.
43. Academic staff in-service training program for vocational trainers in the telecom industry by District Institute of Education and Training (DIET), Shimla from August 7-11, 2023, with experts from JUIT on August 9, 2024.
44. 5-day in-service Training Programme for Vocational Trainers in the Telecom Industry by District Institute of Education and Training (DIET), Shimla from July 24-28, 2023, with experts from JUIT on July 26, 2024.
45. Organised visit of Professor C R Suri (Chairman of the Management Committee of DST-TEC), Professor Rupinder Tewari (DST appointed mentor of DST-TEC), and Professor Manu Sharma (Coordinator of TEC) on June 10, 2023 (Saturday), at JUIT.
46. Organized one day seminar on Sensitization of UG/PG students in occasion of World IPR day by IPR cell, JUIT on April 26, 2023.
47. Organised "Style Wars" by IEEE JUIT-SB in collaboration with IEEE WIE AG Delhi on 22nd April 2023 at Jaypee University of Information Technology (JUIT), Wagnaghat, Himachal Pradesh, India
48. Organised 18-hour hackathon, by IEEE-JUIT SB in collaboration with IEEE Delhi Section and IEEE YMCA SB at Jaypee University of Information Technology (JUIT), Wagnaghat, Himachal Pradesh, India on April 22, 2023.
49. Organised visit of Sh. Anil Mohan Ji, Sr. President, Jaypee Associates Ltd, and Sh. D.S. Ahuja Ji, Director, Kanpur Fertilizers and Chemical Ltd (KFCL) on April 10, 2023 at JUIT.
50. Organised Zero Discrimination Day, on 1st March, 2023, by Complaint against Caste Based Committee, JUIT Wagnaghat
51. Organised The Bridge : Tech to Innovation, Industry Academia Collaboration conducted by IEEE JUIT SB and Technology Incubation and Entrepreneurship Development Cell (TIEDC) in collaboration with IEEE R10 region, India Council, Industry Relation & Education Activities of IEEE Calcutta, & IEEE Delhi Section organized at Jaypee University of Information Technology, Solan, Himachal Pradesh on Friday, November 11, 2022.
52. Organized "Designing Competition" by WIE, IEEE , Solan, Himachal Pradesh on Wednesday, November 12, 2022
53. Organized the Donation Drive "PAUSE FOR THE CAUSE" by IEEE SIGHT JUIT-SB in collaboration with IEEE JUIT-SB on November 5, 2022, at 2:00 PM with the intent to thank all the dedicated workers of Jaypee University of Information Technology, Wagnaghat.
54. Organised Coding Contest "In the Loop" by IEEE JUIT-SB in collaboration with IEEE MDC at Jaypee University of Information Technology (JUIT), Solan, Himachal Pradesh on Wednesday, October 12, 2022
55. Debate/Declamation "Caste system and Its perspective in Present scenario" on 23rd August 2022 by Caste Based Discrimination Committee, JUIT.
56. Organised, Ayushman Bharat Diwas, May13, 2022
57. Organised Denim Products Donation Drive, 2nd April 2022
58. Organized IEEE Day, Oct 5, 2021
59. Inaugural Ceremony of "DRISHTI" - IEEE SIGHT JUIT, October 01 , 2021
60. Organized, GitHub, HACKTOBERFEST conducted by Digital Ocean, 30th September, 2021
61. Organized CETPA Workshop on Python, September 02, 2021
62. Celebrated Women Equality Day, August 26, 2021, by ICC Committee, JUIT, Solan.  
<https://www.juit.ac.in/committees/juit/icc/WomenEqualitydayreport.pdf>
63. Celebrated IEEE WIE day on June 24, 2021 at 7:00PM by organized project presentation by girls' students of JUIT, Solan

64. Organized "Applied Statistics for Data Science" Workshop by Parth Sharma, the Chief Data Scientist at Jasper Coilin Research on 7th May 2021 at 4:00 PM by WIE-IEEE JUIT SB in association with AI probably
65. Judged a debating competition on the topic "Swami Vivekananda and Hindu Supremacy" on the auspicious occasion of National Youth Day on 12th January 2021 organized by JUIT Youth Club, JUIT, Solan
66. Organized Pop Quiz on August 2, 2020 at 7 PM
67. Organized Teacher's Day Tribute on Sept 5, 2020
68. Organized Aagman (Fresher's) on Sept 5, 2020 at 6:15PM
69. Organized Rachna on September 19, 2020
70. Organized one day workshop on "MATLAB 2018b and recent toolbox add-ons" on January 10, 2019 at Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Wanknaghat, Solan, H.P.
71. Organized one day workshop on "Design and Analysis of a Thermoelectric Generator for Energy Harvesting System from Chullas", in collaboration with HIMCOSTE at Matal&Bakhog Panchayat on December 03, 2018.
72. Organized one day on "Patent Filing and Geographical Indications of Himachal Pradesh" at Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with Himachal Pradesh Patent Information Centre, Shimla, H.P. (HPPIC) November 30, 2018.
73. Organized one day workshop on "Recent Research Trends using MATLAB" on September 12, 2018 at Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Wanknaghat, Solan, H.P.  
<http://www.juit.ac.in/departement/Electronics/One%20day%20Workshop%20on%20Recent%20Research%20Trends%20Using%20MATLAB%20-%20Sept%2012,%202018.pdf>
74. Organized one day "Visit at Advanced Studies, Shimla on July 27, 2018.
75. Organized one day "Visit at Advanced Studies, Shimla on July 22, 2018.
76. Organized Industrial Visit of 3<sup>rd</sup> year ECE students on April 13, 2018 at CDAC Mohali.
77. Organized one day workshop on "Internet of Things" in collaboration with CDAC, Mohali under the expert guidance of Ms. Harsimranjeet Kaur and her staff on February 12, 2018 in JUIT Wanknaghat.
78. Organized one day "Visit to JUIT for St.Lukes, Solan 11<sup>th</sup> and 12<sup>th</sup> Medical and Non-Medical students" on November 2, 2017 in JUIT Wanknaghat.
79. Organized one day workshop "Patent Drafting" on October 13, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with Himachal Pradesh Patent Information Centre, Shimla, H.P. (HPPIC).  
<http://www.juit.ac.in/ipr/IPR%20workshop%20noteOct%2013,%202017.pdf>
80. Organized one day "Visit to JUIT for Pinegrove 11th and 12th Medical and Non-Medical students" on July 29, 2017 in JUIT Wanknaghat.
81. Organized one day Technical Event "R& D expo" in collaboration with IEEE student branch, JUIT and ACM, JUIT on May 6, 2017 at Jaypee University of Information Technology, Himachal Pradesh, India.
82. Organized one day workshop "Patent Filing & Geographical Indications" on Feb 27, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with Himachal Pradesh Patent Information Centre, Shimla, H.P. (HPPIC).
83. Organized one day workshop "Innovation & Intellectual Property Rights" on December 09, 2016, at Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with Himachal Pradesh Patent Information Centre, Shimla, H.P. (HPPIC).  
<http://www.juit.ac.in/ipr/workshop9Dec.pdf>
84. Organized one day workshop "Data Acquisition and Analysis system" on Dec 01, 2016, at Jaypee University of Information Technology, Himachal Pradesh, India.  
[http://www.juit.ac.in/departement/electronics/onedayworshop-report\\_ECE.pdf](http://www.juit.ac.in/departement/electronics/onedayworshop-report_ECE.pdf)
85. Organized One day workshop on "VLSI Design using Verilog and FPGA", April 14, 2015, at Jaypee University of Information Technology, Himachal Pradesh, India

#### **DELIVERED WEBINARS :**

1. Delivered webinar on "IEEE Beyond Membership" an exclusive session highlighted on "Best Practice for SB's on February 20, 2025 by IEEE India Council Membership Development Committee & IEEE Delhi Section 2025.

2. Delivered Webinar on “ENRICHING THE KNOWLEDGE OF BMEST”, on Oct 30, 2021 at 10:00AM to Dr. N.G.P Institute of Technology, Coimbatore

