

3.4.5

**Number of books and chapters in edited volumes published per teacher during the last five years
(2019-2023): 53**

Sl. No.	Name of the teacher	Title of the book published	Title of the chapters published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher	URL
1	Prof. M. Tariq Bandy		DESIGN AND SIMULATION OF HIGH PERFORMANCE DOPINGLESS TUNNEL DIODE	2019	9781728135243	Yes	IEEE	https://www.proceedings.com/57585.html
2	Prof. M. Tariq Bandy		Security in the Context of Internet of Things: A Study	2019	9781522557425	Yes	IGI Global	https://www.igi-global.com/chapter/security-

								in- context -of-the- internet -of- things/2 68635
3	Prof. M. Tariq Banday	Addressing Security Issues of the Internet of Things Using Physically Unclonable Functions		2019	9781522557425	Yes	IGI Global	https://www.researchgate.net/publication/330573873_Addressing_Security_Issues_of_the_Internet_of_Things_Using_Physically_Unclonable_Functions

4	Prof. M. Tariq Bandy	Digital Forensics in the Context of the Internet of Things		2019	9781522557425	Yes	IGI Global	https://www.researchgate.net/publication/330573471_Digital_Forensics_in_the_Context_of_the_Internet_of_Things
5	Prof. M. Tariq Bandy		Cryptographic Security Solutions for the Internet of Things	2019	9781522557425	Yes	IGI Global	https://www.igi-global.com/book/cryptographic-security-solution-s-internet-things/192031

6	Prof. M. Tariq Bandy		Improving Security Control of Text-Based CAPTCHA Challenges using Honey-pot and Timestamping	2020	978-1-7281-4889-2/20	Yes	IEEE	https://ieeexplore.ieee.org/document/9076410
7	Prof. M. Tariq Bandy	Empirical Performance Analysis of Wavelet Transform Coding Based Image Compression Techniques		2020	1799800660	Yes	IGI Global	
8	Prof. M. Tariq Bandy	A Review of Contemporary Image Compression Techniques and Standards		2020	1799800660	Yes	IGI Global	https://www.igi-global.com/chapter/empirical-performance-analysis-of-wavelet-transform-coding-

								based-image-compression-techniques/236822
9	Prof. M. Tariq Banday	Digital Forensics in the Context of the Internet of Things		2020	9781668438091	Yes	IGI Global	https://www.igi-global.com/chapter/a-review-of-contemporary-image-compression-techniques-and-standards/236824#:~:text=Uncompre

								ssed%20multi media%20data%20such%20as,before%20its%20storage%20or%20transmission.
10	Prof. M. Tariq Banday		Secure E-mail Communications Through Cryptographic Techniques—A Study	2021	ISBN978-981-15-1274-2	Yes	Springer	https://www.researchgate.net/publication/330573471_Digital_Forensics_in_the_Context_of_the_Internet_of_Things

11	Prof. M. Tariq Banday		Power Consumption Estimation of SHA-3 for the Internet of Things Applications	2021	978-981-15-5463-6	Yes	Springer	https://link.springer.com/chapter/10.1007/978-981-15-1275-9_19
12	Prof. M. Tariq Banday		Security in Context of the Internet of Things: A Study	2021	1799853519	Yes	IGI Global	https://link.springer.com/chapter/10.1007/978-981-15-5463-6_91
13	Prof. M. Tariq Banday		Addressing Security Issues of the Internet of Things Using Physically Unclonable Functions	2021	1799853519	Yes	IGI Global	https://www.igi-global.com/chapter/security-in-context-of-the-internet-of-things/2

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14	Prof. M. Tariq Banday		Security in Context of the Internet of Things: A Study	2021	1799853519	Yes	IGI Global	https://www.igi-global.com/chapter/addressing-security-issues-of-the-internet-of-things-using-physically-unclonable-functions/268608

15	Prof. M. Tariq Bandy		Implementation of Area and Power Optimised ARM Cortex-M Cores on FPGA	2022	9781665460484	Yes	IEEE	https://www.igi-global.com/chapter/security-in-context-of-the-internet-of-things/268635
16	Prof. M. Tariq Bandy		Performance Comparison of Software-Efficient Implementations of the PRESENT Block Cypher	2022	9781665460484	Yes	IEEE	https://ieeexplore.ieee.org/document/10009282
17	Prof. M. Tariq Bandy		Design of Hybrid Glitch-Reduction Techniques for Loop Unrolled SIMON Block Cypher	2022	9781665460484	Yes	IEEE	https://ieeexplore.ieee.org/document/10009097

