

Faculty Profile

NFSU, Goa Campus



Email:
rajendra.sarin_goa@nfsu.ac.in

Name	Dr. R.K. Sarin
Designation	Professor
Qualification	M.Sc., Ph.D Qualified “Public Analyst” exam conducted by duly constituted board by DGH, Min. of Health and Family Welfare, Govt. of India
Experience	41 years Former Director, State Forensic Science Laboratory, Andhra Pradesh Former Director, Central Forensic Science Laboratory, Hyderabad Former Director, Forensic Science Laboratory, Govt. of NCT, New Delhi Former Director (I/C), Central Forensic Science Laboratory, Bhopal
Specialization	Forensic Chemical Sciences
Research Area	Chemistry and Toxicology
Publications	65
Book(s)	-
Book Chapter(s)	-
Project	2 (funded by Ministry of Home Affairs, Govt. of India)
Award	fellowship of Indian Medico Legal Association of India Received Appreciations letters & Honorariums regularly from Director, CFSLs and Chief Forensic Scientist, DFSS, MHA, Govt. of India, New Delhi for outstanding and extraordinary works as mentioned above. Special recognition and appreciation was received in person for proving the technical inputs to the team of judges from Hon’ble High Courts of Delhi, Punjab and Haryana for the making the draft rules

	<p>under IT Act-2001 for the digital evidence on dated 05.12.2016.</p> <p>Special recognition and appreciation was received in person from the members of Guwahati High Court PIL Committee for providing suggestions towards the improvement in functioning of State/Regional FSL, Assam, Zorhat on dated 25.01.2017.</p> <p>Recipient of prestigious Union Home Minister’s Award in the year 2007 for recognition of outstanding contribution in the field of Forensic Chemistry.</p> <p>Honoured as Chief Guest / Guest of Honour in the seminars on various topics of Forensic Sciences conducted by Maharshi Dayanand University (MDU) Rohtak, Delhi University, Punjabi University, Patiala, Galgotia University, Noida, Kurukshetra University, Kurushetra</p> <p>Lifetime Achievement Award-2018 by Association of Forensic Science Society in a International Conference on Advances in Forensic DNA Technology (ICFDT-2018) organized by APJ Abdul Kalam Institute of Forensic Science Bundelkhand University, Jhansi.</p> <p>“Best Forensic Expert Award in Toxicology & Chemistry Division” in the International Forensic Science & Criminal Investigation Summit& Awards 2020in association with Legal Desire Media & Insights.</p>
Professional Memberships	<p>Indian Science Congress, Kolkata</p> <p>Indian Society of Toxicology, Cochin, India</p> <p>Member of consortium of education under Union Grant Commission</p>

<p>Up-gradation / Establishment of new Forensic Laboratories</p>	<ul style="list-style-type: none"> (i) Up-gradation of Toxicological Division in CFSL Hyderabad. (i) Project entitled “Establishment of Hi-Tech Central Forensic Institute, MHA, GOI at Bhopal” was undertaken in the 11th Five Year Plan (2007-2012) and an initial facility of administrative office and Document, Biology, Computer Forensic Divisions were established in a rented premises and the same project was carried forward to XII Five Year Plan (2012-2017). (ii) Up-gradation of Forensic Science Laboratory, Govt. of NCT of Delhi specially the DNA, Chemistry, Ballistics, Document and Toxicology Division. (iii) Establishment of new mobile forensic units for quick visit to scene of crime for its scientific examination. (iv) Establishment of Regional Forensic Science Laboratory, Govt. of NCT of Delhi at Chanakyapuri for speedy disposal of crime cases. (v) Establishment of a new Forensic Science laboratory headquarters at Mangalgi, Guntur, Andhra Pradesh after the bifurcation of Andhra Pradesh. (vi) Also established new regional lab at Anantpur (A.P.).
<p>Any Other Relevant Information</p>	<p>Also rendered services at Central Revenue Control Laboratory (CBIC, Min. of Finance, Govt. of India), Food Research and Standardization Laboratory (DGHS, Govt. of India). 7 Ph.D. supervised and Co-supervised.</p>

Faculty Profile

NFSU, GOA Campus



Email: saroj.babar_goa@nfsu.ac.in

Name	Dr. Saroj Prasad Babar
Designation	Assistant Professor
Qualification	M.Sc., PhD
Experience	4 years of teaching experience as Assistant Professor
Specialization	Biotechnology
Research Area	Cancer Cell Biology, Protein Biochemistry
Publications	2
Book(s)	NA
Book Chapter(s)	NA
Award	<ul style="list-style-type: none">• Received fellowship for five years (2009-2014) from IITB-Monash research academy during PhD.• Secured rank 0028/0848 in NET (lectureship) in life sciences during 2012.• Secured rank 26 in GATE 2008 with a percentile of 99.77• Selected for Novartis International Biotechnology Leadership camp organized in Hong Kong (October 24-27, 2008).• Awarded a scholarship of USD 500 by Adobe Systems and Institute of International Education during the year 2004 to support degree program in engineering, mathematics, science or education.
Professional Memberships	NA
Any other relevant Information, if any, mention here accordingly	

List of publications

1. Bhattacharya A, Dhaked HPS, **Yadav S**, Dantu SC, Kumar A, Panda D (2016) Mutation of the Arg191 in FtsZ impairs cytokinetic abscission of *Bacillus subtilis* cells. **Biochemistry** 55: 5754-5763. Impact factor: 3.16
2. **Yadav S**, Verma PJ, Panda D (2014) C-terminal region of MAP7 domain containing protein 3 (MAP7D3) promotes microtubule polymerization by binding at the C-terminal tail of tubulin. **PLoS One** 9:e99539. Impact factor: 3.28