#### ORGANISED WEBINARS :

1. Organized webinar of *Ms. Kritika Tewari*, Alumni ECE on “Issues and Trends in Contemporary Indian Education” on August 08, 2020 at 11:00AM.
2. Organized webinar of *Ms. Namarat Jain*, counseling Psychologist, TEDx Speaker, Life coach, Founder of Out – a-load, on “Mental Health” on August 08, 2020 at 06:00PM as Rotaract Chairman
3. Organized webinar of *Ms. Tarunam*, Alumni ECE, worked as Network Engineer Ericsson for 3 years, and pursuing Masters degree in Engineering Management from Duke University in the United States on “Design Thinking for Innovation” on August 21, 2020 at 05:00PM.
4. Organized webinar of *Mr Ashish*, Alumni ECE, Adjunct Professor, Illinois Research Climatologist on “Interdisciplinary approaches to improve resiliency at scales for humans and ecosystems to thrive” on Saturday, August 29, 2020 at 9:00AM.
5. Organized webinar of *Mr. Sanjay*, Alumni ECE, Project Manager Infosys Ltd, "An Introduction to AR-VR (Augmented Reality Virtual Reality) and the way transforming the world we live in", on Saturday, Sept 05, 2020 at 3:00PM.
6. Organized webinar of *Prof. Celia Shahnaz* (Professor, Department of EEE, BUET, Bangladesh) on "Research and Innovation to lead the smart world", Thursday, Sept 10, 2020 at 3:00PM.
7. Organized webinar on “She is Empowered”, on Sep 17, 2020 at 4:00PM by Internal Complaint Committee, JUIT, Solan, H.P., India
8. Organized webinar of *Mr. Gaurav Joshi's* on “Telecom Technologies, their evolution and RF optimization of KPIs”, on Saturday, September 19, 2020 at 10AM(IST)
9. Organized webinar of *Dr. Manjeet Singh* (Doctor, Fortis Hospital) on “HRIDAYAM : My role during a chest pain”, Tuesday, September 29, 2020 at 7:30PM
10. Organized webinar of *Mr. Shubhender Singh* (Embedded Engineer in Continental AG) on “Advanced Driver Assistance Systems (ADAS), Saturday, October 3, 2020 at 11:00 AM.
11. Organized webinar of *Ms. Aastha Afsar* (Team Lead at Stellarix Consultancy Services) on “Edge Computing”, Saturday, October 10, 2020 at 11:00 AM.
12. Organized webinar of *Dr.Aushima Thakur* (Director HR at Philips in Netherlands) on “Women Empowerment”, Caste based discrimination Committee, Saturday, October 17, 2020 at 12:30PM
13. Organized webinar of *Dr. IndranilSaha* (Advocate, Founder – HIINXLEGAL) on “Patents, Innovation & Start Up's”, IPR cell, Saturday, October 17, 2020 at 14:30PM
14. Organized webinar of *Dr. Kriti* (PhD from Thapar Institute of Engineering and Technology), “Analysis and Classification of Breast Abnormalities using Ultrasound Images”, on Saturday, October 24, 2020 at 11:00AM.
15. Organised webinar on “*SHE Talks*”- an interactive session with *Urvi Verma*, UPSC Civil Services Exam on 08-03-2021 at 7:00PM to celebrate International Women Day.
16. Organised webinar on “*Women Safety*” by *Dr. Deepa Rathore*, Clinical Psychologist DDU ZH, Ripon, Shimla, on June 24, 2021 at 11:00am by Internal Complaint Comm, JUIT Solan, Himachal Pradesh.
17. Organized webinar on “*IEEE Membership Drive*” by *Prof Perna Gaur* and *Prof Rachana Garg* on 19 June, 2021, at 4 PM by Membership development committee of IEEE Delhi Section
18. Organised webinar on “*IEEE Student Membership benefit*”, by *Dr. Rajesh M. Pindoriya*, IIT Mandi, September 11, 2021, 4:00PM by Membership development committee of IEEE Delhi.
19. Organised webinar on “*Why do we need to empower our women?*” by *Dr. Tanu Sharma*, HSS Department, Jaypee Group, Solan, Himachal Pradesh, Saturday, 16 October, 2021, 12:00PM, by Internal Complaint Comm, JUIT Solan, Himachal Pradesh.
20. Organised webinar on “*Benefits of IEEE Membership for UG, PG and Faculty Members*”, by *Dr. Rajesh M. Pindoriya*, IIT Mandi, October 23, 2021, 3:00PM by Membership development committee of IEEE Delhi Section in collaboration with the IEEE-JUIT Student branch.
21. Organised webinar on “*Sustainable Cities & Communities with Delhi as Case Study*” by *Dr. D. P. Kothari*, Director in-charge, Deputy Director, Head in the Centre of Energy Studies at Indian Institute of Technology, Delhi and Principal, VRCE, Nagpur, on Thursday 11 Nov 2021 at 04:00pm (IST) organized by IEEE DELHI SECTION HTC in association with DRISHTI, IEEE SIGHT, JUIT.

22. Organised webinar on “Front-end Development” by Mr.Sunny Puri SDE, at SwiggyIndia, on 13th November 2021 at 3:00 pm organized by IEEE WIE-SB, JUIT Waknaghat.
23. Organised webinar on “Coursera for Campus” by Mr. Karun Jain, Enterprise Account Director for India, on 23rd November, 2021 at 12PM , JUIT, Solan.
24. Organised webinar on “Conscious Transformation Through Sustainability” by Ms. Shubhangi Ghosh, Director Operations, Sustainable India, on March 08, 2022 at 12PM , JUIT, Solan.

## ORGANISED GUEST LECTURES

1. Organised Expert Lecture of Prof. Rakesh Bajaj, NEP Coordinator on “Role of NEP 2020 in Viksit Bharat@2047” by Institution’s Innovation Council (IIC) on 8th March 2024 from 4:00 pm.
2. Organised Expert Lecture of Dr. Hemant Sood on “Entrepreneur Unleashed: A Journey from Ideas to Impact” by Institution’s Innovation Council (IIC) on 1st March 2024 from 3:00pm.
3. Organised talk of Prof.K.K. Aggarwal, Former Chairman, National Board of Accreditation, Former Founder, Vice Chancellor, GGS Indraprastha University, Delhi and Former Chairman, Board of Governors, MNIT, Jaipur on October 09, 2024  
[https://www.juit.ac.in/RnD/Talk by Prof KK Aggarwal \(FormerNBACChairman\)Oct092023.pdf](https://www.juit.ac.in/RnD/Talk%20by%20Prof%20KK%20Aggarwal%20(Former%20NBAC%20Chairman)%20Oct092023.pdf)
4. Organized Guest Lecturer on “**Research and Innovation for sustainable and human centered solutions**” by Mr. Sanjay Singh, Project manager - Senior DevOps, Lead - mobility solutions, Infosys Limited, Ipswich, UK, on Oct 09, 2021.  
<https://www.juit.ac.in/departement/Electronics/ResearchandInnovationfosustainableandhumancentered%20olutionsOct092021.pdf>
5. Organized Guest Lecturer on “**Artificial Intelligence for Industry**” by Dr. Seshadri Sastry Head Scientist Third Presence, Andhra Pradesh, India on Oct 09, 2021.  
<https://www.juit.ac.in/departement/Electronics/ArtificialIntelligenceforIndustryOct092021.pdf>
6. Organized Guest Lecturer on “**AI based Motion Control**” by Dr. Prof (Dr.) Prerna Gaur, Director, Netaji Subhas Institute of Technology, East Campus, Delhi on Oct 08, 2021.  
<https://www.juit.ac.in/departement/Electronics/AIbasedMotionControlOct082021.pdf>
7. Organized Guest Lecturer on “**Aspects of Time and Space in Wireless Connectivity beyond 5G**” by Prof. (Dr.) Peter Popovski, Ph. D., FIEEE, Villum Investigator Professor, Head of the Section on Connectivity, Department of Electronic Systems, Aalborg University, Denmark, Member-at-Large IEEE ComSoc Board of Governors on Oct 08, 2021.  
<https://www.juit.ac.in/departement/Electronics/AspectsofTimeandSpaceinWirelessConnectivitybeyond5GOct082021.pdf>
8. Organized Guest Lecturer on “**Intelligent Techniques for Autonomous Landing on Mars**” by Dr. Vinod Kumar, Scientist-Engineer 'G', Division Head (GCDAD), Control Dynamics Design Group U. R. R. Satellite Centre, Bangalore-560017, India on Oct 07, 2021.  
<https://www.juit.ac.in/departement/Electronics/IntelligentTechniquesforAutonomousLandingonMarsOct072021.pdf>
9. Organized Guest Lecturer on “**Machine Learning in Communication Networks- Applying neural networks to traffic prediction and control**” by Dr. Piotr Cholda, Associate Professor, Institute of Telecommunications, AGH University of Science and Technology, Al. Mickiewicza 30, 30-059 Krakow, Poland on Oct 07, 2021  
<https://www.juit.ac.in/departement/Electronics/MachineLearninginCommunicationNetworksApplyingneuralnetworkstotrafficpredictionandcontrolOct072021.pdf>
10. Organized Guest Lecturer on “**Security Threats to Ad-Hoc Computing: A Perspective on Sybil Attack**” by Prof. Manu Sood, UIET, Himachal Pradesh University, Shimla on October 11, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/Electronics/ExpertTalkonSecurityThreats.pdf>
11. Organized Guest Lecturer on “**A Novel Method for Control of Wind Energy Conversion System (WECS)**” by Dr. Farhad Illahi Bakhsh, National Institute of Technology Srinagar on October 11, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/Electronics/ExpertLectureANovelMethod.pdf>
12. Organized Special talk on “**Advancements methods of Biomedical Signal Processing**” by Mr. Muketesh Sharma, AD Instruments, New Delhi on October 11, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/Electronics/SpecialTalkonAdvancementsmethods.pdf>



