


## Faculty Profile

Name	Shilpa Jindal			
Designation	Assistant Professor			
Pay Scale	7 <sup>th</sup> Pay Scale			
Department	ECE			
Qualification	Ph.D.			
Date of joining 2 <sup>nd</sup> May 2028	Institute CCET (DW)	Present Post A.P.		
Experience ( <i>in years</i> )	Total 22	Teaching 22	Industry -----	
Research Interests	Communication Engineering, Optical communication and IOT			
Contact Details:	Email shilpajindal@ccet.ac.in	Mobile/Phone 9463328881		
Research Publications	International Journals	National Journals	International Conferences	National Conferences
	04	---	06	01
Books/Chapters Published	01 (Chapter)			
Research Guidance	Ph. D.	00	Masters	00
Research Projects	Completed	01	Inprogress	01
Consultancy Projects	Completed	00	Inprogress	00
Seminar/Conference/STTPs	Attended		Organized	02
Professional Affiliations	<ol style="list-style-type: none"> <li>1. Life member of Institute of Engineers (IEI) , Kolkata since M 152381-8 since 2016</li> <li>2. Life member of the Indian Society of Technical Education (ISTE) LM 123811 since 6<sup>th</sup> July 2021.</li> <li>3. Member, A C Joshi , PU- Library</li> </ol>			
Awards/ Fellowships etc.	Appriciation for ICT Trainer			
List of Publications	<ol style="list-style-type: none"> <li>1. Sarabpreet Singh, Rohit Batra , Ridhi Jain , Dr.Shilpa Jindal , “Cost Effective Wireless Humanoid Hand” in thirty Fifth National Convention of Electronics and Telecommunication Engineers on “Intelligent Electronics Systems for State-of-the-Art Healthcare System” Organized by The Institution of Engineers (India),Haryana State Centre in association with Technology Education and Research Integrated Institute ,Kurukshetra on October 19-20, 2019, Proceedings of the Conference published in the special issue of International</li> </ol>			

Journal of Management, Technology And Engineering, a UGC approved peer reviewed & refereed journal; ISSN No. 2249-7455

2. Shilpa Jindal, Dinesh Sharma, Purnima K Sharma “ Analysis of Erbium Doped Fiber Amplifier on 16 Channel WDM System at 40 Gbps using NRZ Modulation Scheme” IJRAR May 2019, Volume 6, Issue 2 E-ISSN 2348-1269, P- ISSN 2349-5138). UGC and ISSN Approved - International Peer Reviewed Journal, Refereed Journal, Indexed Journal,
3. Shilpa Jindal, Dinesh Sharma,Purnima K Sharma, “ Effect of Chromatic Dispersion on Multimode Fiber with varying Profile for Optical Access Networks” International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-05, Issue-02, May 2019.
4. Shilpa Jindal et.al., “A Kagome Crest Fractal Optimized Quad-Band Antenna for Wireless Applications” Traitement du Signal, Vol. 40, No. 2, April, 2023, pp. 719-726. ISSN: 0765-0019 (print); 1958-5608 (online), <https://doi.org/10.18280/ts.400231>. [SCIE]

#### **International Conference:**

- Gauri Khanna , Akash Tyagi, Gunpreet Singh , Shilpa Jindal “Bilingual Voice Controlled Home Automation System using IoT for Indian States” in International Conference on Electronics and Communication, Renewable Energy and IoTs-vision 2040 on 7<sup>th</sup> -8<sup>th</sup> September 2019 at IEI Punjab and Chandigarh state center.
- Manmeet Singh Chawla, Dhananjay Prakash and Dr. Shilpa Jindal “Design of System for Measuring Air Properties for Help During COVID-19 Scenario” in 2nd International Conference on Aspects of Materials Science and Engineering ICAMSE2021 during 05<sup>th</sup> – 06<sup>th</sup> March, 2021 Organized by Panjab University, Chandigarh, India **05<sup>th</sup> – 06<sup>th</sup> March, 2021**
- Purnima Bansal, Aditi Ananya,Shilpa Jindal “IoT enabled dustbin for trash segregation and collection ” in International Conference on Emerging Technologies : AI, IoT,and CPS for Science & Technology Applications” organized by Department of Electronics and Communication Engineering & Electrical Engineering Department , NITTTR Chandigarh during **6<sup>th</sup>-7<sup>th</sup> September 2021**.
- Atul kumar, Amandeep Singh, Saurabh Panday, Shilpa Jindal “Trigger Based Anti-Violence Robot The Vision” in "International Conference on Emerging Technologies: AI, IoT, and CPS for Science & Technology Applications” jointly organized by Electronics and Communication Engineering &