Faculty Profile

NFSU, GOA Campus



Email:
suryakant.patil_goa@nfsu.ac.in

Name	Dr. Suryakant A. Patil
Designation	Assistant Professor
Qualification	M.Sc. Ph.D.
Experience	5 Months
Specialization	Chemistry (Analytical Chemistry)
Research Area	Analytical Chemistry, Adsorption, Environmental Science, Separation Science, Forensic Chemistry
Publications	15
Book(s)	-
Book Chapter(s)	-
Award	Junior research fellowship (JRF)
Professional Memberships	Association of Separation Scientists and Technologists (ASSET), BARC, Mumbai
Any other relevant Information, if any, mention here accordingly	https://scholar.google.co.in/citations?user=rcDIqbMAAAAJ&hl=en https://www.researchgate.net/profile/Suryakant-Patil https://www.scopus.com/authid/detail.uri?authorId=55857870700  https://orcid.org/0000-0003-4237-6551

List of Publications

- Suryakant A. Patil**, Pramod D. Kumbhar, Bhushan S. Satvekar, Namdev S. Harale, Sagar C. Bhise, Sandip K. Patil, Ashish S. Sartape, Sanjay S. Kolekar, Mansing A. Anuse, Adsorption of toxic crystal violet dye from aqueous solution by using waste sugarcane leaf based activated carbon: isotherm, kinetic and thermodynamic study, **Journal of the Iranian Chemical Society**, 2022 (IF-2.019). (Accepted)
- Prachi P. Bote, Siddharth R. Vaze, Chandrasekhar S. Patil, **Suryakant A. Patil**, Govind B.Kolekar, Mahaveer D. Kurkuri, Anil H. Gore, Reutilization of carbon from exhausted water filter cartridges (C-EWFC) for decontamination of water: An innovative waste management approach, **Environmental Technology & Innovation**, 2021, 24, 102047, <https://doi.org/10.1016/j.eti.2021.102047>, (IF-5. 263).
- Suryakant A. Patil**, Umesh P. Suryawanshi, Namdev S. Harale, Sandip K. Patil, Madagonda M. Vadiyar, Meitram N. Luwang, Mansing A. Anuse, Jin H. Kim & Sanjay S. Kolekar, Adsorption of toxic Pb(II) on activated carbon derived from agriculture waste

- (Mahogany fruit shell): isotherm, kinetic and thermodynamic study, **International Journal of Environmental Analytical Chemistry**, 2020, <https://doi.org/10.1080/03067319.2020.1849648> (IF-2.826).
4. **Suryakant A. Patil**, Pramod D. Kumbhar, Sandip K. Patil, Madagonda M. Vadiyar, Umesh P. Suryawanshi, Chitra L. Jambhale, Mansing A. Anuse, Jin H. Kim & Sanjay S. Kolekar, Dynamic adsorption of toxic indigo carmine dye on bio-inspired synthesised Fe₃O₄ nanoparticles: kinetic and thermodynamic study, **International Journal of Environmental Analytical Chemistry**, 2020, <https://doi.org/10.1080/03067319.2020.1734197>. (IF-2.826).
 5. **Suryakant A. Patil**, Sandip K. Patil, Ashish S. Sartape, Sagar C. Bhise, Madagonda M. Vadiyar, Mansing A. Anuse, Sanjay S. Kolekar, A *Pongamia pinnata* pods based activated carbon as an efficient scavenger for adsorption of toxic Co(II): Kinetic and thermodynamic study, **Separation Science and Technology**, 2020, 55, (16) 2904–2918, <https://doi.org/10.1080/01496395.2019.1659366>. (IF-2.475).
 6. Sandip K Patil, Sagar C Bhise, Deepak V Awale, Madagonda M Vadiyar, **Suryakant A Patil**, Dattatray B. Gunjal, Govind B. Kolekar, Uma V. Ghorpade, Jin H. Kim, Sanjay S. Kolekar “Seems Bad Turns Good” – traces of precursor in dicationic ionic liquid lead to analytical application, **Research on Chemical Intermediates**, 2018, 44, 6267-6282, <https://doi.org/10.1007/s11164-018-3489-7>. (IF-2.914).
 7. Sandip K Patil, **Suryakant A Patil**, Madagonda M Vadiyar, Deepak V Awale, Ashish S Sartape, Laxman S Walekar, Govind B Kolekar, Uma V Ghorpade, Jin H Kim, Sanjay S Kolekar, Tailor-made dicationic ionic liquid as a fluorescent sensor for detection of hydroquinone and catechol, **Journal of Molecular Liquids**, 2017, 244, 39-45, <https://doi.org/10.1016/j.molliq.2017.08.119>. (IF-6.165)
 8. Sandip K Patil, Deepak V Awale, Madagonda M Vadiyar, **Suryakant A Patil**, Sagar C Bhise, Sanjay S Kolekar Simple protic ionic liquid [Et₃NH][HSO₄] as a proficient catalyst for facile synthesis of biscoumarins, **Research on Chemical Intermediates**, 2017, 43 (10), 5365-5376, <https://doi.org/10.1007/s11164-017-2932-5>. (IF-2.914)
 9. Sandip K Patil, Madagonda M Vadiyar, Sagar C Bhise, **Suryakant A Patil**, Deepak V Awale, Uma V Ghorpade, Jin H Kim, Anil V Ghule, Sanjay S Kolekar, Hydroxy functionalized ionic liquids as promising electrolytes for supercapacitor study of α-Fe₂O₃ thin films, **Journal of Materials Science: Materials in Electronics**, 2017, 28 (16), 11738-11748, <https://doi.org/10.1007/s10854-017-6978-3>. (IF-2.478)
 10. Sandip K Patil, Deepak V Awale, Madagonda M Vadiyar, **Suryakant A Patil**, Sagar C Bhise, Anil H Gore, Govind B Kolekar, Jin H Kim, Sanjay S Kolekar, Amide Functionalized Ionic Liquid as Facile Fluorescent Probe for Detection of Nitrophenolic Compounds, **ChemistrySelect**, 2017, 2 (14), 4124-4130, <https://doi.org/10.1002/slct.201700611>. (IF-2.109)
 11. Gurupad D Kore, **Suryakant A Patil**, Mansing A Anuse, Sanjay S Kolekar An extractive studies on behavior of thorium (IV) from malonate media by 2-octylaminopyridine: a green approach, **Journal of Radioanalytical and Nuclear Chemistry**, 2016, 310 (1), 329-337, <https://doi.org/10.1080/19443994.2013.839404>, (IF-1.371)
 12. Ashish S Sartape, **Suryakant A Patil**, Sandip K Patil, Suresh T Salunkhe, Sanjay S Kolekar Mahogany fruit shell: a new low-cost adsorbent for removal of methylene blue dye from aqueous solutions, **Desalination and Water Treatment**, 2015, 53 (1), 99-108, <https://doi.org/10.1080/19443994.2013.839404>, (IF-0.854)

