

### Faculty Profile

<b>Faculty Name</b>	Rajeev Kumar
<b>Designation</b>	Assistant Professor
<b>Qualification</b>	Ph.D*, M.Tech, B.E
<b>Email</b>	rajeev.ece@piet.co.in
<b>Area of Interest</b>	Light Fidelity (Li-Fi), Soft Computing, Machine Learning, Deep Learning
<b>Work Experience (Total)</b>	
<ul style="list-style-type: none"> <li>• Teaching</li> </ul>	8 Years 4 Months
<ul style="list-style-type: none"> <li>• Research</li> </ul>	6 Months
<ul style="list-style-type: none"> <li>• Industry</li> </ul>	Nil
<ul style="list-style-type: none"> <li>• Others</li> </ul>	Nil
<b>Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level</b>	Electronic Devices, Digital Communication, Analog Communication, Electromagnetic Field Theory, Fundamental of Microprocessor Interfacing and Application, Digital Signal Processing, Wireless & Mobile Communication, Satellite Communication, Optical Communication, Adaptive Filter Theory
<b>Membership of Professional Bodies</b>	Nil
<b>Research Publications</b>	8
<ul style="list-style-type: none"> <li>• Research Papers UGC-CARE</li> </ul>	5
<ul style="list-style-type: none"> <li>• Research Papers SCOPUS</li> </ul>	1
<ul style="list-style-type: none"> <li>• Research Papers WoS/SCI/ABDC</li> </ul>	2
<ul style="list-style-type: none"> <li>• List of Publications</li> </ul>	<ul style="list-style-type: none"> <li>• Rajeev Kumar, “Robust Digital Image Watermarking in YCbCr Color Space using Hybrid Method”, IT in Industry, vol. 9, no.1, 2021, SSN (Print): 2204-0595 ISSN (Online): 2203-1731, 18-March-2021</li> <li>• Rajeev Kumar, “Robust Digital Image Watermarking in YCbCr Color Space using Hybrid Method: A Survey”, IT in Industry, vol. 9, no.1, 2021, SSN (Print): 2204-0595 ISSN (Online): 2203-1731, 18-March-2021</li> <li>• Rajeev Kumar, “ Clustering AODV Algorithm for the Body Area Sensor Networks Based on IEEE 802.15.4”, International Journal of Advanced Science and Technology (IJAST), Vol. 29, No.4, (2020), pp.9443 – 9450,</li> </ul>

	<p>ISSN: 2005-4238</p> <ul style="list-style-type: none"> <li>• Rajeev Kumar, “Clustering AODV Algorithm for the Body Area Sensor Networks Based on IEEE 802.15.4: A Survey”, International Journal of Enhanced Research in Science, Technology &amp; Engineering (IJERST), ISSN: 2319-7463, Vol. 9 Issue 8, August-2020, Impact Factor: 6.754</li> <li>• Rajeev Kumar, “Design and Development of Li-Fi based Tv Broadcast Studio at PIET, International Journal of Management, Technology And Engineering, ISSN NO: 2249-7455, Volume IX, Issue XI, Nov/2019</li> <li>• Rajeev Dhanda, “Digital Image Watermarking Technique in YCbCr Color Space using Diverse Techniques”, International Journal of Emerging Technology &amp; Advanced Engineering (ISSN 2250-2459, ISO 9001:2008 Certified Journal), Volume 8, Issue 5, May, 2018.”</li> <li>• Rajeev Dhanda, “Hybrid Method For Image Watermarking Using 2 Level LWT-Walsh Transform- SVD in YCbCr Color Space”, International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169, Volume 5, Issue 11, 2017, 216 – 221</li> <li>• Rajeev Kumar, “Simulink Model Analysis of Modulation Technique of UWB, OFDM and CDMA for Different Parameter”, International Journal for Scientific Research and Development (IJSRD), ISSN: 2321-0613, Vol 5, Issue 6, 2017</li> </ul>
<b>Book and Chapter Publications</b>	Nil
<ul style="list-style-type: none"> <li>• Books Authored published by International Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Books Authored published by National Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Publication of Chapter in Edited Books</li> </ul>	
<ul style="list-style-type: none"> <li>• Editor of Book by International Publishers</li> </ul>	