	<p>Electrical Engineering Department during <b>September 6- 7, 2021.</b></p> <ul style="list-style-type: none"> <li>• Rahul Narang (CO19548), Vanshita Bansal (CO19562), Vasu Goel (CO19563) and Dr. Shilpa Jindal published a research paper titled "Development of Green, Low-Cost Smart Crop Health Monitoring System Using IOT," in the "International Conference on Technological Advancements: Stepping Towards Sustainable Development" ICTA 23, held on 08-09 Feb 2023 at SVIET, Banur</li> <li>• Presented Research paper titled: “Amalgamation of Machine Learning Techniques with Optical Systems: A Futuristic Approach” in International Conference on Artificial Intelligence Of Things (ICAIoT 2023), 30<sup>th</sup> -31<sup>st</sup> March 2023 AT NITTTR Chandigarh. CCIS, Springer (Scopus Indexed).</li> </ul> <p><b>National Conference:</b></p> <ul style="list-style-type: none"> <li>• Arshita , Shilpa Jindal “Perspective of NEP 2020 for integration of different engineering disciplines – A Step towards Atmanirbhar Bharat” in National Conference on Unlocking Atmanirbhar Bharat Through NEP-2020 27th November, 2020 organized by National Institute of Technical Teachers Training and Research Sector 26, Chandigarh – 160019.</li> </ul> <p><b>Book chapter</b></p> <p>Book Chapter:Dr. Shilpa Jindal, Contributed a chapter on "Green Optical Networks based on Machine Learning Techniques" in a Book titled "Green Communication Technologies for Future Networks" published by CRC Press, ebook ISBN 9781003264477, in Oct 2022.</p>
<p>Research Project Detail</p>	<ul style="list-style-type: none"> <li>• Dinesh Sharma and Shilpa Jindal “Design and Development of IoT based water quality Monitoring System for Chandigarh” is completed with value of Rs. 50000 (Fifty Thousand only), DST &amp; RE, Chandigarh (UT) by March 2023.</li> <li>• Dinesh Sharma, Shilpa Jindal and D.S. Saini, “Assessment of Electromagnetic Radiations and its Effects in Chandigarh” is sanctioned with value of Rs. 100000.00 (One Lakh), DST Chandigarh-160019, (Approval Letter no. S&amp;T&amp;RE/RP/147/sanc/09/2024/809-904) dated 05.09.2024).</li> </ul>

Patent Detail	<ul style="list-style-type: none"> <li>• Patent Applied for “A Novel Meander Line Multiband Antenna with Parasitic Elements”. F.No. 201911003653 dated 30<sup>th</sup> Jan. 2019 (Published on 22<sup>nd</sup> Feb. 2019 journal no. 08/2019).</li> <li>• Patent Applied for “Slotted Wheel Microstrip Patch Antenna Based RF Energy Harvesting System”. F.No. 201941017384 dated 01<sup>st</sup> May 2019 (Published on 10<sup>th</sup> May 2019 journal no. 19/2019).</li> <li>• Patent Applied for “A Novel Dual Band Antenna for Wireless Body Area Network”. F.No. 201911037562 dated 18<sup>th</sup> Sept. 2019 (Published on 27<sup>th</sup> Sept. 2019 journal no. 39/2019).</li> <li>• <b>Australian Patent granted on Titled “A DEFECTED GROUND ANTENNA FOR WIRELESS BODY AREA NETWORK” Patent No.- 2021100926 dated 18<sup>th</sup> Feb.2021.</b></li> </ul>
Consultancy	N.A.
Ph.D Scholars Name	N.A.
Institute Responsibility	<ol style="list-style-type: none"> <li>1. Assistant Superintendent in PU even Semester Examinations – May 2023 (Endst. No. CCET/DG/Acads/rf-03/2023/645 Dated 03/05/23 )</li> <li>2. Deputy Superintendent in PU Odd Semester Examination (Regular and Reappear exam) – December 2023 (Endst. No. CCET/DG/Acads/RF-03/2023/4843 Dated 29/11/23) .</li> <li>3. Departmental E-Newsletter Editor w.e.f. 20<sup>th</sup> April 2022 till date Ends. No. CCET/DG/2022/259-261 Dated 20/04/22.</li> <li>4. Jury member for ECE dept in IPD EXPO 2023 held on 22<sup>nd</sup> Nov 2023. Endst. No. CCET/DG/SW/109/4707-11 Dated 20/11/23.</li> <li>5. Committee member of Decoration Arrangement for Annual Convocation on 20<sup>th</sup> October 2023. (Endst No. CCET/DG/Acads/RF-116/2023/3188-97 Dated: 15/09/23).</li> <li>6. Additional Reappear (May-June 2023, Dec-Jan 2024 ), Summer Training, and Project Work as assigned along with Regular teaching</li> <li>7. ICT trainer from 29<sup>th</sup> March to 6<sup>th</sup> April 2023 (Endst No. CCET/DG/SW/ICT/6910-11 Dated: 28/03/23) and 17<sup>th</sup> October to 25<sup>th</sup> October 2023 (Endst No. CCET/DG/SW/ICT/3953-54 Dated: 13/10/23)</li> <li>8. Local Inspecting Officer for exams conducted by UPSC, New Delhi from time to time.</li> <li>9. Member RDC, ECE Dept, PU Chd Endst. No. CCET/DG/Acads/RF-83/2023/6805-09 dated 27<sup>th</sup> March 2023 from 01.01.23 to 31.12.23.</li> <li>10. Joint nodal officer, ECE Dept, Viksat Bharat@2047 (Endst No. CCET/DG/E-1/RF-01/5131-34 Dated: 11/12/23)</li> </ol>