13. Madagonda M Vadiyar, Sagar C Bhise, Sandip K Patil, **Suryakant A Patil**, Dattatray K. Pawar, Anil V. Ghule Pramod S. Patil, Sanjay S. Kolekar, Mechanochemical Growth of a Porous ZnFe₂O₄ Nano-flake Thin Film as an Electrode for Supercapacitor Application, **RSC Advances**, **2015**, 5, 45935-45942, <https://doi.org/10.1039/C5RA07588B>. **(IF-3.361)**
14. G. D. Kore, **Suryakant A Patil**, S. B. Zanje, A. V. Ghule, S. S. Kolekar, M. A. Anuse, An extractive studies on behavior of Th (IV) from malonate media by 2-octyl amino pyridine: a green approach, **Proceedings of the twelfth DAE-BRNS national symposium on nuclear and radiochemistry**, **2015**, **46 (33)**, 46089617.
15. Uma Ghorpade, Mahesh Suryawanshi, Seung Wook Shin, Kishor V. Gurav, **Suryakant A Patil**, Bharati S Pawar, M. G. Gang, Sanjay Kolekar, Jin Hyeok Kim, Synthesis Of Metastable Wurtzite CZTS NCs And Their Transformation Into Kesterite CZTS Absorber Layer For Solar Cell Application, **The Korean Society for New and Renewable Energy, AFORE**, **2014**, 296.

Faculty Profile

NFSU, GOA Campus

Name	Dr. Panem Charanarur
Designation	Assistant Professor
Qualification	B.Tech, M.Tech, Ph.D
Experience	3-Years
Specialization	Data Communication, MIMO, Software Defined Radio(SDR), Network on Chip(NoC), Cloud Computing, Artificial Intelligence, Cyber Security, Digital Forensics.
Research Area	Data Communication, MIMO, Network on Chip(NoC), Cloud Computing, Artificial Intelligence, Machine Learning, IoT Security, Cyber Security, Digital Forensics and Information Security, 5G & 6G Networks and Security.
Publications	Attached
Book(s)	01
Book Chapter(s)	02
Award	<ol style="list-style-type: none">1. Dr. Sarvepalli Radhakrishnan Best Faculty Award 2021 in Electronics Engineering, from CPACE (Center for Professional Advancement) ,India2. Ghiasuddin Babukhan Charitable Trust (GBK Trust) Merit Scholarship for B.Tech and M.Tech (2008-2013).3. Selected as a Fellowship for Ph.D from Ministry of Electronics and Information Technology, Government of India, "Visvesvaraya PhD Scheme".(2015-2020)4. Selected best Volunteered as an Ambassador IEEE Xstream 13.0, 2019.
Professional Memberships	IEEE.India-93055123 IAENG, Hongkong-135344 CSTA USA- 2931759 IACSIT-80347900



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	ISOC-424731 SCIEI-20140612001
Any other relevant information, if any, mention here accordingly	Patent:5 (Attached) Copyright:01 (Attached) Workshops Attended:12 (Attached) Invited session Chair of International Conferences:07(Attached)

(List of publication may be attached with this file)

Journal Publication:

