STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

<table>
<tr><td>Title</td><td>Dr</td><td>First Name</td><td>Chakresh</td><td>Last Name</td><td>Kumar</td><td rowspan="3">  </td></tr>
<tr><td colspan="2">Designation</td><td colspan="4">Assistant Professor</td></tr>
<tr><td colspan="2">School /Dept. Name</td><td colspan="4">University School of Information and Communication Technology (USICT)</td></tr>
<tr><td colspan="2">Address:</td><td colspan="5">Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, Delhi, 110078</td></tr>
<tr><td colspan="2" rowspan="3">Phone No.</td><td>Office</td><td colspan="4">01125302702</td></tr>
<tr><td>Residence</td><td colspan="4">(optional)</td></tr>
<tr><td>Mobile</td><td colspan="4">(optional)</td></tr>
<tr><td colspan="2">Email</td><td colspan="3">1. Chakreshk@ipu.ac.in</td><td colspan="2">2. ckumardhan@gmail.com</td></tr>
<tr><td colspan="2">Web Page (if any)</td><td colspan="5"></td></tr>
<tr><td colspan="2">Subjects Taught</td><td colspan="5">• Optical fiber Communication
• Basic Electronics
• Network analysis
• Signal and systems
• Control Engineering
• Digital Electronics
• Communications systems
• Electrical Engineering
• Satellite Communication</td></tr>
<tr><td colspan="2">Areas of Interest/ Specialization</td><td colspan="5">• Optical fiber Communication, Electronics and Communication</td></tr>
<tr><td colspan="2" rowspan="4">Experience (in years)</td><td>Total</td><td colspan="4">14</td></tr>
<tr><td>Industry</td><td colspan="4">01</td></tr>
<tr><td>Teaching</td><td colspan="4">13</td></tr>
<tr><td>Research</td><td colspan="4">13</td></tr>
<tr><td colspan="2" rowspan="4">Educational Qualifications</td><td>UG</td><td colspan="4">B-Tech in Electronics and Communication Engineering</td></tr>
<tr><td>PG</td><td colspan="4">M-Tech in Electronics and Communication Engineering with specialization in optical fiber communication</td></tr>
<tr><td>Doctorate</td><td colspan="4">PhD-Optical Fiber Communication</td></tr>
<tr><td>Any other – Diploma in IPR</td><td colspan="4"></td></tr>
</table>

Research Publications in Journals (last 5 years)	1. **Chakresh Kumar** and Rakesh Goyal, "Performance Evaluation of Hybrid optical amplifiers for super dense wavelength division multiplexing system with 25 GHz channel spacing" Journal of Nanoelectronics and Optoelectronics, vol.13, pp.275-280, 2018**. (IF- 1.069)** 2. **Chakresh Kumar**, Ghanendra Kumar and Rakesh Goyal "Performance evaluation of dynamically flattened gain L Band RAMAN-EDFA-RAMAN hybrid optical amplifier for super dense wavelength division multiplexing system", Indian Journal of Pure & Applied Physics, 2019. **(IF- 0.923)** 3. **Chakresh Kumar** and Rakesh Goyal, "Performance Evaluation of RAMAN-EDFA-RAMAN Hybrid Optical Amplifier in the Context of High Spectral Efficiency", Journal of Nanoelectronics and Optoelectronics, vol.13, pp.275-280, 2019. **(IF- 1.069)** 4. **Chakresh Kumar** and Rakesh Goyal, "Experimental Evaluation of HOA in term of Flat Gain in C-Band for Super Dense Optical Communication System", Wireless Personal Communications, 2019. **(IF- 1.671)** 5. **Chakresh Kumar** and Rakesh Goyal, "Performance Analysis of Hybrid Optical Amplifiers for Super Dense Wavelength Division Multiplexing System in the Scenario of Reduced Channel Spacing" MAPAN, vol.33, pp.159-164, 2018. **(IF- 1.009)** 6. **Chakresh Kumar** and Rakesh Goyal, "A Novel Flattened Gain C-Band Cascaded Hybrid optical Amplifier RAMAN and Thulium Doped Fluoride fiber Amplifier for Super Dense Wavelength Division Multiplexing System" Optica Applicata, vol.48, pp.173-177, 2018. **(IF- 0.673)** 7. **Chakresh Kumar** and Rakesh Goyal, "L-Band Flat-Gain RAMAN with Erbium Doped Fluoride Fiber Amplifier Hybrid Optical Amplifier for Super Dense Wavelength Division Multiplexing System" Journal of Russian Laser Research, vol.39, pp. 263-266, 2018. **(IF- 0.607)** 8. **Chakresh Kumar** and Rakesh Goyal, "RAMAN-Ytterbium Doped Hybrid Optical Amplifier yielding Flat Gain in S-band for Super Dense Wavelength Division Multiplexing System" Journal of Scientific & Industrial Research, 2019. **(IF- 1.056)** 9. **Chakresh Kumar** and Ghanendra Kumar, Impact of Adaptive Modulated OOFM signals for SD-WDM System using HOA, Applied Physics A, 2019. **(IF- 2.584)** 10. **Chakresh Kumar** and Ghanendra Kumar, "Flattened Gain/ Noise figure in L-Band Consisting of Cascaded RAMAN-Quantum Dot Vertical Cavity Semiconductor Hybrid Optical Amplifier for Super Dense Wavelength Division Multiplexing System" Journal of Russian Laser Research, 2019. **(IF- 0.607)**
Papers Published in Conference Proceedings(last 5 years)	1. **Chakresh Kumar** and Rakesh Goyal, "Design and Analysis of 240 x 12 Gb Super Dense Multiplexing Optical Communication System with Hybr Optical Amplifiers" International Conference on Materials for Energ Applications (ICME-18), December, 6th to 8th at SSJPC, Jaipur, 2018. 2. **Chakresh Kumar** and Rakesh Goyal, "Analysis of 290 x 10 Gbps Sup Dense optical Communication System to Mitigate the Effect of Fib Nonlinearities using Acoustic Phase Conjugation with Hybrid Optic Amplifier" Conference on AGRI-SMART 2018: Using IoT for driving Sma Agriculture, November 19th to 20th at (C-DAC, Mohali), 2018. 3. **Chakresh Kumar** and Rakesh Goyal, "Acceptable Flat Gain S+C band usi Hybrid Optical Amplifier for Super Dense Communication Systen