13. Organized Special talk on “**Tools and Techniques in Biomedical Signal Processing**” by Ms. Taranmeet, Biopac Systems (*Gentech Marketing & Distribution Pvt. Ltd*) on October 10, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/department/Electronics/SpecialtalkonToolsandTechniques.pdf>
14. Organized Guest Lecturer on “**Biomedical Signals and Image Analysis for Affordable Diagnostic**” by Prof. Dinesh Kant Kumar, (Biomedical Engineering), RMIT University, Melbourne, Australia on October 10, 2019, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/department/Electronics/ExpertTalkonBiomedicalSignals.pdf>
15. Organized Guest Lecture on “**Antenna Design for 5G and IoT Communications**” by Dr. Ashwani Kumar, Department of Electrical Engineering, IIT Ropar on April 18, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/department/Electronics/ExpertlectureonAntennaGuidelinesfor5GandIOTCommunications.pdf>
16. Organized Guest Lecture on “**HDL based System Design**” by Dr. M. Wajid, Department of Electronics Engineering, AMU, Aligarh on April 15, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/department/Electronics/ReportExpertlectureonHDLApril152019.pdf>
17. Organized Guest Lecture on “**Stress Management Moral Values and Life management**” by Swami Dheera Nand, Divya Jyoti Jagrati Sansthan, Kapoor Bahwan, Shimla on April 08, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India.
18. Organized Guest Lecture on “**Compressed Sensing: Beating the Nyquist Sampling**” by Prof. (Dr.) Debashis Ghosh, Head of the Department, Department of Electronics & Communication Engineering, IIT Roorkee on March 23, 2019 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/department/Electronics/ExpertlectureMarch232019.pdf>
19. Organized Guest Lecture on “Patents on Computers and Electronics” by Mr. Mayank Sood, Partner in the K& S Technology Group on February 22, 2019, IPR Cell at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/ipr/Guest%20Lecture%20by%20Mr.%20Mayank%20Sood%20%20Feb%2022,%202019.pdf>
20. Organized Guest Lecture on “Plant Genetic Resources: what can they contribute toward breaking yield barriers, case study in grain legumes” by Dr. Mohar Singh, Principle Scientist cum office In charge ICAR-NBPGR Research Station, Shimla on March 16, 2018, in association with ACM Student Chapter & CSI Chapter and IPR Cell at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/ipr/Guest%20Lecture%20by%20Dr%20Mohar%20Singh.pdf>
21. Organized Guest Lecture on “Telemedicine” by Mr. Sanjay Sood, Joint-Director CDAC, Mohali on February 11, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.
22. Organized Guest Lecture on “Latest Technologies and the Future Boon” by Dr. J.K. Chhabra, Professor CSE Department, NIT Kurukshetra on February 11, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.
23. Organized Guest Lecture on “7D’s of success” by Dr. Pramod Shrestha, Nepal's first Professor in Mechanical Engineering on February 11, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.
24. Organized Guest Lecturer on “*How to work with Bull’s Eye*” by Ms. Gundeep Kaur, Bull’s Eye on Feb 09, 2018, at Jaypee University of Information Technology, Himachal Pradesh, India.
25. Organized Guest Lecturer on “Mobile Phones, Wearable’s, Artificial Intelligence and Your Heart!” by Prof. Peter Macfarlane, Electro cardiologist, University of Glasgow on October 9, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/www.juit.ac.in/department/Electronics/Dr%20Peter%20report.pdf>
26. Organized popular lecture Series “*Issues Related to Environment*”, by Dr. Vandana Shiva on September 23, 2017 at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/attachments/Write%20up%20for%20Dr%20Shiva.pdf>
27. Organized Guest Lecturer on “*Development of Advanced Image and Signal Processing Techniques for Disease Diagnostic Devices: Process and Examples*” by Prof. Dinesh Kant Kumar, (Biomedical Engineering), RMIT University, Melbourne, Australia on September 22, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/department/electronics/Prof%20Dinesh%20Kumar.pdf>
28. Organized Guest Lecturer on “*Sensors and Signals in Clinical Monitoring and Diagnosis of Disease*” by Prof. Panicos Kyriacou, Professor of Biomedical Engineering City University London on September 21, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.

- <http://www.juit.ac.in/departement/electronics/Prof%20Kryicous.pdf>
29. Organized Guest Lecturer on “*Medical Imaging – Acquisition Processing Analysis & Applications*” by Prof. (Dr.) H.K. SARDANA Chief Scientist, CSIO Chandigarh on September 21, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/electronics/Prof%20Sardana.pdf>
  30. Organized Guest Lecturer on “VLSI Design and IOT”, Shri Vivek Sheel Dutt and Shri Kirti of DKOP Labs Pvt. Ltd., Noida, on March 07, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/electronics/DKOP%20lab%20report.pdf>
  31. Organized Talk on “Tech Talk on Robotics”, of Mr. Diwakar Vaish, Head of Robotics and Research, A-SET Training and Research Institutes on February 11, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.  
[http://www.juit.ac.in/lrc/hilly/Hilly\\_Ramblings\\_Nov16\\_Feb17.pdf](http://www.juit.ac.in/lrc/hilly/Hilly_Ramblings_Nov16_Feb17.pdf)
  32. Organized Guest Lecturer on “Biomedical Image Processing”, of Dr. Jyotindra Singh Sahambi, Head of Electrical Engg Department, IIT Ropar on Sept 30, 2016, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/electronics/Dr%20Sahambi%20report.pdf>
  33. Organized Guest Lecturer on "Laser In Homeland Security And Defence" of Mr Hari Babu, Director Lastec, DRDO, Delhi on Sept 27, 2016, at Jaypee University of Information Technology, Himachal Pradesh, India.  
<http://www.juit.ac.in/departement/electronics/hari%20babu%20report.pdf>
  34. Organized Guest lecture on “Satellite Communication Trends”, February 20, 2015, at Jaypee University of Information Technology, Himachal Pradesh, India.

## ATTENDED CONFERENCES

1. International Conference on Machine Learning and Data Engineering, UPES Dehradun, India, September 07-08, 2022 (Online) Procedia Computer Science Journal, Elsevier.
2. International Conference in Mobile Radio Communications and 5G Networks MRCN-2022, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, August 05-06, 2022 (Springer)
3. Maiden edition of IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON 2022), February 11-13, 2022.
4. IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE), Dhaka Bangladesh, Dec 3-5, 2021.
5. 7th International Conference on Signal Processing and Communication (ICSC), November 25-27, 2021.
6. 2021 6<sup>th</sup> International Conference on Image Information Processing, November 26 - 28, 2021
7. 6th International Conference on Signal Processing, Computing and Control (ISPCC2K21), October 07-09, 2021
8. 2021 IEEE International Conference on Computing, Power and Communication Technologies (GUCON), September 24-26, 2021
9. Mobile Radio Communications and 5G Networks, Springer, Singapore, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, June 23-24, 2021
10. The 4<sup>th</sup> International Conference on Recent Innovations in Computing (ICRIC-2021), May 08-09, 2021, Central University of Jammu, J & K.
11. International Conference in Emerging Convergent Technologies and Biological Systems (ETBS 2021), University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra, April 28-29, 2021 (Springer)
12. 2nd International Conference on Soft Computing for Intelligent Systems, (SCIS-2020) organized by University Institute of Engineering & Technology Kurukshetra University, Kurukshetra from 24th-25th December 2020 (online mode)
13. International Conference on Innovations in Information and Communication Technologies, ITS, Mohan Nagar, Ghaziabad, UP, India, 7-8 November, 2020
14. 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information Technology, Waknaghat, India, November 06-08, 2020 (online mode)
15. Soft Computing Research Society and Congress on Intelligent Systems (CIS) 2020, from September 05-06, 2020 (online mode)
16. 1st International Conference on Mobile Radio Communications and 5G Networks MRCN-2020, U.I.E.T-KUK, July 13-15, 2020 (Springer) (online mode)

17. IEEE International Conference on Computational Performance Evaluation (ComPE) North - Eastern Hill University, Shillong, Meghalaya, India, Jul 2-4, 2020 (online mode)
18. The 3rd International Conference on Recent Innovations in Computing (ICRIC-2020), 20-21 March, 2020, Central University of Jammu, J & K (online mode)
19. 2019 Fifth International Conference on Image Information Processing (ICIIP), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, November 15-17, 2019.
20. 5<sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2k19), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, October 10-12, 2019.
21. International Conference on Computational Intelligence and data Science (ICCIDS 2019), North Cap University, Gurugram, India, September 06-07, 2019.
22. 3<sup>rd</sup> International Conference on Advanced Informatics for Computing Research (ICAICR-2019), Shimla, India, June 15-16, 2019
23. 5<sup>th</sup> International Conference on Signal Processing and Communication (ICSC-2019), March 07-09, 2019, Jaypee Institute of Information Technology, Noida (INDIA).
24. 2nd International Conference on Recent Innovations in Computing (ICRIC-2019), March 08 – 09, 2019, Central University of Jammu, J & K
25. International Conference on Sustainable Computing in Science, Technology and Management February 26 - 28, 2019, Amity University Rajasthan, Jaipur, India.
26. Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India. Dec 20-22, 2018.
27. 2nd International Conference on Advanced Informatics for Computing Research (ICAICR-2018), July 14-15, 2018, Shimla, India
28. International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018), Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology, Solan-173234, Himachal Pradesh, INDIA, 9-10th February, 2018.
29. 2017 Fourth International Conference on Image Information Processing (ICIIP -2017), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, December 21 - 23, 2017
30. 4<sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, September 21-23, 2017.
31. 11th INDIACOM: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 1-3, 2017.
32. 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC), December 22<sup>nd</sup> – 24<sup>th</sup>, 2016, Jaypee University of Information technology, Wanknaghat, Solan, H.P, India
33. 10<sup>th</sup> INDIACOM: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 16<sup>th</sup> – 18<sup>th</sup>, 2016.
34. 2015 IEEE International Conference on signal processing and control (ISPCC 2015), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, September 24-26, 2015.
35. Control System and Power Electronics – CSPE 2015, Bangalore, Aug 1-2, 2015.
36. International Conference on Information and Communication Technology for Sustainable Development (ICT4SD - 2015), Ahmedabad, India. July 3-4 2015.
37. National Seminar on Recent Trends in VLSI and Embedded Systems (RTVES-2014), at Jaipur National University, Jaipur, Rajasthan, India. Oct 15-16, 2014.
38. International Conference on Advances in Computing, Electronics and Communication (ICACEC), Warangal. November 30, 2014
39. National Seminar on Recent Trends in VLSI and Embedded Systems (RTVES-2014), at Jaipur National University, Jaipur, Rajasthan, India. Oct 15-16, 2014.
40. 2013 IEEE International Conference on signal processing and control (ISPCC 2013), Jaypee University of Information technology, Wanknaghat, Solan, H.P, India, September 26-28, 2013.
41. The International Conference on Signal Processing, computing and control (ISPCC 2012), March 15-17, 2012, JUIT, Solan, India.
42. 2nd International Conference on Methods and Models in Science and Technology (ICM2ST-11), Jaipur, Rajasthan, India Organized by Institution of Engineers, Technocrats and Academician Network (IETAN). November 19-20, 2011
43. International Conference on Computational Intelligence and Communication Networks (CICN2011), Gwalior, India. Oct 07-09, 2011