- Panem Charanarur**, Rajendra S. Gad, Brajesh Kumar Kaushik, “Vertical Traversal Approach Towards TSV’s Optimization Over Multi-layer Network on Chip (NoC)”.Microelectronics Journal (Elsevier), Vol.116. Issue.10. pp.1-13. 2021.
- Panem Charanarur**, Gundu, S.R.C.A. & Timmapuram A, RS Gad “Emerging computational challenges in cloud computing and RTEAH algorithm based solution”. Journal of Ambient Intelligence and Humanized Computing(Springer Nature), Vol.12, Issue.7, 14th, July-2021.
- Panem Charanarur**, Udaysingh V. Rane, Rajendra S. Gad, “ Design of Network on Chip (NoC) Computing Node for Mesh Topology using Soft-core NIOS-II Processor ”, IOP: Journal of Physics(IOP), Vol. 1921(012075), pp.1-10, 2021.
- Panem Charanarur**, Girish Abhyankar, Rajendra Gad, Deepak Chodankar and Gourish Naik, “Gaussian Vortex Beam modeling for multiplexing in data communication using OAM”, IOP: Journal of Physics, Vol. 1921(012054), pp.1-10, 2021.
- Charanarur Panem**, Vinaya Gad, Rajendra S. Gad “Sensor’s Data Transmission over QAM Using LDPC over MIMO Channel to enhance the Channel capacity: Performance analysis over RMSE and BER”, Materials Science and Engineering(IOP),561, 2019.
- Panem Charanarur**, Deepak Choudankar, Rajendra S. Gad “PCA Data Reduction for MIMO based Channel, capacity Enhancement Using 16-OAM Modulation”, Universal Journal of Electrical and Electronic Engineering, Vol. 7(2), pp. 118 – 126,2020.
- Panem Charanarur**, Gundu, S.R.C.A. & Timmapuram, A. “The Dynamic Computational Model and the New Era of Cloud Computation Using Microsoft Azure. Springer nature computer science(SCI), Springer, 1, 264, 2020.
- Panem Charanarur**, Vinaya Gad, Rajendra S. Gad “Sensor’s Data Transmission over BPSK Using LDPC (Min-Sum) Error Corrections over MIMO Channel: Analysis over RMSE and BER”, Material Today: Proceeding(Elsevier), 2020.
- Panem Charanarur**, Gundu, S.R.C.A. & Timmapuram, A. “Intelligence Using Automata-Based Nature’s Digital Philosophy”. Springer nature computer science, Springer. 1, 189, 2020.

10. **Panem Charanarur**, Gundu, S.R., C.A. & Timmapuram, A. "Hybrid IT and Multi-Cloud an Emerging Trend and Improved Performance in Cloud Computing". Springer nature computer science, Springer, 1, 256, 2020.
11. **Panem Charanarur**, B. Samarpana Rao, M. Nagendra Vara Prasad, M.V. Lakshmaiah, Y. Munikrishna Reddy," Partial oxygen effect on the optical behavior of AlCu2O thin films using the reactive sputtered method". Materials Today: Proceedings.Vol.27. P1. 2019.
12. **Panem Charanarur**, Gundu, S.R., C.A. & Timmapuram, A. "Robotic Technology-Based Cloud Computing for Improved Services". Springer nature computer science, Springer, 1, 190, 2020.
13. **Panem charanarur**, Gundu, S.R., & Thimmapuram, A. "Real-Time Cloud-Based Load Balance Algorithms and an Analysis". Springer nature computer science, Springer, 1, 187, 2020.
14. **Panem Charanarur**, Gundu, S.R., Manjunath L, " ARSM hybrid hash algorithm based optimal solution approach and implementation for improved cloud security defensive mechanism ", International Journal of Advanced Scientific Technologies in Engineering and Management Sciences, Vol.7, Issue.2, pp.06-14, 2021.
15. **Panem Charanarur**, Gundu, " A Scientific Study on Nava Padma Koulinee Yoga Sadhana ", International Journal of Research Publication and Reviews, Vol.2, Issue.12, 2021.
16. **Panem Charanarur**, Gundu, S.R, Manjunath L " Amalgamated Cloud AI : Transpiring Revolution in broadband cellular network standards ", International Journal of Advanced Trends in Engineering, Science and Technology, Vol.6, Issue.4, pp.11-15, 2021.
17. **Panem Charanarur**, Gundu, S.R., & Thimmapuram, A. " Proposal of DPPM based IOT-Cloud convergent Monitoring system for focused seriation & tracing of 2019-nCoV", International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS), Vol.6, Issue.5,pp.1-6, 2020.
18. **Panem Charanarur**, D.Kavya"Programmed Control Scheme For Air Contamination And Hazards Revelation In Vehicles", International Journal of Advanced Scientific Technologies in Engineering and Management Sciences (IJASTEMS) , Vol.1, Issue.6, pp.29-34, 2015.
19. **Panem Charanarur** "Flexible and A Low Power Multi-Modulus Frequency Divider", International Journal of Emerging Trends in Electrical and Electronics, Vol.10, Issue.5, pp.1-5, 2014.
20. **Panem Charanarur**, ChepuriSatish "An Efficient High-Speed Wallace Tree Multiplier", International Journal of Emerging Trends in Electrical and Electronics, Vol.10, Issue.4, pp.38-42, 2014.
21. **Panem Charanarur**,M.Manjula"An Efficient Carry Select Adder", International Journal of Innovative Research in Science and Engineering (IJIRSE), Vol.2, Issue.5, pp.338-343, 2014.
22. **Panem Charanarur**,M.SaiChandraSekhar "Data Security By Using X-BEE ", International Journal of Emerging Trends in Electrical and Electronics vol.10, Issue.2, pp.67-71, 2014.
23. **Panem Charanarur**, M.SaiChandraSekhar "Secure Data transmission Using Blowfish Algorithm", International Journal of Innovative Research in Science and Engineering (IJIRSE), Vol.2, Issue. 5,pp. 305-311, 2014.
24. **Panem Charanarur**, K.Venkateswarlu "Hard Disk Duplication", International Journal of Emerging Trends in Electrical and Electronics, Vol.4, Issue.2, 2013.

Conference:

1. **Panem Charanarur**, GS Rao, "Observed Issues In Cloud-Based Web Commerce Adoption For The Financial Transactions In Hyderabad", First International Two-Day Conference on Advanced Research and Development in Computer Science and Information technology (ARDCSIT – 2021), July 13-14, 2021. (IMCMS)
2. **Panem Charanarur**, Vinaya Gad, Rajendra S. Gad, " MIMO Channel Capacity Enhancement Using PCA Data Reduction Methods with QPSK Modulation ", IEEE International Conference

on Distributed Computing, VLSI, Electrical Circuits and Robotics (2019 DISCOVER), On August 11-12, 2019. Manipal Institute of Technology, Manipal, Karnataka, India. (IEEE)(Scopus).