18	Prof. M. Tariq Bandy		Optimised Hardware Implementation of AES for Improving Energy Efficiency of Low-Power Devices	2022	9781665460484	Yes	IEEE	https://ieeexplore.ieee.org/document/10009429
19	Prof. M. Tariq Bandy		FPGA Implementation of PRESENT Block Cypher with Optimised Substitution Box	2022	9781665460484	Yes	IEEE	https://ieeexplore.ieee.org/document/10009468
20	Prof. M. Tariq Bandy		Implementation Techniques for GIFT Block Cypher: A Real-Time Performance Comparison	2022	9781665460484	Yes	IEEE	https://ieeexplore.ieee.org/document/10009366

21	Prof. M. Tariq Bandy		A Performance Comparison of Hashed and Authenticated Advanced Encryption Standard	2022	9781665460484	Yes	IEEE	https://www.researchgate.net/publication/367121927_Implementation_Techniques_for_GIFT_Block_Cipher_A_Real-Time_Performance_Comparison
22	Prof. M. Tariq Bandy		Ultra-Low Power Microcontroller Architectures for the Internet of Things	2023	978-1-6654-7467-2	Yes	IEEE	https://ieeexplore.ieee.org/document/10009112

23	Prof. M. Tariq Bandy	Towards Building Internet of Things Inclusive Healthcare for Neglected Tropical Diseases		2023	1668435330	Yes	IGI Global	https://ieeexplore.ieee.org/document/10060949
24	Dr. Farooq Ahmad Khanday	Nanoscale Electronic Devices and Their Applications		2020	9780367808624	Yes	Taylor and Francis	https://www.igi-global.com/chapter/towards-building-internet-of-things-inclusive-healthcare-for-neglected-tropical-diseases/313069

25	Dr. Farooq Ahmad Khanday	Fractional Order Systems: Mathematics, Design and Applications for Engineers		2021	978-0-12-824293-3	Yes	Academic Press (Elsevier)	https://doi.org/10.1201/9780367808624
26	Dr. Farooq Ahmad Khanday	Fractional Order Modelling of Dynamic Systems with Applications in Optimization, Signal Processing and Control		2021	978-0-323-90089-8	Yes	Academic Press (Elsevier)	https://doi.org/10.1016/B978-0-12-824293-6-5
27	Dr. Farooq Ahmad Khanday	Fractional Order Design: Devices, Circuits and Systems		2021	978-0-323-90090-4	Yes	Academic Press (Elsevier)	https://doi.org/10.1016/B978-0-32-390089-8-4
28	Dr. Farooq Ahmad Khanday		Optimal Circuit Decomposition of Reversible Quantum Gates on IBM Quantum	2023	9781668466971	Yes	IGI Global	https://doi.org/10.1016/B978-0-32-390090-0

29	Dr. Farooq Ahmad Khanday
30	Dr. Farooq Ahmad Khanday

Computers						- 4.0000 6-8
Spin Transistors: Different Geometries and Their Applications	2022	9781003196952	Yes	CRC Press		10.401 8/978- 1-6684- 6697- 1.ch008
Spin-Transfer Torque for Universal Memory Applications	2022	9781003196952	Yes	CRC Press		https:// www.ta ylorfran cis.com /chapter s/edit/1 0.1201/ 978100 319695 2- 4/spin- transist ors-gul- faroz- ahmad- malik- mubash ir- ahmad- kharadi -

								farooq-ahmad-khanday-zaid-mohammad-shah-sparsh-mittal
31	Dr. Farooq Ahmad Khanday	Fractional Calculus in Electronic Circuits: A Review		2021	978-0-12-824293-3	Yes	Academic Press (Elsevier)	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003196952-5/spin-transfer-torque-universality-applications-

								sameen a-shah- gul- faro- ahmad- malik- mubash ir- ahmad- kharadi - farooq- ahmad- khanda y
32	Dr. Farooq Ahmad Khanday		Dynamics and Implementation Techniques of Fractional-order Neuronal Models: A Survey	2021	978-0-12- 824293-3	Yes	Academi c Press (Elsevier)	https://doi.org/10.1016/B978-0-12-824293-3.0006-5

33	Dr. Farooq Ahmad Khanday
34	Dr. Farooq Ahmad Khanday
35	Dr. Farooq Ahmad Khanday
36	Dr. Farooq Ahmad Khanday

Analog and Digital Implementation of Fractional-order FitzHugh-Nagumo (FO-FHN) Neuron Model	2021	978-0-323-90089-8	Yes	Academic Press (Elsevier)	https://doi.org/10.1016/B978-0-12-824293-3.0006-5
Fabrication of polymer nanocomposite-based Fractional-order Capacitor	2021	978-0-12-824293-3	Yes	Academic Press (Elsevier)	https://doi.org/10.1016/B978-0-32-390089-8.0006-4
Photo-detectors based on two dimensional materials	2021	978-1-83968-556-9	Yes	IntechOpen	https://doi.org/10.1016/B978-0-12-824293-3.0006-5
Ultra-Low-Voltage Implementation of Neural Networks	2019	9781138710368	Yes	CRC Press	10.5772/intechopen.95559