<table>
<tr><td></td><td colspan="4">Conference on AGRI-SMART 2018: Using IoT for driving Sma Agriculture, November 19th to 20th at (C-DAC, Mohali), 2018.
4. Chakresh Kumar and Ghanendra Kumar “Analysis the DWDM Systen using DPSK for suitable BER” International Conference on Advance Functional Materials (AFM-2020), 23-25 January, 2020, at Kamla Neh Mahavidyalaya, Nagpur.
5. Chakresh Kumar and Ghanendra Kumar “Swarm intelligence wi embedded system” JTA Multidisciplinary International Conferen (JTACON-2020), 17-18 February, 2020, at Jamia Millia Islamia Universit Delhi.
6. Chakresh Kumar and Ghanendra Kumar “Impact of Duplex using HOA f Optical fiber Communication System” JTA Multidisciplinary Internation Conference (JTACON-2020), 17-18 February, 2020, at Jamia Millia Islam University, Delhi.</td></tr>
<tr><td>Books Authored/ BookVolume Chapters</td><td colspan="4">•</td></tr>
<tr><td rowspan="3">No. of Conferences</td><td rowspan="2">National</td><td colspan="2">Attended</td><td>Organized</td></tr>
<tr><td colspan="2"></td><td></td></tr>
<tr><td>International</td><td colspan="2"></td><td></td></tr>
<tr><td rowspan="3">Research Guidance</td><td rowspan="2">Awarded</td><td>PG</td><td>M. Phil</td><td>Doctorate</td></tr>
<tr><td>20</td><td></td><td></td></tr>
<tr><td>Undergoing</td><td></td><td></td><td>04</td></tr>
<tr><td rowspan="2">Research Projects</td><td>Completed</td><td colspan="3">04</td></tr>
<tr><td>Undergoing</td><td colspan="3"></td></tr>
<tr><td>Awards & Distinctions</td><td colspan="4"></td></tr>
<tr><td>Administrative Assignments Handled</td><td colspan="4"></td></tr>
<tr><td>Association with Professional Bodies</td><td colspan="4"></td></tr>
<tr><td>Any other Achievements</td><td colspan="4">Dr. Chakresh Kumar presently works as an Assistant Professor in USICT at Guru Gobind Singh Indraprastha University, New Delhi, India. His area of research is on high-speed optical communication systems and networks. He is life time member of ISTE, SSI, IETE, Alumnus of Indian Institute of Technology (Indian School of Mines), Dhanbad, and received a Ph.D degree from I. K.Gujral, Punjab Technical University, Jalandhar. Before taking the current assignment, he served as Assistant Professor in the Department of Electronics and communication Engineering at Tezpur Central University Assam, India. He also selected for the post of Assistant</td></tr>
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	professor in the Department of Electronics and Communication Engineering at Shri Mata Vaishno Devi University (SMVDU), Katra, J&K. He has published more than 120 research papers in international journals, more than 130 research papers in international conferences, 20 books with international publishers and 03 patent under his credit. He is serving as Editor board member and international scientific member of technical journals and societies in Prague (Czechia), Istanbul (Turkey), Paris (France), London (United Kingdom) and many more. He has been awarded with many prestigious awards such as Honor of International Plato Award for Educational Achievement, Bharat Jyoti Award, Shiksha Rattan Puraskar from Dr.Bhishma Narain Singh Former Governor of Tamilnadu & Assam, Honor of Bentham Ambassador for India, Honor of Young Scientist Award and Outstanding Scientist Award in 2011, 2013, 2014, 2019 and 2020 respectively. He has also been awarded with the certificate of felicitation and Honor of Rashtriya Gaurav and Bharat Excellence award along with the certificate of outstanding contribution in teaching and research from Dr.G.V.G. Krishnamurty Hon'ble Former Election Commissioner of India in 2015. He has been received certificate of appreciation from Texas Instruments for fostering an ecosystem bridging Government, Industry, and academia in 2019. He has also been conferred for the faculty achievement award by Guru Gobind Singh Indraprastha University in recognition of his significancy scholarly contribution to the academic excellence in the field of professional education in 2020.