3. **Panem Charanarur**, Udaysingh V. Rane, Vinaya R. Gad, Rajendra S. Gad*, G. M. Naik, "3D Mesh 2,4,8 layer NoC Evaluation With Virtual Channel Link Capacity Enhancement ", 2018 IEEE International Conference on Current trends towards Converging Technologies (ICCTCT 2018), Coimbatore on 1 – 3 March 2018. (IEEE) (Scopus).
4. **Panem Charanarur** , Udaysingh V. Rane, Vinaya R. Gad, Rajendra S. Gad*, G. M. Naik, "3D & 4D 2 Layer Mesh NoC Evaluation for Fault-Tolerant over Combinations of Vertical Channel", 2018 IEEE International Conference on Current trends towards Converging Technologies (ICCTCT 2018), Coimbatore on 1 – 3 March 2018. (IEEE) (Scopus).
5. **Panem Charanarur**, Udaysingh V. Rane, Vinaya R. Gad, Kovendan AKP, D. Sridharan, Rajendra S. Gad, Nourish M. Naik, "Performance Analysis Of 16x16, 32x32, 64x64 2-D Mesh Topologies For Network On-Chip", IEEE International Conference WiSPNET-2017, SSN Engineering College, Chennai, on March 22 to 24th-2017. (IEEE) (Scopus).
6. **Panem Charanarur**, SK Sheeba Kowsar, "Automobiles Movement Estimation on Road: The Usage of MATLAB " Proceedings of IEEE International Conference ICEEOT- 2016 organized by DMIEC, Chennai, India, March 3-5 2016(978-1-4673- 9939-5/16/\$31.00 ©2016 IEEE). (IEEE) (Scopus)
7. **Panem Charanarur**, A. A. Gaonkar, "Sensors Data Fusion Architecture Over MIMO: Case Study of Quadcopter" Proceedings of IEEE International Conference ICEEOT- 2016 organized by DMIEC, Chennai, India, March 3-5 2016(978-1-4673-9939-5/16/\$31.00 ©2016 IEEE). (IEEE) (Scopus)
8. **Panem Charanarur**, Rajendra S. Gad, "3D & 4D 2 Layer Mesh NoC Evaluation for Fault-Tolerant over Combinations of Vertical Channel" ,11th Annual Symposium on VLSI and Embedded System VSI-2018, Goa University, Goa, March 22-23. 2018.
9. **Panem Charanarur**, Udaysingh V. Rane, Rajendra S. Gad, "Network On-Chip Performance Analysis Of 2-D Mesh, 3D Mesh Topologies For CBR and FTP applications", VSI-2017, Goa, on April 28th -2017.
10. **Panem Charanarur**, A.Dastagiriah, "A Novel Architecture And Low Power 32/33/47/48/64/65/79/80 Multi-Modulus Frequency Divider" Proceedings of International Conference ICRTEC2014 Organized by Dr.YSR Institute of Engineering and Technology, AP, India, June 2014.
11. **Panem Charanarur**, BSai Kumar, "Smart city with the connected environment: Intelligent and connected city" Proceedings of International Conference CCEEDS2015 Organized by SNEC, Vijayawada, India, March 2015.
12. **Panem Charanarur**, DKChawriya, "Air pollution Effect on Human Being and Its Control and Measures and Techniques" Proceedings of International Conference CCEEDS2015 Organized by SNEC, Vijayawada, India, March 2015.
13. **Panem Charanarur**, L.Bhargava Reddy - "Stellar Communication" 5thNational Level Student Symposium on ATM-12, AITSRajampet, YSR Kadapa, A.P. On 15th March 2012.

Book Publication:

1. **Panem Charanarur**, GS Rao, Pratik Patel"Cloud computing and its Service Oriented Mechanism", Akinik, AkiNik Publications, January-2022.

Book Chapters:

1. **Panem Charanarur**, Vinaya Gad, Rajendra S. Gad, “Polynomials in Error Detection and Correction in Data Communication System”, Coding Theory, Intech Open Publishers, November 6th, 2019, DOI: 10.5772/intechopen.86160.
2. **Panem Charanarur**, GS Rao, “High-performance computing-based scalable 'Cloud forensics-as-a-Service' readiness framework factors - A review”, Cybersecurity and Network Security: Advances, Applications, and Emerging Trends, Willey Publication, December-2021.

Patent:

1. **Charanarur Panem**, “Internet of things based EBOLA virus detection among masses”. Application Number:202141022887, Filed on 22/05/2021, Published in Indian patent Journal, No. 24/2021 on 11/06/2021.
2. **Charanarur Panem**, “An Artificial Intelligence enabled Cryptography based financial Analytical tool”, Application Number:202111036657, Filed on 13/08/2021, Published in Indian patent Journal, No. 36/2021, Part 1, on 03/09/2021.
3. **Charanarur Panem**, “Method for automating Smart Green House using IoT”. Application Number: 2021104408, IP Australia , Filed on 21/07/2021.
4. **Charanarur Panem**, “Method for Improving the Crop Health using IoT in Smart Agriculture Farming”. Application Number: 2021104431, IP Australia , Filed on 21/07/2021.
5. **Charanarur Panem**, “A Method And System For Improving Wireless Sensor Network Using Fault Mitigation Technology”, Application Number:202111040410, IP India, Filed on 06/09/2021.

Copyright:

1. **Charanarur Panem**, “Virtual Reality Learning and Amusement”. Application under review, Filed on 15/11/2021, Canadian Intellectual Property Office, Canada.