	<ol style="list-style-type: none"> <li>11. APRATIM-2023 -Committee member of Sponsorship, Marketing, Invitations, Photography and Press Release Committee (Endst. No. CCET/DG/SW/R-102/2023/3075-79 Dated 08/09/2023)</li> <li>12. Annual Convocation -2023 Committee member of decoration arrangement Endst. No. CCET/DG/Acds/RF-116/2023/3188-97 Dated 15/09/2023)</li> <li>13. Annual Athletic Meet- 2024 judges (Jumps) (Sub Incharge) Endst. No. CCET/DG/SW/6945-51 Dated 01/03/24</li> <li>14. Other duties as assigned to me from time to time.</li> </ol>
Department Responsibility	<ol style="list-style-type: none"> <li>1. Regular Teaching and Research</li> <li>2. Dept. Optical Communication Engineering Lab Incharge.</li> <li>3. Dept. Microprocessor Lab Incharge.</li> <li>4. Departmental Regular Result In-charge.</li> <li>5. Departmental Sessionals Coordinator.</li> <li>6. Departmental Stock Register In-charge.</li> <li>7. Department representative E-Akademic software</li> <li>8. Departmental GEM coordinator.</li> <li>9. Class incharge 2<sup>nd</sup> year ECE 2022-26 Batch wef August 2023.</li> <li>10. Member of Research Advisory Committee (Phd) of Sh. Hardeep Saini, ECE Dept.</li> <li>11. Member of Research Advisory Committee (Phd) of Sh.Rajendra Jampa, ECE Dept</li> <li>12. Member NBA criterion 2 Committee</li> <li>13. Member NBA criterion 4 Committee</li> <li>14. Convener NBA criterion 10 Committee</li> <li>15. Member, Departmental student attendance supervision committee w.e.f 19<sup>th</sup> October 2022.</li> </ol>
Any Other Information	

Signature of faculty

## **Awards and Recognition**

1. Selected for 10th Venus **International Women Awards – VIWA 2025** in Optical Communication
2. **Appreciation Certificate** in recognition of outstanding contribution during session **2020-2021** in conducting ICT Training for the employees of Chandigarh Administration (UT Government).

## **RESEARCH PROJECTS**

- Completed project Dinesh Sharma and Shilpa Jindal “Design and Development of IoT based water quality Monitoring System for Chandigarh” is completed with value of Rs. 50000 (Fifty Thousand only), DST & RE, Chandigarh (UT) by March 2023.
- Dinesh Sharma, Shilpa Jindal and D.S. Saini, “Assessment of Electromagnetic Radiations and its Effects in Chandigarh” is sanctioned with value of Rs. 100000.00 (One Lakh), DST Chandigarh-160019, (Approval Letter no. S&T&RE/RP/147/sanc/09/2024/809-904) dated 05.09.2024). Ongoing