44. 5<sup>th</sup> International Multi Conference on Intelligent Systems, Sustainable, New and Renewable Energy Technology & Nanotechnology (IISN-2011), Institute Of Science and Technology, K LAWAD (ISTK), Ambala- Jagadhri Road, Distt. Yamuna Nagar, Haryana, India. February 18-20, 2011
45. ICWET 2010, International Conference and Workshop on Emerging Trends in Technology, Thakur College of Engineering & Technology, Mumbai, India. February 26-27, 2010
46. 2010 International Conference on Signal Acquisition and Processing, Bangalore, India. February 9-10, 2010
47. RTSCIT09, International Conference on Recent Trends in Soft Computing and Information Technology, Corporate Institute of Science and Technology, Bhopal, Madhya Pradesh, India. January 9-10, 2010
48. WECON 2009 International Conference on Wireless Networks and Embedded Systems, Chitkara Institute of Engineering and Technology, Chandigarh-Patiala National Highway, Patiala, India. October 23-24, 2009
49. IEEE International Advanced Computing Conference IACC'09, Thapar University, Patiala, Punjab, India. March 6-7, 2009
50. 3<sup>rd</sup> International Conference on Intelligent Systems & Networks (IISN-2009), Institute Of Science and Technology, K LAWAD (ISTK), Ambala- Jagadhri Road, Distt. Yamuna Nagar, Haryana, India. February 14-16, 2009
51. International conference on Advanced Computing Technologies (ICACT '08), Hyderabad, India. December 26-27, 2008
52. MNNA 2007, Indo Australian Symposium on Multifunctional Nano materials Nanostructures and Applications, Department of Physics and Astrophysics, University of Delhi, Delhi. December 19-21, 2007
53. National Seminar on Some aspects Of Recent Trends in Engineering and Technology, Punjab College of engineering & Technology, Malakpur, Lalru, Mohali, Punjab. Feb 28, 2007
54. National Conference on Wireless Networks & Embedded systems (WNES-2006), Chitkara Institute Of Engineering & Technology, Rajpura, Patiala, Punjab. July 28, 2006
55. Asian Conference on Intelligent Systems & Networks (AISN 2006), HEC Jagadhri, Haryana. Feb 24-25<sup>th</sup> 2006
56. IMS Conference-2006, Electronics Science Department, Kurukshetra University, Kurukshetra. Feb 17-18<sup>th</sup> 2006
57. National Conference on Information & Communication Technology Recent Advances & Applications (ICT 2006), JMIT Radaur, Haryana Feb 9-11<sup>th</sup> 2006
58. INNOVATIONS 2005, Baba Banda Singh Bahadur Engg College, Fatehgarh Sahib, Punjab. Nov 25-26<sup>th</sup> 2005
59. NCMTICT 2005, Maharishi Markandeshwar Engg College, Mullana, Haryana. October 20-22, 2005
60. National Conference on Intelligent Systems & Networks, HEC Jagadhri, Haryana. Feb 25-26<sup>th</sup> 2005.

## **ATTENDED SEMINARS/ WORKSHOPS/TRAINING/ GUEST LECTURES**

1. Attended course VLSI for Beginners, organized by National Institute of Electronics and Information Technology, Calicut from August 10-14, 2023.
2. Attended National Level Two Weeks Workshop on "Growing Role of Machine Learning in Cyber-Security" organized by Deptt of CSE & IT, JUIT in collaboration with IEEE JUIT SB from June 13-24, 2022.
3. Attended One Week Workshop on "Data Analytics and its Research Perspectives" organized by Deptt of CSE & IT, JUIT in collaboration with IEEE JUIT SB from June 6-10, 2022
4. Attended one week workshop on Image Processing with Deep Learning organized by Deptt of ECE and CSE & IT, JUIT from March 22-26, 2022.
5. Attended two day workshop on Safe Campus Program Session organized by the Association of Indian Universities and the Martha Farrell Foundation on July 30-31, 2021.
6. Attended one day workshop on "NPTEL Awareness" on June 15, 2019 at Jaypee University of Information Technology, Wanknaghat, Solan, H.P in collaboration with NPTEL and Swayam, IIT Roorkee.
7. Attended one day workshop on "Benchmark WiCOMM-T: Wireless Digital Communication Training System" and "Benchmark iCONSeT: An IoT Training System" on February 25<sup>th</sup>, 2019 at Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Wanknaghat, Solan, H.P.
8. Attended one day Seminar on "Innovation, Renewable Energy & Entrepreneurship" jointly organized by CESTRD (Centre of Excellent in Sustainable Technologies for Rural Development of BT BI Dept. & TIED Cell of JUIT, October 29, 2018.
9. Attended one day workshop on "Trending Wireless Devices", September 19, 2018 at Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Wanknaghat, Solan, H.P.
10. Attended National Workshop on Statistical Techniques in Biological and Medical Sciences (STBMS-2018) from June 04-09, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.



11. Attended Guest Lecture on “Compete for BIRAC Biotechnology Ignition Grant (BIG) scheme” by Dr. Udayan Chandra in charge of DBT-BIRAC (Biotechnology Research Assistance Council), New Delhi on Jan 20, 2018 at Jaypee University of Information Technology, Himachal Pradesh, India.
12. Attended Guest Lecture on “How to Sell Yourself” by Prof. H. Sinval, Former Deputy Director, IIT Roorkee, on November 21, 2017, at Jaypee University of Information Technology, Himachal Pradesh, India.
13. Attended two day workshop “Engineering and Entrepreneurship: A step towards fulfilling dreams” on November 16-17, 2017, Technology Incubator and Entrepreneurship Development Cell (TIEDC) at Jaypee University of Information Technology, Himachal Pradesh, India.
14. Attended four days workshop “Virtual Labs College Cloud Edition” from 09th – 12th May, 2017 organized by Jaypee University of Information Technology, Himachal Pradesh in collaboration with IIIT, Hyderabad.
15. Attended One Day Workshop on “Massive open online courses (MOOCs)”, by Prof. Mangala Sunder Krishnan from IIT Madras, on Sept 15, 2017, Department of CSE & IT, Jaypee University of Information Technology, Himachal Pradesh.
16. Attended one day workshop “A Foundation Program on Data Science using Statistica”, on April 21, 2017 organized by Jaypee University of Information Technology, Himachal Pradesh in collaboration with Grid Analytics India.
17. Attended two days workshop “LabVIEW”, on April 12- 13, 2017 organized by Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Himachal Pradesh, India.
18. Attended one day workshop “Virtual Labs : IIT Delhi”, on February 28, 2017 organized by Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with IIT Delhi.
19. Attended Guest lecture “Computer-aided Diagnosis of Retinopathy of Prematurity” on January 20, 17, by Dr. Rangaraj M. Rangayyan, Professor Emeritus of Electrical and Computer Engineering at the University of Calgary, Calgary, Alberta, Canada at Jaypee University of Information Technology, Himachal Pradesh, India.
20. Attended one day workshop “Intellectual Property Rights in Research, Development and Academics”, on November 25, 2016 organized by HP Patent Information Center (HPPIC) in collaboration with TIFAC, HFRI, Shimla.  
<http://www.juit.ac.in/ipr/HFRI.pdf>  
[http://www.juit.ac.in/lrc/hilly/Hilly\\_Ramblings\\_Nov16\\_Feb17.pdf](http://www.juit.ac.in/lrc/hilly/Hilly_Ramblings_Nov16_Feb17.pdf)
21. Attended 24<sup>th</sup> Himachal Pradesh State Level Children's Science Congress-2016, November 15-18, 2016, organised by State Council for Science, Technology & Environment, at Govt. Sen Sec. School (Boys) at Nahan, District Sirmour.  
[http://www.juit.ac.in/lrc/hilly/Hilly\\_Ramblings\\_Nov16\\_Feb17.pdf](http://www.juit.ac.in/lrc/hilly/Hilly_Ramblings_Nov16_Feb17.pdf)
22. Attended One day Workshop on “Power Quality” organized by IEEE PES-IAS Delhi Chapter and co sponsored by IEEE PELS-IES Delhi Chapter on November 25, 2015 in IIT Delhi.
23. Attended One day workshop on “Electronic System Design and Prototyping: Tools & Methodologies”, April 30, 2015, at Hotel Shangri-La's - Eros, New Delhi 19, Ashoka Road, Kanaught Place, New Delhi 110001, India
24. Attended one day workshop on “ABET Accreditation”, April 15, 2015 by Professor Claire Komives, Department of Biomedical, Chemical & Materials Engineering, San Jose State University, San Jose, California USA at Jaypee University of Information Technology, Himachal Pradesh, India.
25. Attended one day workshop “Virtual Labs : IIT Delhi”, on February 28<sup>th</sup>, 2017 organized by Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with IIT Delhi.
26. Attended One day workshop on “COMSOL Multiphysics Modeling”, May 30, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
27. Attended One day training on “FPGA Kit”, May 21, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
28. Attended One day workshop on “LabView for Real time application”, April 24, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India.
29. Attended One day workshop on “VLSI Tools and FPGA” November 2, 2011 at Jaypee University of Information Technology, Himachal Pradesh, India in collaboration with CoreEL Technology Pvt Ltd.

## ATTENDED FDP's

1. NEP 2020 Orientation and Sensitization Programme under MM-TTP of UGC on Information & Communication Technology, Malviya Mission Teacher Training Centre, Himachal Pradesh University, Shimla, Jan 23 – Feb 02, 2024.
2. NEP 2020 Orientation and Sensitization Programme under MM-TTP of UGC organized on Academic Leadership, Governance and Management, Malviya Mission Teacher Training Centre, Himachal Pradesh University, Shimla, Feb 26 – March 05, 2024.