Work Shops:

1. One Week AICTE-ATAL FDP on “Artificial Intelligence Enabled Sensors and Networks for 5G Wireless Communications”, Mahendra Engineering College, Tamilnadu, India, from December 06 to 10, 2021. (AICTE)
2. One Week AICTE-ATAL FDP on “Modulation, Coding and Multiple Access Techniques for Wireless Communication and Storage Systems”, IIT Goa, Goa November 15 to 19, 2021. (AICTE)
3. One Week AICTE-ATAL FDP on " Internet of Things", SreeVidyanikethan Engineering College, Tirupati, India, from October 25 to 29, 2021. (AICTE)
4. Three Week AICTE STTP phase-I,II,III Short Term Training Programme on " VLSI DESIGN AND VERIFICATION", AITS Rajampet, Andrapradesh. (AICTE)
5. One Week AICTE-ATAL FDP on " Towards 5G Communications & Beyond with IoT, Machine Learning", Goa Engineering College, Goa, India, from November 23 to 27, 2020. (AICTE)
6. One Week AICTE-ATAL FDP on “GIS & Remote Sensing", Goa University, India, from October 12 to 16, 2020. (AICTE)
7. One Week STTP/FDP on "RECENT TRENDS IN INDUSTRY 4.0 TECHNOLOGIES", Department of Computer Engineering, Don Bosco College of Engineering, Fatorda, Goa, India, from July 27 to 31 July, 2020. (STTP)

8. One Week FDP on "RECENT ADVANCES IN RF AND MICROELECTRONICS", Department of Computer Engineering, Don Bosco College of Engineering, Fatorda, Goa, India, from 31 August to 4 September, 2020. (STTP)
9. ACM Summer School on Data Sciences to be held at Goa University from 4th - 16th June 2018.(ACM)
10. Two Day workshop on "Image Processing & Current Trends" at IETE, Hyderabad A.P. 19-20th February 2011. (IETE)
11. Two Day workshop on "VLSI Circuit Design Using Cadence Design Tools" at Audhisankara College Of Engineering & Technology, Gudur, SPSR Nellore, A.P, On 09-10th May 2013.
12. Two Day workshop on " Visvesvaraya PhD Scheme Paper Presentations a Review Meetings "on 13 a 14 October, 2016 at Indian Institute of Technology Bombay (IITB).

Invited session Chair of International Conferences

1. Session Chair Person for "Third International Conference on Advances in Electrical and Computer Technologies 2021 (ICAECT 2021)", Coimbatore, Tamil Nadu, India, during 29 – 30, October 2021.
2. Session Chair Person for "Fourth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2021)", Velalar College of Engineering and Technology, Erode, Tamil Nadu, India, during 15 – 17, September 2021.
3. Session Chair Person for "**Second International Conference on Advances in Physical Sciences and Materials 2021 (ICAPSM 2021)**", Coimbatore, Tamilnadu, India during August 17 – 18, 2021.
4. Session Chair Person for "International Conference on **Materials Science and Manufacturing Technology (ICMSMT 2021)**", Coimbatore, Tamilnadu, India during April 15 – 16, 2021.
5. Session Chair Person for "International Conference on Advances in Smart Sensors, Signal Processing and Communication Technology (ICASSCT 2021)", at Goa University, Goa, India during March 19 – 20, 2021.
6. Session Chair Person for "IEEE International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2021)", at Shri Shankarachariya Technical Campus (SSTC), Bhilai, Chhattisgarh, India during February 19 – 20, 2021.
7. Session Chair Person for "IEEE International Conference of Electrical, Electronics, Signals, Communication and Optimization (EESCO)-2015", Vignan Institute of information Technology (VIIT) Duvvada, Visakhapatnam.

Faculty Profile

NFSU, GOA Campus



Email:

(List of publication may be attached with this file)

Name	Mr. Kashinath Chandelkar
Designation	Teaching and Research Assistant
Qualification	PhD (Computer Science & Engineering) Thesis submitted
Experience	4 years
Specialization	Data Mining, DBMS
Research Area	Digital forensics, cloud computing
Publications	Enclosed as an attachment
Book(s)	NIL
Book Chapter(s)	02
Award	NIL
Professional Memberships	NIL
Any other relevant Information, if any, mention here accordingly	1. Completed 3 years of NCC training (Senior Division- Army Wing) under Goa Karnataka regiment. Successfully qualified NCC B and C certifications. Participated at state and national level competitions during the tenure. 2. Qualified GATE in Information Technology (2006)

email Id: kashinath.chandelkar_goa@nfsu.ac.in

Publications in Peer Reviewed Journal during PhD tenure

1. Kashinath Chandelkar and Dr Piyush Gupta. “ *An India towards Global Ranking standards: A move towards data Curation*” International Journal of Innovative Technology and Exploring Engineering (IJITEE) , *Scopus Indexed Journal*, Vol. 9, Issue.3, PP. 504-509, Jan. 2020.
2. Kashinath Chandelkar, “*Prototyping Algorithm for performance Enhancement for CBIR using nvidia Cuda 7.5*” International Journal of Computer Science & Engineering (IJCSE), Vol. 5, Issue.3, PP.37-43, 2016.

3. Kashinath Chandelkar and Dr. Piyush Gupta, “ *Innovative Information Retrieval framework on dedicated cloud using MapReduce & Hummingbird primitives*” International Journal of Scientific and Engineering Research (IJSER), Vol. 5, Issue 9, PP. 668-671, 2014.
4. Kashinath Chandelkar and Dr. Piyush Gupta, “*Query Processing and Optimization in the Distributed Architecture using NoSql: a Banking System*” International Journal of Advanced Computer Engineering and Communication Technology (IJACECT) , Vol.3, Issue.4, PP.25-28, 2014.
5. Kashinath Chandelkar and Dr. Piyush Gupta, “*Analyzing high Performance cloud Computing: A perspective Approach*”, International journal of advance Research in Computer Science & Software Engineering, Vol.3, Issue. 4, PP. 986-990, 2013.
6. Kashinath Chandelkar and Dr. Piyush Gupta, “*Intelligent Network Practices and Innovative Networking Solution for Enterprises*”, International Journal of Emerging Research in Management and Technology, Vol.1, issue.2, PP. 41-45, 2012.