<ul style="list-style-type: none"> <li>• Editor of Book by National Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Translation Work of Book</li> </ul>	
<ul style="list-style-type: none"> <li>• List of Book and Chapter Publications</li> </ul>	
<b>Patents</b>	10
<ul style="list-style-type: none"> <li>• Published</li> </ul>	10
<ul style="list-style-type: none"> <li>• List of published patent(s)</li> </ul>	<ul style="list-style-type: none"> <li>• A System for Projector Connectivity Through Light Fidelity: Li-Fi (Published: 18 Sep 2020), Application No: 202011035129</li> <li>• A Device for Connecting Projector and Smart Phone Through Light Fidelity: Li-Fi (Published: 16 Oct 2020), Application No: 202011041863</li> <li>• A System for Broadcasting Data from One Mobile to Other Mobiles through Light Fidelity Li-Fi Linking (Published: 20 Nov 2020), Application No: 202011048508</li> <li>• A Light Fidelity (Li-Fi) Linked Heterogeneous Device Broadcast System (Published: 29 Nov 2020), Application No: 202011049530</li> <li>• A Light Fidelity(Li-Fi) Based Wireless CCTV System (Published: 18 Dec 2020), Application No: 202011054478</li> <li>• A Light Fidelity (Li-Fi) Based Wireless Stereo Sound System (Published: 29 Jan 2021), Application No: 202111002663</li> <li>• A Light Fidelity (Li-Fi) Based Single Laser Audio/Video Transmission System using Frequency Division Multiplexing (Published: 26 March 2021), Application No: 202111012296</li> <li>• A Light Fidelity (Li-Fi) Based Single Laser Stereo Transmission System using Frequency Division Multiplexing (FDM), (Published: 30 April 2021), Application No: 202111017943</li> <li>• A Light Fidelity (Li-Fi) Based Single Laser Stereo Audio and Video Transmission System using Frequency Division Multiplexing (FDM), (Published: 30 April 2021), Application No: 202111018503</li> <li>• A Light Fidelity (Li-Fi) enabled remote Face Recognition System, (Published: 21 May 2021), Application No:</li> </ul>

	202111021530
<ul style="list-style-type: none"> <li>• Filed</li> </ul>	
<ul style="list-style-type: none"> <li>• List of filed patent(s)</li> </ul>	
<b>PhD Guidance</b>	Nil
<ul style="list-style-type: none"> <li>• Degree Awarded</li> </ul>	
<ul style="list-style-type: none"> <li>• Thesis Submitted</li> </ul>	
<b>M.Tech. Guidance</b>	<ul style="list-style-type: none"> <li>• Tushar Rohilla, “Robust Digital Image Watermarking in YCbCr Color Space using Hybrid Method”</li> <li>• Parshant Saini, “ Clustering AODV Algorithm for the Body Area Sensor Networks Based on IEEE 802.15.4</li> <li>• Pooja Budhwar, “Simulink Model Analysis of Modulation Technique of UWB, OFDM and CDMA for Different Parameter</li> </ul>
<ul style="list-style-type: none"> <li>• Degree Awarded</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Thesis Submitted</li> </ul>	Yes
<b>Research Project</b>	Nil
<ul style="list-style-type: none"> <li>• List of Research project</li> </ul>	
<b>Consultancy</b>	Nil
<ul style="list-style-type: none"> <li>• List of Consultancy</li> </ul>	
<b>Awards &amp; Honours</b>	
<ul style="list-style-type: none"> <li>• List of Awards &amp; Honours</li> </ul>	<ul style="list-style-type: none"> <li>• Awarded for adjudicating the Event: “Light –A Ray of Hope” on occasion of the International Day of Light-May 16, 2021</li> <li>• Awarded exceptional contribution as a Judge in “Smart India Hackathon, 2019”</li> <li>• Awarded certificate of merit in “Task Based Training-2019” through e-Yantra Lab Setup Initiative (eLSI), Department of CSE, IIT Bomaby</li> <li>• Received certificate of appreciation in International Conference on INTELLIGENT SYSTEM: Approaches, Technologies and Networks, 29 March, 2019</li> <li>➤ Recieved Certificate of Appreciation in National Open Rope Skipping Championship for outsatnding service as Food Incharge, 20 May-22 May 2013</li> </ul>

<b>Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference</b>	
<ul style="list-style-type: none"> <li>• International (Abroad)</li> </ul>	
<ul style="list-style-type: none"> <li>• International (Within Country)</li> </ul>	
<ul style="list-style-type: none"> <li>• National</li> </ul>	<ul style="list-style-type: none"> <li>• Rajeev Kumar, “ Design and Development of Li-Fi based Tv Broadcast Studio at PIET, International Journal of Management, Technology And Engineering, ISSN NO: 2249-7455, Volume IX, Issue XI, Nov/2019</li> </ul>
<ul style="list-style-type: none"> <li>• List of published papers</li> </ul>	
<b>Organizing National Conference/ International Conference/ FDP/STTP</b>	
<ul style="list-style-type: none"> <li>• List of Conference/FDP/STTP committee</li> </ul>	<ul style="list-style-type: none"> <li>• AICTE Sponsored online 6 Days STTP “Design of Soft Computing based Machine Learning Models”, (26 April 2021-01 May) 2021</li> </ul>
<b>Social Contributions and Sports</b>	
<ul style="list-style-type: none"> <li>• <b>List of Social Contributions and Sports</b></li> </ul>	<ul style="list-style-type: none"> <li>• “Sawachta Hi Seva Hai” executed the task assigned by NSS Coordinator Gynander Ghanghas at PIET College and distributed Bags in DIKADLA Village)</li> <li>• “Sawasth Bharat Summer Internship” executed the task assigned by NSS Coordinator Gynander Ghanghas at PIET College and Motivated People for “Swachhta) in Khalila Pahladpur Village)</li> <li>• Frequent Blood Donor ( Atlest twice in a year such as blood donor in Rotract Club held in PIET)</li> </ul>