3. Attended one week Faculty Development Program on Advanced Excel with Data Visualization from 17th May 2021 to 22nd May 2021, organized by E & ICT Academy, IIT Kanpur (A Joint Initiative of MeitY& IIT Kanpur)
4. AICTE sponsored Six Days Online Short Term Training Programme, “VLSI DESIGN AND VERIFICATION”, organized by the Department of Electronics and Communication Engineering of Annamacharya Institute of Technology & Sciences (Autonomous), Rajampet, Andhra Pradesh India from 22.03.2021 to 27.03.2021
5. Faculty Development Program on Data Science organised by E & ICT Academy, IIT Kanpur (A Joint Initiative of MeitY& IIT Kanpur) from Feb 15-27, 2021 (2 Weeks)
6. AICTE Sponsored Six Days Online Short Term Training Program (STTP) on *Artificial Intelligence and Deep learning for Computational Biology* by the Department of Computer Science and Engineering, PSNA College of Engineering and Technology, Dindigul, TN, Feb 01-06, 2021
7. Faculty Development Program on Machine Learning organised by E & ICT Academy, IIT Kanpur (A Joint Initiative of MeitY& IIT Kanpur) from January 11-23, 2021 (2 weeks).
8. AICTE Sponsored Six Days Online Short Term Training Program (STTP) on *Non-Traditional Algorithms: Efficacious for Multi-Objective Optimization* by the Department of Mechanical Engineering, PARK College of Engineering and Technology, July 20- 25, 2020.
9. 5 day FDP on Exploring the Nuances of Deep Learning for Research Applications- A deeper Experience, organized by Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu, India from July 13-17, 2020.
10. 5 days career course on Data science from June 08-12, 2020, Department of Data Science, Loyala College, Chennai
11. 10 days online Faculty Development programme on Python Programming and Machine Learning Techniques from May 18-29, 2020 by Department of Computer Science and Engineering, at KSR College of Engineering, Tiruchegode, Tamil Nadu, India
12. AICTE Training and Learning Academy, Jaipur, Online FDP on Artificial Intelligence from May 11-15, 2020 at University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra
13. AICTE Training and Learning Academy, Jaipur, Online FDP on Internet of Things (IoT) from April 27, 2020 to May 01, 2020 at University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra.
14. Hands on Training for managing the references using Endnote X9- Software organized by International journal of Advance Study and Research Work on April 23, 2020.
15. Five day Faculty development on Scilab from April 20-24, 2020 organized by IQAC and e-learning cell Aarunpadai Veedu Institute of Technology (AVIT) in collaboration with IIT Bombay and Pandit Madan Mohan Malviya Mission on Teachers and Teaching (PMMMNMTT) funded by National Mission on Education through ICT, MHRD Government of India.
16. Attended faculty development programme on “Deep Learning for Image Processing: Overview, Challenges and Future” during Feb 24-28, 2020 conducted by NITTTR, Chandigarh at Jaypee University of Information Technology, Wazirpur.
17. Attended Short term course on “Artificial Neural Network and Fuzzy Logic through ICT ” during July 23- 27, 2018 conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wazirpur.
18. Attended Short term course on “Wireless & Mobile Communication” during October 30- November 03, 2017 conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wazirpur.
19. Attended Short term course on “Cloud Computing through ICT” during October 23-27, 2017 conducted by NITTTR, Chandigarh and Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Wazirpur.
20. Attended six day faculty development program on “Signal Processing and its Applications”, January 13- 18, 2016 at Jaypee University of Information Technology, Himachal Pradesh, India.
21. Attended six day faculty development program on “Virtualization & Cloud Computing - Fundamentals & Practical Approach”, December 24- 30, 2015 at Jaypee University of Information Technology, Himachal Pradesh, India.
22. Attended six day workshop on “Faculty Development Program”, July 14-19, 2014 at Jaypee University of Information Technology, Himachal Pradesh, India
23. Attended six day workshop on “MATLAB in Engineering Education”, November 11-16, 2013 at Jaypee University of Information Technology, Himachal Pradesh, India.
24. Attended 5 day workshop on “Artificial Neural Networks, Pattern Recognition Computer Vision and Multimedia Information Retrieval” as part of Indo US Engineering Faculty Leadership Institute from July 4-8, 2011 at Jaypee University of Information Technology, Himachal Pradesh, India.

25. Attended 5 day workshop on “Wireless Sensor Networks” as part of Indo US Engineering Faculty Leadership Institute from July 5-9, 2011 at Jaypee University of Information Technology, Himachal Pradesh, India.
26. Attended 5 day workshop on “Electronic and Opto Electronic Materials” as part of Indo US Engineering Faculty Leadership Institute from May 30 to June 03, 2011 at Jaypee University of Information Technology, Himachal Pradesh, India.

### **External Examiner :**

1. Bahra University to examine B-Tech 7th sem students for VLSI Design and Technology Lab and Digital Signal Processing lab on December 04, 2018.
2. Bahra University to examine B-Tech 6th sem students for Control Lab and Antenna lab on May 29, 2018.
3. M.Tech viva scheduled for 27.07.2021 & 28.07.2021 in CDAC Mohali and IKG PTU.
4. University Institute of Information Technology (UIIT), Himachal Pradesh University, Shimla-171005 for Communication Lab on March 9, 2022
5. University Institute of Information Technology (UIIT), Himachal Pradesh University, Shimla-171005 for Circuit Design and Simulation Lab on July 19, 2022.
6. University Institute of Information Technology (UIIT), Himachal Pradesh University, Shimla-171005 for Minor Project on May 10, 2023.
7. University Institute of Information Technology (UIIT), Himachal Pradesh University, Shimla-171005 for Data and Digital Communication Lab on Aug 11-12, 2023.
8. University Institute of Information Technology (UIIT), Himachal Pradesh University, Shimla-171005 for Digital Electronics Lab on Feb 29, 2024.
9. University Institute of Information Technology (UIIT), Himachal Pradesh University, Shimla-171005 for Major Project on June 28, 2024.

### **TECHNICAL EXPERIENCE**

**Operating Systems** : Windows 98/2000/XP

**Distributed Programming:** ORCAD, Xilinx

### **PAPER PUBLISHED:**

### **BOOK CHAPTER**

1. Rana, S., Kanji, R., Jain, S. (2025). A Computational Model for Imbalanced Data Challenges of Movie Review Using Adaptive Synthetic Sampling. In: Marriwala, N.K., Shukla, V.K., Jain, S., Kumar, D., Dhingra, S. (eds) Mobile Radio Communications and 5G Networks. MRCN 2024. Lecture Notes in Networks and Systems, vol 1328. Springer, Singapore. Pp 715-725, [https://doi.org/10.1007/978-981-96-4226-7\\_54](https://doi.org/10.1007/978-981-96-4226-7_54)  
[https://link.springer.com/chapter/10.1007/978-981-96-4226-7\\_54#citeas](https://link.springer.com/chapter/10.1007/978-981-96-4226-7_54#citeas)
2. Marriwala, N.K., Jain S., Shukla V.K., William P., (2025) “Harnessing IoT and Machine Learning for Transformative Healthcare Solutions”, Hybrid Soft Computing Techniques for Machine Learning and Optimization, pp 229-248, DOI: 10.4018/979-8-3693-6864-0.ch012  
<https://www.igi-global.com/chapter/harnessing-iot-and-machine-learning-for-transformative-healthcare-solutions/376189>
3. Aggarwal, V., Jain, S., Bharti, M., Jindal, H., Rana, R., Ahuja, V. (2024). Deep Learning Assisted Diagnosis of Parkinson’s Disease. In: Marriwala, N.K., Dhingra, S., Jain, S., Kumar, D. (eds) Mobile Radio Communications and 5G Networks. MRCN 2023. Lecture Notes in Networks and Systems, vol 915. Springer, Singapore. [https://doi.org/10.1007/978-981-97-0700-3\\_1](https://doi.org/10.1007/978-981-97-0700-3_1)  
[https://link.springer.com/chapter/10.1007/978-981-97-0700-3\\_1](https://link.springer.com/chapter/10.1007/978-981-97-0700-3_1)
4. Jain, S., Bharti, M., Jindal, H. (2024). Image Denoising Framework Employing Auto Encoders for Image Reconstruction. In: Jain, S., Marriwala, N., Singh, P., Tripathi, C., Kumar, D. (eds) Emergent Converging