Publications/Presentation in International Conferences/Symposium

1. Mr. Kashinath Chandelkar, Dr. Piyush Gupta, Ms Heeral Gupta, “Technology Enhanced Learning: A simulated cloud based initiative for smart university” **IEEE Explorer, Scopus Publication**, IconDSC, Christ University Bangalore, 1-2 march 2019.
2. Mr. Kashinath Chandelkar and Dr. Piyush Gupta, “Cloud Computing: Migrating Business to the next Generation”, **ACM International Conference, IRIS 2015, Bits Pilani Goa Campus, 5-7 February 2015.**
3. Kashinath Chandelkar and Dr. Piyush Gupta, “The Need and Impact of Hummingbird Algorithm on Cloud based Content Management System”, **International Conference by DST and Microsoft at LNMIIT Jaipur, 13 February 2014.**
4. Kashinath Chandelkar and Dr. Piyush Gupta, “Application Compatibility factors for cloud migration”, **IEEE International Conference** at ITM Gurgaon, 21-22 February 2014.

Book chapter

Book Name	Chapter details	Publisher
A Compendium of Swarm Intelligence: Achieving Resource Optimization for the Internet of Things	Swarm Intelligence for Data Management and Mining Technologies to Manage and Analyze Data in IoT	Wiley Publisher, USA

Chapter Review	Swarm Intelligence: Evolutionary Algorithms, Methods & Applications	Journal of data Mining in Genomics & Proteomics (Longdum Publishing SL)
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Faculty Profile

NFSU, GOA Campus



Name	Ms. Fernandes Glorita Savia
Designation	Teaching and Research Assistant
Qualification	B.Sc. Biotechnology, M.Sc. Forensic Science Ph.D. pursuing
Experience	4.5 years teaching experience (2014-19) Assistant Professor – PG Department of Forensic Science, JAIN (Deemed to-be University), Bengaluru, Karnataka. 1.9 years industry experience (2010-11 & 2013-14) Project Assistant I, National Institute of Oceanography (CSIR-NIO), Dona Paula, Goa.
Specialization	Forensic Chemistry, Toxicology and Pharmacology
Research Area	Fire and Arson Investigation Applied Forensic Chemistry Forensic Chemistry and Toxicology Criminology and Forensic Science
Publications	06
Book(s)	Nil
Book Chapter(s)	Nil
Award	UGC-NET/JRF Forensic Science
Professional Memberships	1. The Indian Science Congress Association – Life member 2. Fire & Security Association of India – Individual member 3. Karnataka Association of Medico-Legal Experts – Life member

	4. Indian Criminology and Forensic Science Association – Life member
Any other relevant Information, if any, mention here accordingly	

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(List of publication may be attached with this file)

1. **“A Study to Ascertain the Identity of Commercially Available Timbers Sold in South Karnataka through their Diagnostic and Anatomical Features”** was published in Research Journal for Forensic Science, International Science Community Association; Vol. 4(5), 6-15, May (2016). E-ISSN 2321–1792. **(IF 1.69)**
2. **“Food Forensics: Detection of Hidden Toxins Present in Common Household Consumables”** was published in Journal of Forensic Sciences & Criminal Investigation, Juniper Publishers; Vol. 10(4), September (2018). ISSN 2476-1311. DOI: 10.19080/JFSCI.2018.10.555791. **(IF 1.125)**
3. **“Standardization of Marquis Reagent for the Detection of Aspirin”** was published in EC Pharmacology and Toxicology, E-Cronicon Open Access; Vol. 7(2), 92-102, February (2019).
4. **“A Review of Trends and Crime Patterns of Arson Offences in India: 2009 – 2018”** was published in Indian Journal of Criminology; Vol. 48(10), 71–83, August (2020). ISSN 0974-7249.
5. **“A Review Study on Types of Fire Accidents and their Management in India: 2014 to 2018”** was published in Annals of the Romanian Society for Cell Biology; Vol. 25(4), 10013–10020, April (2021). ISSN 1583-6258. **(IF 0.90)**
6. **“Employee Perspectives on Fire Safety at Workplaces in India: An Empirical Study”** was published in Asian Journal of Research in Social Sciences and Humanities; Vol. 11(8), August (2021). ISSN 2249-7315. DOI: 10.5958/2249-7315.2021.00029.0. **(IF 0.676)**

Faculty Profile

NFSU, GOA Campus



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Name	Mr. Abhimanyu Harshey
Designation	Teaching and Research Assistant
Qualification	M.Sc. Forensic Science
Experience	Ph.D. (Pursing)
Specialization	Forensic Physical Sciences
Research Area	Forensic Physics and Ballistics
Publications	15
Book(s)	-
Book Chapter(s)	1
Award	DST- INSPIRE Fellowship (Provisional Selection)-2017 UGC-JRF
Professional Memberships	Life Member of Indian Science Congress
Any other relevant Information, if any, mention here accordingly	--

(List of publication may be attached with this file)