37	Dr Shabir A. Parah	Artificial Intelligence for Innovative Healthcare Informatics	Automatic Classification of COVID-19 Infected Patients Using Convolution Neural Network Models	2022	978-3-030- 96568-6	Yes	Springer	https://link.springer.com/book/10.1007/978-3-030-96569-3
38	Dr Shabir A. Parah	Artificial Intelligence for Innovative Healthcare Informatics	Detection of Breast Cancer Masses in Mammogram Images with Watershed Segmentation and Machine Learning Approach	2022	978-3-030- 96568-6	Yes	Springer	https://link.springer.com/chapter/10.1007/978-3-030-96569-3_6
39	Dr Shabir A. Parah		Image Encryption Based on DNA Substitution and Chaotic Theory	2021	978-981-15- 8710-8	Yes	Springer	https://link.springer.com/chapter/10.1007/978-3-030-96569-3_2

40	Dr Shabir A. Parah		Data Embedding in Color Images: A Secure Data Communication Framework Based on Modular Arithmetic	2021	978-981-15- 8710-8	Yes	Springer	https:// link.spr inger.c om/cha pter/10. 1007/9 78-981- 15- 8711- 5_3
41	Dr Shabir A. Parah		Information Embedding Using DNA Sequences for Covert Communication	2021	978-981-15- 8710-8	Yes	Springer	https:// link.spr inger.c om/cha pter/10. 1007/9 78-981- 15- 8711- 5_8
42	Dr Shabir A. Parah		Information Hiding in Color Images Utilizing Multi-bit Substitution Patterns	2021	978-981-15- 8710-8	Yes	Springer	https:// link.spr inger.c om/cha pter/10. 1007/9 78-981- 15- 8711- 5_6

43	Dr Shabir A. Parah	Intelligent Multimedia Signal Processing for Smart Ecosystems	Smart Ecosystems for Sustainable Development: Opportunities, Challenges, and Solutions	2023	978-3-031- 34872-3	Yes	Springer	https://link.springer.com/chapter/10.1007/978-981-15-8711-5_7
44	Dr. Javaid Ahmad Sheikh		A New method of 5G based Mobile Computing for Internet of Medical Things (IoMT) Applications	2023	9781003303374	Yes	CRC Taylor and Francis	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003303374-5/new-method-5g-based-mobile-computing-iomt-applications-javid-sheikh-sakeena

								-akhtar-rehana-amin
45	Dr. Javaid Ahmad Sheikh		Intelligent and Reliable Cognitive 5G Networks using Whale Optimization Techniques”	2022	978-3-031-09834-5	Yes	Springer	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003303374-5/new-method-5g-based-mobile-computing-iomt-applications-

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46	Dr. Javaid Ahmad Sheikh	Compact Millimeter-Wave Low-Cost Ka-Band Antenna for Portable 5G Communication Gadgets	2021	978-981-16-0732-5	Yes	Springer	https://link.springer.com/chapter/10.1007/978-3-031-09835-2_10
47	Dr. Javaid Ahmad Sheikh	Compact High Gain 28Ghz Concentric Circular Director Low-cost Antenna for 5G millimetre Wave Communications	2021	978-981-15-7803-8	Yes	Springer	https://link.springer.com/chapter/10.1007/978-981-16-0733-2_4

48	Dr. Javaid Ahmad Sheikh	“Design and simulation of bio-inspired algorithm based cognitive radio for 5G networks	2020	9781003003472	Yes	CRC Taylor and Francis	https://link.springer.com/chapter/10.1007/978-981-15-7804-5_9
49	Dr. Javaid Ahmad Sheikh	Design and Simulation of New Beamforming based Cognitive Radio for 5G	2020	9781003003472	Yes	CRC Taylor and Francis	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003003472-14
50	Dr. Javaid Ahmad Sheikh	Resource Allocation in Co-operative Relay Networks for IOT Driven Broadband Multimedia Services	2019	978-3-030-15886-6	Yes	Springer	https://2024.ieee-apscon.org/

51	Dr. Javaid Ahmad Sheikh		A Secure Medical Image Watermarking Technique for E- Healthcare Applications	2019	978-3-030- 15886-6	Yes	Springer	https://link.springer.com/chapter/10.1007/978-3-030-15887-3_6
52	Dr. Javaid Ahmad Sheikh		Evaluation of spectral efficiency for 5G waveform contenders	2020	978-981-16- 1047-9	Yes	Springer	https://link.springer.com/chapter/10.1007/978-981-16-1048-6_44
53	Dr. Javaid Ahmad Sheikh		Compact High Gain 28 GHz Concentric Circular director low cost antenna for 5G Millimetre-Wave Communication	2021	978-981-15- 7803-8	Yes	Springer	https://link.springer.com/chapter/10.1007/978-981-15-7804-5_9