- Technologies and Biomedical Systems. ETBS 2023. Lecture Notes in Electrical Engineering, vol 1116. Springer, Singapore, Pages 171-181. [https://doi.org/10.1007/978-981-99-8646-0\\_15](https://doi.org/10.1007/978-981-99-8646-0_15)  
[https://link.springer.com/chapter/10.1007/978-981-99-8646-0\\_15#citeas](https://link.springer.com/chapter/10.1007/978-981-99-8646-0_15#citeas)
5. Jain, S., Pal, B., Sood, R. (2023). Multi-modality Medical Image Fusion Employing Various Contrast Enhancement Techniques. In: Jain, S., Marriwala, N., Tripathi, C.C., Kumar, D. (eds) Emergent Converging Technologies and Biomedical Systems. ETBS 2022. Lecture Notes in Electrical Engineering, vol 1040. pp 587–597, Springer, Singapore. [https://doi.org/10.1007/978-981-99-2271-0\\_45](https://doi.org/10.1007/978-981-99-2271-0_45)  
[https://link.springer.com/chapter/10.1007/978-981-99-2271-0\\_45](https://link.springer.com/chapter/10.1007/978-981-99-2271-0_45)
  6. Rominiyi, O.L., Mohammed, S., Salau, A.O., Jain, S., Eiche, J.F., Oginni, O.T. (2023). Development of a Coconut De-Husking Machine. In: Jain, S., Marriwala, N., Tripathi, C.C., Kumar, D. (eds) Emergent Converging Technologies and Biomedical Systems. ETBS 2022. Lecture Notes in Electrical Engineering, vol 1040. Springer, Singapore, pp 131–140. [https://doi.org/10.1007/978-981-99-2271-0\\_11](https://doi.org/10.1007/978-981-99-2271-0_11)  
[https://link.springer.com/chapter/10.1007/978-981-99-2271-0\\_11](https://link.springer.com/chapter/10.1007/978-981-99-2271-0_11)
  7. Thakur, G., Jain, S., Sohal, H. (2023). Approximate Arithmetic Circuit for Error-Resilient Application. In: Marriwala, N., Tripathi, C., Jain, S., Kumar, D. (eds) Mobile Radio Communications and 5G Networks. Lecture Notes in Networks and Systems, vol 588. Springer, Singapore. pp 647–656, [https://doi.org/10.1007/978-981-19-7982-8\\_54](https://doi.org/10.1007/978-981-19-7982-8_54)  
[https://link.springer.com/chapter/10.1007/978-981-19-7982-8\\_54](https://link.springer.com/chapter/10.1007/978-981-19-7982-8_54)
  8. Bhardwaj, C., Sharma, U., Jain, S., & Sood, M. (2023). Implementation and Performance Assessment of Biomedical Image Compression and Reconstruction Algorithms for Telemedicine Applications: Compressive Sensing for Biomedical Images. In I. Management Association (Ed.), Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention (pp. 1571-1598). IGI Global.  
<https://doi.org/10.4018/978-1-6684-7544-7.ch080>  
 DOI: [10.4018/978-1-6684-7544-7.ch080](https://doi.org/10.4018/978-1-6684-7544-7.ch080)  
<https://www.igi-global.com/chapter/implementation-and-performance-assessment-of-biomedical-image-compression-and-reconstruction-algorithms-for-telemedicine-applications/225281>
  9. Jain S. (2022) A Computational Model for Detection of Lung Diseases Due to Forkhead Transcription Factors. In: Marriwala N., Tripathi C.C., Jain S., Mathapathi S. (eds) Emergent Converging Technologies and Biomedical Systems. Lecture Notes in Electrical Engineering, vol 841. Springer, Singapore, pp 71-81.  
[https://doi.org/10.1007/978-981-16-8774-7\\_7](https://doi.org/10.1007/978-981-16-8774-7_7)
  10. Kashyap M., Jain S. (2022) Importance of Pulse Examination and Its Diagnostic System. In: Singh P.K., Singh Y., Kolekar M.H., Kar A.K., Gonçalves P.J.S. (eds) Recent Innovations in Computing. Lecture Notes in Electrical Engineering, vol 832. Springer, Singapore, pp 189-199.  
[https://doi.org/10.1007/978-981-16-8248-3\\_16](https://doi.org/10.1007/978-981-16-8248-3_16)
  11. Vats A., Singh R., Khurana R.K., Jain S. (2022) A Robust System for Detection of Pneumonia Using Transfer Learning. In: Marriwala N., Tripathi C., Jain S., Kumar D. (eds) Mobile Radio Communications and 5G Networks. Lecture Notes in Networks and Systems, vol 339. Springer, Singapore, pp-667-678.  
[https://doi.org/10.1007/978-981-16-7018-3\\_50](https://doi.org/10.1007/978-981-16-7018-3_50)
  12. Kirti, Sohal H., Jain S. (2022) FPGA Implementation of Low Power Pre-processor Design for Biomedical Signal Processing Application. In: Rao V.V., Kumaraswamy A., Kalra S., Saxena A. (eds) Computational and Experimental Methods in Mechanical Engineering. Smart Innovation, Systems and Technologies, vol 239. Springer, Singapore pp 489-497.  
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## Editorial Board:

1. Network Biology (ISSN 2220-8879),

2. International Journal of Computer Science and Information Technology Research Excellence (ISSN 2250-2742),
3. Journal of Harmonized Research Publication.
4. International Journal of Advance Engineering and Research Development (IJAERD) (ISSN 2348-4470 online, 2348-6406 Print)
5. Science International
6. Signal and Information Processing
7. SCIREA Journal of Computer
8. Recent Advances In Electrical And Electronic Engineering: Bentham Science
9. International Journal of Emerging Scientific Research (IJESR)

**Associate Editor :**

1. iINNOVATION
2. Current Signal Transduction Therapy
3. <http://kpublishinggroup.info/innovation/about.html>
4. International Journal of Informatics and Communication Technology (IJ-ICT)

**Society Board :** International Society of Network Biology

**Board Member :** International Journal of Multidisciplinary Research and Modern Education, R&D Modern Research Publication, Perambalur, Tamilnadu, India.

**Reviewer :**

**Journal :**

- 1) IEEE Internet of Things Journal
- 2) IEEE Journal of Biomedical and Health Informatics
- 3) IEEE Transactions on Emerging Topics in Computational Intelligence
- 4) International Journal of Computer and Information Technology (IJCIT)
- 5) International Journal of Scientific Engineering and Technology (IJSET)
- 6) Journal of Harmonized Research Publication (JOHR)
- 7) International Journal Of Environmental Science And Toxicology (IJEST)
- 8) International Journal of Advanced Trends in Computer Applications (IJATCA)
- 9) International Journal of Advanced Research in Applied Science and Technology (IJARAST)
- 10) International Journal of Engineering Research and Technology (IJERT)
- 11) International Journal of Advance Engineering and Research Development (IJAERD)
- 12) International Journal of Multidisciplinary Research and Modern Education
- 13) Asian Journal of Applied Science and Technology (AJAST)
- 14) International Journal on Emerging Trends in Electronics & Communication Engineering
- 15) Science International
- 16) Bentham Science Publishers
- 17) International Association of Engineering & Technology Researchers (IAETR)
- 18) Signal and Information Processing.
- 19) Advances in Science, Technology and Engineering Systems Journal
- 20) Recent Advances in Electrical & Electronic Engineering.
- 21) Journal of King Saud University - Computer and Information Sciences
- 22) Journal of Engineering Science and Technology
- 23) International Journal of Smart Computing & Information Technology (IJSCIT)
- 24) International Journal of Information Technology
- 25) International Journal of Emerging Trends in Electronics and Communication Engineering
- 26) Royal Society Open Science



- 27) International Journal of Research and Innovation in Engineering Technology (IJRIET)
- 28) Energy Sources, Part A: Recovery, Utilization, and Environmental Effects
- 29) IAES International Journal of Artificial Intelligence (IJ-AI)
- 30) TELKOMNIKA Telecommunication Computing Electronics and Control. TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (<http://journal.uad.ac.id/index.php/TELKOMNIKA>)
- 31) International Journal of Applied Power Engineering (IJAPE)
- 32) International Journal of Reconfigurable and Embedded Systems (IJRES)
- 33) Journal of Education and Learning (EduLearn)
- 34) Archives of Computational Methods in Engineering (ARCO)
- 35) Inter Journal of Computing and Digital Systems (IJCDs)

## Book Chapters

1. Reviewer of Book chapter entitled “An Enhanced Face and Iris Recognition based New Generation Security System” for “Advancements in Security and Privacy Initiatives for Multimedia Images” IGI Global ([www.igi-global.com](http://www.igi-global.com)), February 09, 2020.

## Conferences (TPC) :

1. The International Conference on Signal Processing, computing and control (ISPPC 2012), March 15-17, 2012, JUIT, Solan, India.
2. The International Conference on Computational Intelligence and Communication Networks (CICN 2013), Sept 27- 29, 2013, Mathura, India.
3. International Conference on Machine Intelligence Research and Advancement (ICMIRA 2013), Dec 21- 23, 2013, Katra, India.
4. Machine Intelligence Research and Advancement ( MIRA-2013), Dec 27- 29 2013, MIR Labs, India.
5. The 2013 IEEE International Conference on Signal Processing, Computing and Control (2013 IEEE ISPPC), Sept 26-28, 2013, JUIT, Solan, India
6. The International Conference on Computational Intelligence and Communication Networks (CICN 2014), Nov 8-10, 2014, Bhopal, India.
7. 4th International Conference on Electronics, Communications and Networks (CECNet 2014), Beijing, China, Dec 12-15, 2014.
8. International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP-2014), Poornima Institute of Engineering & Technology , Jaipur, Jan 16-17 ,2015
9. 2015 International Conference on Computer Vision & Image Analysis ICCVIA' 2015, January 18-20, 2015 Sousse, Tunisia.
10. International Conference on Industrial Instrumentation and Control (ICIC 2015), 28th to 30th May 2015, College of Engineering, Pune.
11. 2015 International Conferences on Advances in Computers, Communication and Electronics Engineering (COMMUNE 2015), March 16 to 18, 2015, University of Kashmir, Srinagar, India.
12. 2015 International Conference on Computer Science and Environmental Engineering (CSEE2015), May 17-18, Beijing, China.
13. The 2015 IEEE International Conference on Signal Processing, Computing and Control (2015 IEEE ISPPC), Sept 24-26, 2015, JUIT, Solan, India
14. International Conference on Control Theory and Its Application (CNTIA'2015), Dec 15-17 ,2015, Melaka, Malaysia.
15. First International e-conference on Engineering Science & Management (ICESM 2015), Oct 18, 2015.
16. 5th International Conference on Electronics, Communications and Networks (CECNet 2015), Shanghai, China, Dec 12-15, 2015.
17. International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT 2016), New Delhi, India, March 11-13, 2016.
18. 10th INDIACom: 3rd 2016 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 16-18, 2016.
19. The 3rd International Conference on Electronic Design (ICED 2016), Phuket, Thailand, August 1-2, 2016.
20. International Conference on Image Processing, Data Mining and Information Technology 2016 (IPDMIT-16), Dubai, UAE, September 12-14, 2016.