Publications in Journals

1. Das T, Ammal A, **Harshey A**, Mishra V, Srivastava A (2021)Vibrational spectroscopic approaches for semen analysis in forensic investigation: State of the art and way forward. Microchemical Journal 106810 (171).
2. Singh PP, Srivastava AK, Upadhyay SK, Singh A, Upadhyay S, Kumar P, Rai V, Shrivastava P, Chaubey G, Serosurveillance Consortium BHU (2021) The association of ABO blood group with the

asymptomatic COVID-19 cases in India. *Transfusion and Apheresis Science*. (member of Serosurveillance Consortium BHU)

3. Das T, **Harshey A**, Srivastava A, Nigam K, Yadav V, Sharma K, Sharma A (2021) Analysis of the Ex-vivo transformation of Semen, Saliva and Urine as they dry out using ATR-FTIR spectroscopy and chemometric Approach. *Scientific Reports* 11:11855.
4. Srivastava A, **Harshey A**, Das T, Kumar A, Shrivastava P (2021) Impact of DNA evidence in Criminal Justice System: Indian legislative Perspectives. *Medicine, Science and the Law*. (A SAGE Publication).
5. Yadav VK , Das T, **Harshey A**, Yadav MM, Nigam K, Srivastava A (2021) A forensic approach to evaluate the effect of different matrices and extraction solvents for the identification of diesel residue in simulated arson by GC-MS. *Chromatographia* 84: 413–423. (A Springer Nature publication).
6. **Harshey A**, Srivastava A, Das T, Nigam K, Shrivastava R, Yadav VK (2021) Trends in Gunshot Residue detection by electrochemical methods for forensic purpose, *Journal of Analysis and Testing*. <https://doi.org/10.1007/s41664-020-00152-x>. (A Springer Nature publication)
7. Kumar A, Srivastava A, Das T, **Harshey A**, Saini VR, Kumar A, Alim M, Nigam K, Yadav VK (2020) Restoration of Obliterated stamped marks on aluminium surfaces by metallographic etching technique. *Oriental Journal of Chemistry*, 36(6):1212-1217.
8. Nigam K, Das T, **Harshey A**, Kumar A, Kapoor N, Yadav VK, Srivastava A (2021) Effectiveness of Talcum powder in decipherment of latent fingerprints on various substrates. *Asian Journal of Chemistry*, 33(1): 120-126.
9. Yadav VK, **Harshey A**, Das T, Nigam K, Sharma K, Srivastava A (2020) Effect of different matrices on the identification of ignitable liquid residue in post burn arson debris: A multi-derivative UV-Visible spectrophotometric approach. *Asian Journal of Chemistry*, 32(11): 2880-2886.
10. Das T, **Harshey A**, Nigam K, Yadav VK, Srivastava A (2020) Analytical approaches for bloodstain aging by vibrational spectroscopy: current trends and future perspectives. *Microchemical Journal*, 105278 (158). (An Elsevier publication)
11. Alim M, Negi KS, Abhyankar S, Tiwari N, **Harshey A**, Srivastava A (2020) Towards the investigation of the shooting incidents: evaluation of the fracture pattern on the polymethylmethacrylate sheet made by .22” and .177” caliber air rifle. *Heliyon* 6(5) e04088. (A Cell Press Publication)

12. **Harshey A**, Das T, Srivastava A (2020) Analytical contributions of lanthanide based metal-organic frame works as luminescent markers: Recent trends in gunshot residue analysis. *Microchemical Journal* (154)104597. (An Elsevier publication)
13. Tiwari N, **Harshey A**, Das T, Abhyankar S, Yadav VK, Nigam K, Anand VR, Srivastava A (2019) Evidential significance of multiple fracture patterns on the glass in Forensic Ballistics. *Egyptian Journal of Forensic Sciences* 9:22. (A Springer publication).
14. Abhyankar S, Srivastava A, Yadav VK, Nigam K and **Harshey A** (2018) Glass Fractures Made from Different Pellet Shapes- A Preliminary Study. *Journal of Forensic Sciences and Criminal Investigation* 8(3).
15. **Harshey A**, Srivastava A, Yadav VK, Nigam K, Kumar A and Das T (2017) Analysis of Glass Fracture Pattern Made by 4.5 mm (.177”) Caliber Air Rifle. *Egyptian Journal of Forensic Sciences* 7:20. (A Springer publication)
(This article is featured as 3rd most accessed article). (This article was referred by Hon’ble High Court of Allahabad in one of its judgment decided date on 01.06.2019).

Chapters in Edited Book

1. Srivastava A, **Harshey A**, Shrivastava P (2020) Legal aspects of forensic DNA typing. In: Shrivastava P et al. *Forensic DNA Typing: Principles, Applications and Advancements*, https://doi.org/10.1007/978-981-15-6655-4_31. Springer Singapore Pte. Ltd.

Faculty Profile NFSU_Goa Campus



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Name	Saurabh Patil
Designation	Teaching and Research Assistant (General Biology)
Qualification	Integrated M.Sc Life Sciences (National Institute of Science Education and Research (NISER), Bhubaneswar) PhD (pursuing at National Forensic Sciences University (NFSU), Gandhinagar)
Experience	Research experience: 2 years Industrial experience: 3 years
Specialization	Genetics
Research Area	Forensic Genetics
Publications	Saha S, Patil S, Singh U, Singh O, Singru PS. Sexual dimorphism in the hypophysiotropic tyrosine hydroxylase-positive neurons in the preoptic area of the teleost, <i>Clarias batrachus</i> . Biol Sex Differ. 2015;6:23. Published 2015 Nov 9. doi:10.1186/s13293-015-0042-x (Impact factor - 5.561)
Book(s)	-
Book Chapter(s)	-

Award	- CSIR JRF (2020) - INSPIRE fellowship (2010 - 2015)
Professional Memberships	-
Any other relevant Information, if any, mention here accordingly	-