## **Patents**

1. Australian Patent granted on 14 April 2021 Titled “A Defected Ground Antenna for Wireless body area network” Patent No.- 2021100926 dated 14th Feb.2021.
2. Patent “A Novel Meander Line Multiband Antenna with Parasitic Elements”. F.No. 201911003653 dated 30th Jan. 2019 (Published on 22nd Feb. 2019 journal no. 08/2019). Granted on 21/09/2023.
3. Patent “Slotted Wheel Microstrip Patch Antenna Based RF Energy Harvesting System” F.No. 201941017384 dated 01st May 2019 (Published on 10th May 2019 journal no. 19/2019). Granted on 15/03/2024.
4. Patent “A Novel Dual Band Antenna For Wireless Body Area Network” Published on 10th May 2019 journal no. 19/2019. Granted on 19/08/2024

## **International Journal**

1. Sarabpreet Singh, Rohit Batra , Ridhi Jain , Dr.Shilpa Jindal , “Cost Effective Wireless Humanoid Hand” in thirty Fifth National Convention of Electronics and Telecommunication Engineers on “Intelligent Electronics Systems for State-of- the-Art Healthcare System” Organized by The Institution of Engineers (India),Haryana State Centre in association with Technology Education and Research Integrated Institute ,Kurukshetra on October 19-20, 2019, Proceedings of the Conference published in the

special issue of International Journal of Management, Technology And Engineering, a UGC approved peer reviewed & refereed journal; ISSN No. 2249-7455

2. Shilpa Jindal, Dinesh Sharma, Purnima K Sharma “ Analysis of Erbium Doped Fiber Amplifier on 16 Channel WDM System at 40 Gbps using NRZ Modulation Scheme” IJRAR May 2019, Volume 6, Issue 2 E-ISSN 2348-1269, P- ISSN 2349-5138). UGC and ISSN Approved - International Peer Reviewed Journal, Refereed Journal, Indexed Journal
3. Shilpa Jindal, Dinesh Sharma, Purnima K Sharma, “ Effect of Chromatic Dispersion on Multimode Fiber with varying Profile for Optical Access Networks” International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-05, Issue-02, May 2019.
4. Shilpa Jindal et.al., “A Kagome Crest Fractal Optimized Quad-Band Antenna for Wireless Applications” Traitement du Signal, Vol. 40, No. 2, April, 2023, pp. 719-726. ISSN: 0765-0019 (print); 1958-5608 (online), <https://doi.org/10.18280/ts.400231>. [SCIE]
5. Rahul Narang (CO19548), Vanshita Bansal (CO19562), Vasu Goel (CO19563) and Dr. Shilpa Jindal published a research paper titled "Development of Green, Low-Cost Smart Crop Health Monitoring System Using IOT," in Insights: An International Interdisciplinary Journal, Vol. 01, No. 02, June 2023, pg 11-19.

#### **International Conference:**

1. Gauri Khanna , Akash Tyagi, Gunpreet Singh , Shilpa Jindal “Bilingual Voice Controlled Home Automation System using IoT for Indian States” in International Conference on Electronics and Communication, Renewable Energy and IoTs- vision 2040 on 7 th -8 th September 2019 at IEI Punjab and Chandigarh state center.
2. Manmeet Singh Chawla, Dhananjay Prakash and Dr. Shilpa Jindal “Design of System for Measuring Air Properties for Help During COVID-19 Scenario” in 2nd International Conference on Aspects of Materials Science and Engineering ICAMSE2021 during 05th – 06th March, 2021 Organized by Panjab University, Chandigarh, India 05th – 06th March, 2021 ISSN = 2214-7853
3. Purnima Bansal, Aditi Ananya, Shilpa Jindal “IoT enabled dustbin for trash segregation and collection ” in International Conference on Emerging Technologies : AI, IoT, and CPS for Science & Technology Applications” organized by Department of Electronics and Communication Engineering & Electrical Engineering Department , NITTTR Chandigarh during 6th-7th September 2021.
4. Atulkumar, Amandeep Singh, Saurabh Panday, Shilpa Jindal “Trigger Based Anti-Violence Robot The Vision” in "International Conference on Emerging Technologies: AI, IoT, and CPS for Science & Technology Applications” jointly organized by Electronics and Communication Engineering & Electrical Engineering Department during September 6- 7, 2021.