21. International Conference on Signal Processing and Communication (ICSC), 2016, Jaypee Institute of Information Technology, Noida, India, December 26-28, 2016
22. 1st International Joint Conference on Computer, Electrical and Electronics Engineering 2017, Gazipur, Bangladesh, Feb 7-9, 2017.
23. 2017 International Conference on Control Theory and Its Application (CNTIA'2017), February 14-16, 2017.
24. 11th INDIACom: 4th 2017 International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, India, March 1-3, 2017.
25. IEEE Virtual Reality 2017 will be held in Los Angeles, California on March 18-22, 2017.
26. International Conference on Optical and Wireless Technologies 2017 (OWT'2017), Malaviya National Institute of Technology Jaipur(MNIT Jaipur), March 18-19, 2017
27. International Conference on Communication, Management and Information Technology ICCMIT'17, University of Warsaw, Poland, April 3-5, 2017.
28. International Conference on Computer, Communications and Electronics 2017 (Comptelix 2017) Manipal University, Jaipur , July 1-2, 2017.
29. EAI International Conference on Ubiquitous Communications and Network Computing (UBICNET), Bangalore, India, August 3-5, 2017
30. Third International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'17), Manipal Institute of Technology, Manipal University, Manipal, India during September 13-16, 2017.
31. Third International Symposium on Intelligent Systems Technologies and applications (ISTA'17), Manipal University, Karnataka, India during September 13-16, 2017.
32. 4<sup>th</sup> IEEE International Conference on signal processing and control (ISPCC 2017), Jaypee University of Information technology, Wagnaghat, Solan, H.P, India, September 21-23, 2017
33. The 2017 International Conference on Emerging Electronic Solutions for IoT (ICEESI 2017), Penang, Malaysia during October 9- 10, 2017.
34. The 6th International Conference on Biomedical Engineering and Biotechnology (ICBEB 2017) Guangzhou, China, October 17th - 20th, 2017.
35. 1st International Conference on Innovative Algorithms – ICIA 2017 during October 2017.
36. International Conference on Emerging Electronic Solutions for IoT 2017-ICEESI 2017, Malaysia, October 9-10, 2017.
37. 24th 2017 IEEE International Conference on Electronics, Circuits and Systems (ICECS 2017) December 5-8, 2017
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39. IJCCEE 2017 (1st International Joint Conference on Computer, Electrical and Electronics Engineering 2017)
40. International Conference on Optical and Wireless Technologies 2018 (OWT 2018), Jaipur, india, February 10-11, 2018
41. International Conference on Signal Processing and Communication (ICSC-2018), The Department of Electronics and Communication Engineering, Jaypee Institute of Information Technology (JIIT), Noida, March 21 - 23 2018.
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46. Fourth International Symposium on Intelligent Systems Technologies and Applications (ISTA'18), Bangalore, Sep19-22, 2018.
47. 31st Symposium on Integrated Circuits and System Design in 2018, SBCCI 2018 , Bento Gonçalves, Rio Grande do Sul, Brazil, on August 27-31, 2018.
48. IEEE International Conference on Electronics, Circuits and Systems (ICECS) 2018, Bordeaux France, Dec 9-12, 2018.
49. Softconf.com, and the START V2 ConferenceManager
50. 2018 International Workshop on Artificial Intelligence and Deep Learning methods for Human Centric Systems to be held in Moscow from November 5-9, 2018.
51. 10th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT 2018), November 5 - 9, 2018, Moscow, Russia.
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53. Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC) , Jaypee University of Information technology, Waknaghat, Solan, H.P, India. Dec 20-22, 2018.
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57. International Conference on Contemporary Engineering Technology and Management (ICCETM-19), Radisson Jass, Shimla on May 30- 31, 2019.
58. ICRTCIS 2019: International Conference on Recent Trends in Communication & Intelligent Systems, Arya 1st Old Campus, Industrial Area Kukas Delhi Road Jaipur Rajasthan, Jaipur, India, June 8-9, 2019
59. International Conference on Emerging Trends in Information Technology- 2019 (ICETIT 2019), Institute of Information Technology and Management, Janakpuri, Delhi, June 21-22, 2019.
60. SBCCI, 2019, Aug 26-30, 2019, Sau Paulo, Brazil.
61. 2nd International Conference on Communication & Computational Technologies (ICCCT-2019), 30-31 August, 2019 at RIET, Jaipur, India
62. 2019 4th IEEE International Circuits and Systems Symposium (ICSyS), 18th – 20th September 2019, Kuala Lumpur, Malaysia.
63. International Conference (ICRIHE-2019) ‘Role of ICT in Higher Education: Trends, Problems and Prospects’ September 27-28, 2019, IITM auditorium, New Delhi.
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66. CICT 2019 : The 3rd IEEE Conference on Information and Communication Technology, IIITM Gwalior and IIITDM Jabalpur, Dec 6- Dec 8, 2019.
67. Fifth International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'19). SIRS'19 , Trivandrum, Kerala, India, Dec. 18-21, 2019.
68. Fifth International Symposium on Intelligent Systems Technologies and Applications (ISTA'19). ISTA'19 will be held in Trivandrum, Kerala, India during Dec. 18-21, 2019.
69. International Conference on Smart Communication and Imaging Systems organized by Department of Electronics and Communication Engineering, G.L. Bajaj Institute of Technology & Management, Greater Noida, March 20th - 21st, 2020.
70. 1st International Symposium on Engineering and Technology 2019, Kangar, Perlis, 23 December 2019.
71. 9th International Conference on Communication Systems and Network Technologies 2020, November 07-11, 2020.
72. 2019 Second International Conference on Mechanical Engineering and Materials (ICMEM2019), Guangzhou, China, December 20-21, 2019.
73. International Conference on "Role of ICT in Higher Education: Trends, Problems and Prospects - ICRIHE 2020" on 14-15 February 2020, Janakpuri, New Delhi.
74. 7<sup>th</sup> International Conference on Signal Processing and Integrated Networks, SPIN 2020 , Department of Electronics and Communication Engineering ASET, Amity University, Sec-125, Noida, Delhi-NCR, India, 27 - 28 February 2020
75. International Conference on Recent Trends in Smart Energy Management (COER-ICRTSEM-2020) , College of Engineering Roorkee (COER), Aug. 21-22, 2020.
76. IEEE International Conference on Electronics, Circuits and Systems (ICECS-2020)
77. 33rd Symposium on Integrated Circuit and Systems Design SBCCI 2020, Campinas, Brazil, on August 24-28, 2020.
78. 12<sup>th</sup> International Conference on Computational Intelligence and Communication Networks (CICN 2020 )
79. Sixth International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'20)
80. 6<sup>th</sup> International Symposium on Intelligent Systems Technologies and Applications (ISTA'20), October 14-17, 2020, Chennai, India
81. 5<sup>th</sup> International Conference on Electronic Design (ICED 2020)
82. 2020 International Conference on Radar, Antenna, Microwave, Electronics, and Telecommunications (ICRAMET) (2020 ICRAMET), Research Center for Electronics and Telecommunications, Indonesian Institute of Sciences Jl. Sangkuriang 154 D, Bandung 40135, West Java, Indonesia virtually on November 18th - 20th, 2020.

83. 2020 Sixth International Conference on Parallel, Distributed and Grid Computing(PDGC), 06-08 November, 2020, Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology
84. Innovations in Information and Communication Technologies (IICT-2020)), ITS, Mohan Nagar, Ghaziabad, UP, India, November 7-8, 2020.
85. Member Program Committee for Congress on Intelligent Systems 2020
86. CSNT 2021 (10th International Conference on Communication Systems and Network Technologies 2021).
87. International Conference On Recent Trends in Communication & Intelligent Systems (ICRTCIS 2020)
88. International Conference on Communication and Intelligent Systems (ICCIS 2020)
89. 1st International Conference on Engineering and Technology (ICoEngTech) 2021
90. International Conference on Data Science and Applications (ICDSA 2021) is going to be organized in Virtual Format (due to the ongoing COVID19 pandemic) during April 10-11, 2021
91. International Conference on "Issues and Challenges in Intelligent Computing Techniques" (ICICT-2021) (In blended mode) on November 26 -27, 2021, KIET Group of Institutions, Delhi-NCR, Meerut Road (NH-58), Ghaziabad, Uttar Pradesh, India
92. The 13th International Conference on Computational Intelligence and Communication Networks (CICN 2021), Sept 22-23, 2021.
93. 34th Symposium on Integrated Circuit and Systems Design in 2021, Compinas, Brazil, on August, 2021
94. ISETech 2021 (The 2nd International Symposium on Engineering and Technology 2021).
95. 2021 7th International Conference on Signal Processing and Communication (ICSC-2021), IIIT, Noida from 25th to 27th November, 2021.
96. Second International Conference on Advances and Applications of Artificial Intelligence and Machine Learning(ICAAAIML'2021), School of Engineering & Technology, Sharda University, 29th - 30th October 2021.
97. Program Committee Member of AICTE Sponsored 3rd International Conference on Recent Trends in Communication & Intelligent Systems (ICRTCIS 2021), 22 & 23 October 2021
98. InCAPE 2021 (THE 3rd INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS 2021).
99. 4th International Conference on Communication and Computational Technologies (ICCCT 2022)
100. 2022 IEEE India Council International Subsections Conference (INDISCON), 7/15/2022
101. 2nd edition of DELCON 2023 (An IEEE Delhi section owned conference), 2/24/2023
102. International Conference on Intelligent Engineering and Management, 5/9/2023
103. 2023 IEEE International Conference on Computer, Electronics & Electrical Engineering and their applications (IC2E3), 5/9/2023
104. 2023 IEEE 4th Annual Flagship India Council International Subsections Conference, 5/8/2023
105. The 3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering, 7/19/2023
106. 5th International Conference on Recent Trends in Communication & Intelligent Systems, 4/25/2024
107. 4. Interdisciplinary Conference on Electrics and Computer, 6/11/2024
108. IEEE MYSORE SUBSECTION FLAGSHIP CONFERENCE MYSURUCON 2024, 8/30/2024
109. IEEE R10 TENSYP2024, 9/27/2024
110. 5th IEEE Women in Technology Conference 2024, 11/12/2024
111. 3rd International Conference on Machine Learning and Data Engineering, 11/28/2024
112. 2nd International Conference on recent trends in Microelectronics, Automation, Computing and Communications Systems, 12/19/2024
113. 7th ICOIACT 2024