5. Presented Research paper titled: “Amalgamation of Machine Learning Techniques with Optical Systems: A Futuristic Approach” in International Conference on Artificial Intelligence Of Things (ICAIoT 2023), 30th -31st March 2023 AT NITTTR Chandigarh. CCIS, Springer (Scopus Indexed).

#### **National Conference:**

- 1) Arshita , Shilpa Jindal “Perspective of NEP 2020 for integration of different engineering disciplines – A Step towards Atmanirbhar Bharat” in National Conference on Unlocking Atmanirbhar Bharat Through NEP-2020 27th November, 2020 organized by National Institute of Technical Teachers Training and Research Sector 26, Chandigarh – 160019.

#### **Book Chapter**

1. Contributed one **Book Chapter** titled “Green Optical Networks Based on Machine Learning Techniques “in book by Kaur, G., & Srivastava, A. (Eds.). (2022). Green Communication Technologies for Future Networks: An Energy-Efficient Perspective (1st ed.). **CRC Press. ebook ISBN 9781003264477, in Oct 2022.**<https://doi.org/10.1201/9781003264477>.  
<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003264477-8/green-optical-networks-based-machine-learning-techniques-shilpa-jindal?context=ubx>

#### **FDP/Workshop attended/ organised**

##### **a) Attended:**

1. 5-day online FDP on “Inculcating Universal Human Values in Technical Education” from August, 2021 to 6 August, 2021 organized by All India Council for Technical Education(AICTE)
2. Online Elementary FDP on "Internet of Things (IOT) with Artificial Intelligence (AI)" from 2021-7-12 to 2021-7-16 at Chandigarh College of Engineering & Technology (CCET-Degree Wing), (Affiliated to Panjab University, Chandigarh).by AICTE Training And Learning (ATAL) Academy
3. UGC approved Short term professional development Programme “Professional Development Program On Implementation of NEP -2020 for University And College Teachers” from 07-15 October 2022 by Indra Gandhi
4. 1 week short term course on “Implementation of IoT using Arduino and R-Pi” organized by NITTTR Chandigarh from 21<sup>st</sup> August – 25<sup>th</sup> August 2023, at CCET, Degree Wing Sector 26, Chandigarh.
5. Short term course on “MATLAB/SIMULINK for Engineers” organized by NITTTR Chandigarh from 8<sup>th</sup> May – 12<sup>th</sup> May 2023 (except 9<sup>th</sup> May 2023 as on official duty at power grid substation, Kurukshetra ), at CCET, Degree Wing Sector 26, Chandigarh.



6. 2 week short term course on “Advanced IoT applications using Arduino” organized by NITTTR Chandigarh from 30<sup>th</sup> Jan – 10<sup>th</sup> Feb 2023, at CCET, Degree Wing Sector 26, Chandigarh.
7. One Week FDP on “Artificial Intelligence and Optimisation Techniques using MATLAB” from 07/10/2024 to 11/10/2024,organized by NITTTR, Chandigarh
8. NEP 2020 Orientation & Sensitization Programme from 05.08.2024 to 16.08.2024 under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh.

**b) Industrial training**

1. 2 week professional training at BIS, Chandigarh from 18th to 29th July 2022 from 18th to 29th July 2022
2. 2 Week industrial training on “Power Grid And Telecom Systems “ from 1st June 2023 to 14th June 2023 at power grid , Chandigarh

**c) Organised:**

- 1) Coordinator of 5 day Short term course on “Optimization Techniques in Engineering” from **27/05/2019 to 31/5/2019** organized jointly by Applied science dept NITTTR Chandigarh and at ECE Dept, Chandigarh College of Engineering and Technology (DEGREE WING) . Chandigarh
- 2) Coordinator of AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "High Speed Wireless and Optical Technologies for developing Global Network" from **04/10/2021 to 08/10/2021** at Chandigarh College of Engineering and Technology (DEGREE WING) . Chandigarh.
- 3) Department of ECE is has organized online expert sessions on “Engineering and Society” on 23 rd September, 2021 (Thursday) for ECE students. The speaker Dr. Purnima K Sharma is an Associate Professor Dept of ECE, SVEC, Tadepalligudem, AP. She is having fourteen years teaching experience and is well known in the field of Research and Academics. Her speech and experience of life will give a direction & inspiration for today’s youth to become successful engineer.
- 4) Department of ECE is going has organized online expert sessions on “Importance of Human Values in Engineering” on 22<sup>nd</sup> September, 2021 (Wednesday) for ECE students. The speaker SAMIR R. SHAH is working as Lecturer, Mechanical Engg. Dept., M. S. University of Baroda, Vadodara. He is having twenty one years teaching and industrial experience and is well known in the field of Research and Academics. His speech and experience of life will gave a direction & inspiration for today’s youth to become successful engineer.

### **Phd research advisory committee member:**

- 1) Member of Research Advisory Committee (Phd) of Sh. Hardeep Saini, ECE Dept.
- 2) Member of Research Advisory Committee (Phd) of Sh.Rajendra Jampa, ECE Dept
- 3) Member. Research Advisory Committee of Mr. Mandeep Singh Walia, enrolment no. 19-20/454/ PhD with registration number 2019-EZ-213 at Department of Information Technology, UIET, Panjab University, Chandigarh. 12<sup>th</sup> Nov 2021 onwards.
- 4) Member of Research Degree Committee in Electronics and Communication Engineering, Panjab University, Chandigarh for 1<sup>st</sup> Jan 2023 to 31<sup>st</sup> Dec 2024. Endst no. CCET/DG/Acds/RF-83/2023/6805-09 Dated 27<sup>th</sup> March 2023.

### **Expert talk**

- 1) Delivered Guest lecture on “Role of IoT (Internet of Things) for societal needs” on March 22, 2021 to faculty and students of ECE and CSE department of Yaduvanshi college of Engineering And Technology, Narnaul, Haryana .
- 2) Resource Person for webinar on “Innovation through Technology: Solution to Societal Needs” on **May 14, 2021**. Centre of Excellence for Research & Innovation (CERI), CT Institute of Engineering, and Management & Technology under the umbrella of CT Group of Institutions Jalandhar Punjab, India
- 3) Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "High Speed Wireless and Optical Technologies for developing Global Network" from **04/10/2021 to 08/10/2021** at Chandigarh College of Engineering and Technology (DEGREE WING) . Chandigarh titled “High-Speed Optical Communication covering Global Network”
- 4) Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " One-week online Faculty Development Program on “Wireless Sensor Networks and IoT” from **10<sup>th</sup> Jan 2022 to 14<sup>th</sup> Jan 2022** Organized by Department of Electronics and Communication Engineering Delhi Technological University Bawana Road, Shahbad, Daulatpur Delhi-110042. Titled :Trends in Optical Networking for IoT Applications:

### **Membership of Professional Societies**

1. Life member of Institute of Engineers (IEI) , Kolkata since M 152381-8 since 2016
2. Life member of the Indian Society of Technical Education (ISTE) LM 123811 since 6<sup>th</sup> July 2021.

### **REVIEWER of the Journals and Conferences**

1. **Reviewer of Journal** of The Institution of Engineers (India): Series B published by **Springer** India

2. **Reviewer** for ICAMSE2020 (International Conference on Aspects of Materials Science and Engineering) held at Panjab University during 29th – 30th May 2020. Materials Today: Proceedings by **Elsevier**
3. **Reviewer** for 2<sup>nd</sup> International Conference on Aspects of Materials Science and Engineering (ICAMSE2021). University Institute of Engineering and Technology (UIET), Panjab University, Chandigarh, India. Materials Today: Proceedings published by **Elsevier**
4. **Reviewer** for the 3<sup>rd</sup> International Conference on Mobile Radio Communication & 5G Networks – 2022 Organised by: Department of Electronics & Communication Engineering, Kurukshetra University, Kurukshetra, Haryana University Institute of Engineering & Technology Proceedings published by **Springer**
5. **Reviewer** for the “ICAIoT2023” : International Conference on Artificial Intelligent of Things, NITTTR, Chandigarh, India; during **March 30-31, 2023**. published by **Springer**
6. Reviewer for International Conference on Innovative Trends in Electrical, Electronics and Bio-Technology Engineering. 3<sup>rd</sup>-4<sup>th</sup> **July 2024** Organized by: Department of Electronics and Communication Engineering Chandigarh University, Gharuan, Mohali, Punjab
7. **Reviewer** for the 5th **IEEE** India Council International Subsections Conference (INDISCON 2024) during **August 22-24, 2024**, PEC Chd and & IEEE Chandigarh Subsection.

### **ICT Trainer**

ICT Trainer of project GIANI (A Govt. ICT training - a new Initiative) for developing ICT Skills, Directorate OF Technical Education, Union Territory, Chandigarh