## **WORKSHOP AND TRAINING AS A TECHNICAL CO-ORDINATOR OF JYC (2015-16)**

S.No.	Name of Workshop	Students Involved	Date	Number of Students Registered (includes Paid, Unpaid and Discounted)
1	Hand on 'C'	1st year	September 24 - 26, 2015	200+
2	Photoshop	Club Specific	October 4, 2015	30+
3	CPU Assembling	Club Specific	October 7, 2015	35+
4	Web Development	Club Specific	October 13-14, 2015	35+
5	Premier Pro	All years	November 4, 2015	40+
6	Sound Editing	All years	November 6, 2015	50+
7	Robotics	Club Specific	November 16-17, 2015	30+
8	PhP	All years	January 22, 2016	40+
9	Data Structure	1st year	January 27-28, 2016	130+
10	Murios X	Diff Universities	January 29- 31, 2016	200+

#### WORKSHOP AND TRAINING AS A TECHNICAL CO-ORDINATOR OF JYC (2016-17)

S.No	Name of Workshop	Students Involved	Date	Number of Students Registered (includes Paid, Unpaid and Discounted)
1	Hand on 'C'	1st year	September 29 - 30, 2016	200+
2	Photoshop	Club Specific	October 3-5, 2016	30+
3	Web Development	Club Specific	October 12-14, 2016	35+
4	Premier Pro	All years	November 4, 2016	35+
5	PhP	All years	January 30-31, 2017	40+
6	Data Structure	1st year	February 17-18, 2017	50+
7	Murios XI	Diff Universities	February 10-12, 2017	200+

#### COURSES TAUGHT

Month Period/Year	Course No. and Title/Status	Students Enrolled
January-May/2008	07B41EC706 - Devices and Circuit Simulation Lab	
July-December /2008	07B51EC241- Communication Systems 10B17EC472- Communication System Lab	131 131
January-May/2009	10M13EC439 - Bioelectronics	25
July-December/2009	07B51EC109 - Digital Communications	145
January-May/2010	07B41EC106/ 10B11EC411 Semiconductors 10M13EC439 Bioelectronics	131 01
December- January-2010-11 (Condensed Sem)	11B1WEC836- Circuit Synthesis	38

January-May /2011	11B1WEC671- Power electronics Lab	120
July-December/2011	10M11EC114 VLSI circuits and System Design 10B17EC171- Electrical Circuit Lab	60 135
January-May/2012	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab	114 64
July- December/2012	10B11EC401 – Digital Electronics 10B17EC407– Digital Electronics Lab 10B11EC612- VLSI Technology and Application	67 98 02 (special case)
January-May/2013	10B11EC401 – Digital Electronics 10B17EC407– Digital Electronics Lab 13B1WEC833- Bio electronics Sensor	114 32 47
July- December/2013	10B11EC401 – Digital Electronics 10B17EC407– Digital Electronics Lab 13B1WEC731- CMOS Analog Circuit Design 13P1WEC131- Advanced Bio electronics Sensor	24 24 52 01
January-May/2014	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab 13B1WEC833- Bio electronics Sensor	120 55 43
July/2014 (Summer Sem)	10B11EC211- Basic Electronics 13B1WEC833- Bio electronics Sensor	12 03
July-December/2014	10B11EC401 – Digital Electronics 10B17EC307– Signals and Systems Lab 10B17EC574- Communication System Lab 13B1WEC731- CMOS Analog Circuit Design	152 32 157 26
Jan-May/2015	10B11EC612- VLSI Technology and Application 10B17EC271- Basic Electronics Lab	120 95
June /2015 (Summer Sem)	10B11EC111- Electrical Circuit Analysis 10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab 10B17EC471 -Devices and Circuit Simulation Lab	42 10 02 02
July-December/2015	10B11EC111- Electrical Circuit Analysis 10B17EC171- Electrical Circuit Lab	115 115
Jan-May/2016	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab	99 99
June /2016 (Summer Sem)	10B11EC111- Electrical Circuit Analysis 10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab 10B17EC471 -Devices and Circuit Simulation Lab 10B11EC511-Digital Communications	12 02 02 01 02
July-December/2016	10B11EC401 – Digital Electronics 10B17EC407– Digital Electronics Lab 10M11EC114 VLSI circuits and System Design	85 85 07
Jan-May / 2017	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab	90 27
June /2017 (Summer Sem)	13B1WEC731- CMOS Analog Circuit Design 11B1WEC671- Power electronics Lab	03 02
June-December/2017	17M1WEC331- VLSI in Biomedical Applications 10B17EC372- Analog Electronics Lab	03 124
Jan-May 2018	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab	104 32
June /2018 (Summer Sem)	10B11EC111- Electrical Circuit Analysis 10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab 10B17EC471 -Devices and Circuit Simulation Lab	12 02 03 01



	13B1WEC731- CMOS Analog Circuit Design	03
July-December 2018	10B11EC401 – Digital Electronics 10B11EC407- Digital Electronics Lab	205 207
January- May 2019	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab	100 45
Summer 2019	18B17EC271- Electrical Science Lab 10B11EC612- VLSI Technology and Application 13B1WEC731- CMOS Analog Circuit Design	02 01 04
July-December 2019	18B11EC312 – Digital Electronics and Logic Design 19P1WEC111- Reconfigurable Computing	21 01
January- June , 2020	10B11EC612- VLSI Technology and Application 10B17EC672- VLSI lab	67 66
July-December 2020	13B1WEC731 –CMOS Analog Circuit Design 18B1WCI636– Digital Image Processing	17 46
January- May , 2021	18B11EC612- VLSI Technology	21
June- July, 2021	18B1WCI636– Digital Image Processing 18B1WCI676– Digital Image Processing Lab	18
August- December, 2021	18B11EC312 – Digital Electronics and Logic Design 18B17EC372 – Digital Electronics and Logic Design Lab	57 55
January-June 2022	18B11EC411-Analog Integrated Circuits 18B17EC471- Analog Integrated Circuits Lab 19B1WEC831-Digital CMOS ICs	18 18 4
August- December, 2022	18B1WEC847 – Medical Image Processing 18B17EC372 – Digital Electronics and Logic Design Lab 18B11WEC744- FPGA based Instrumentation System Design	5 27 18
January-June 2023	18B11EC411: Analog Integrated Circuits 18B17EC471: Analog Integrated Circuits Lab 18B17EC672: VLSI Technology Lab	07 07 17
August- December, 2023	18B11EC313: Electronic Devices and Circuits 18B17EC373 : Electronic Devices and Circuits Lab 21M1WEC135 : Signal Processing for IoT	03 03 03
Jan- June 2024	18B11EC211- Electrical Sciences 18B11EC612-VLSI Technology	387 06
July- Dec 2024	18B11EC313: Electronic Devices and Circuits 18B17EC373 : Electronic Devices and Circuits Lab 21M1WEC149 : Computational Intelligence and Applications	04 04 06
Jan – May 2025	24B17EC271 : Basic Electrical Sciences Lab 18B11EC411: Analog Integrated Circuits 18B17EC471: Analog Integrated Circuits Lab 18B11EC612-VLSI Technology 18B17EC672: VLSI Technology Lab	38 02 02 03 03

## ACHIEVEMENTS

- Biography included in “**Who's Who in Science and Engineering 2016-2017**” (12th Edition).
- Biography included in “**Who's Who in Medicine and Healthcare 2011-2012**” (8th Edition) in October 2011 issue.
- Co-ordinator of NAAC visits of Electronics and Communication Department in March 2011.
- Qualified in final round of **Envision**, the Product Design Competition held during Entrepreneurship Summit 2009, organized at the Indian Institute of Technology, Kharagpur
- Head Pinnacle. Beyond The Heights, Electronics & Communication Society ACE & AR, Mithapur and organized many events like Paper Presentation, Group Discussion.

- Overall In charge Of “**Technopreneur Promotion ProgrameTePP**” Electronics Research Development & facilities centre, HARTRON Symposium held at ACE & AR Mithapur.
- **Topped in ELECTRONICS** in Haryana Engineering College, Jagadhari
- **(GOLD MEDALIST)** Got scholarship in every semester.
- Got 100% result in **Elements of Electronics Engg (EL-101E)** in May 2006 and 95% result in December 2006.
- Got 100% result in **Digital Electronics (ECE-204E)** in May 2007
- Got highest marks in Mathematics in AISSCE (Senior secondary)
- Worked as EVENT CO-ODINATOR (as a lecturer) of Brain Storm Committee in Azzaro 2005 (Technical fest).
- Active member (organizer) of Quiz & Simulation in Azzaro National Level Symposium 2004.
- Awarded letter of commendation in Azzaro 2004 (Technical fest), as a member of organizing team.
- Member of Organizing Committee of AZZARO-2002, 2003, 2004 (National Level Technical Fest).