



## SANDEEP KUMAR NAYAK, Ph.D.

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Associate Professor  
Department of Information Technology  
Satellite Centre Amethi,  
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### **Professional Qualification**

- **Doctor of Philosophy (PhD)** in the field of Software Engineering titled, “**A Framework for Reliable Requirement Specification -An Early Stage Defect Analysis Perspective**” from the Department of Information Technology, Babasaheb Bhimrao Ambedkar University, Lucknow (A Central University of India, Accredited with ‘A’ Grade by NAAC, NIRF Ranking - 55) Lucknow, Uttar Pradesh-India, in 2013.
- **Master of Computer Application (MCA)** with an aggregate of 69% from UP Technical University, Lucknow, Uttar Pradesh-India, in 2004.

### **Academic Qualifications**

- **B.Sc.** (Computer Science) from Lucknow University (UP Govt. State University) with an aggregate of 61% in 2000. (Lucknow, Uttar Pradesh-India)
- **Senior Secondary** (Science Discipline) from UP Board with an aggregate of 64% in 1996. (Lucknow, Uttar Pradesh-India)
- **Higher Secondary** (Science Discipline) from UP Board with an aggregate of 75% in 1994. (Lucknow, Uttar Pradesh-India)

### **Work Experience**

- **From August 2005 to June 2006:** Post-Lecturer, Organization-Motilal Rastogi School of Management (Affiliated to UP Technical University and Approved by AICTE), Sarojini Nagar, Lucknow.
- **From July 2006 to June 2010:** Post-Lecturer, Organization-Integral University (Recognized by University Grant Commission), Kursi Road, Lucknow.

- **From July 2010 to June 2011:** Post-Sr.Lecturer, Organization-Integral University (Recognized by University Grant Commission), Kursi Road, Lucknow.
- **From July 2011 to February 2014:** Post-Assistant Professor, Organization-Integral University (Recognized by University Grant Commission), Kursi Road, Lucknow.
- **From March 2014 to Till Date:** Post-Associate Professor, Organization-Integral University (Recognized by University Grant Commission), Kursi Road, Lucknow.

### **Professional & Academic Responsibilities / Membership**

- **Member of Research and Development Committee** Department of Computer Science & Application, Integral University-Lucknow.
- **PhD Coordinator** Department of Computer Application, from 2014 to 2015 Integral University-Lucknow.
- International Association of Computer Science and Information Technology (IACSIT), Membership Number -80343215
- Life Membership of Indian Society for Technical Education (ISTE), Membership Number – LM 85604
- Thomson Reuters Researcher ID: A-6455-2013
- ORCID ID: 0000-0002-1105-5248
- **Member Departmental Quality Assurance Cell** in Integral University-Lucknow.
- **Member Proctorial Board** in Integral University-Lucknow, from 2007 to 2017
- **Member Flying Squad** (End Semester Examination) in Integral University-Lucknow,  
**Member Faculty Board and Board of Studies** in Integral University-Lucknow
- **Member Departmental Research Committee**, Dept. of Computer Application, Integral University-Lucknow
- **Incharge Departmental Mid Semester Examination**, Dept. of Computer Application, Integral University-Lucknow
- **Departmental Placement Coordinator**, Dept. of Computer Application, Integral University-Lucknow
- **Assistant Center Superintendent (ACS)**, Aligarh Muslim University-Entrance Examination, 2021
- **Assistant Center Superintendent (ACS)**, Uttar Pradesh Combined Agriculture and Technology Entrance Test (UPCATET) Examination, 2022
- **Assistant Center Superintendent (ACS)**, Cantonment Board Assistant Teachers Examination February 2023.

## **Patent Grant**

- “System & Method for Secure Plastic Card Based Financial Transaction Using Multiple Authentications”, Patent number: 2021101728, **Australian Government, IP Australia** (The Commissioner of Patents has granted the above patent on 2 June 2021, and certifies that the below particulars have been registered in the Register of Patents), Term of Patent: Eight years.
- “Fraud Detection Decision Support System for Plastic Card Based Transaction System through Securing the User’s End and Method thereof”, Patent Application number: 2021103141, **Australian Government, IP Australia** (The Commissioner of Patents has granted the above patent on 11 May 2022, and certifies that the below particulars have been registered in the Register of Patents), Term of Patent: Eight years.

## **Published Papers in International Journals**

- i. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “A Comparative Template for Reliable Requirement Specification”, International Journal of Computer Applications, USA (0975 – 8887), 2011, Vol. 14 No. 2PP: 27–30. DOI: 10.5120/1815-2361
- ii. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “Evaluation of Requirement Defects: An Implementation of Identification Technique” International Journal of Information & Education Technology. (IJIET 2012 Vol.2(5), pp: 448-450 ISSN: 2010-3689 DOI: 10.7763/IJIET.2012.V2.175) (**Scopus Indexed Journal**)
- iii. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “Reliability Assessment in Functioning of Requirement Defect Mitigation”, International Journal of Information & Education Technology. (IJIET 2012 Vol.2(5), pp: 521-524 ISSN: 2010-3689 DOI: 10.7763/IJIET.2012.V2.195) (**Scopus Indexed Journal**)
- iv. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “Requirement Defect Identification: An Early Stage Perspective”, International Journal of Computer Science Issues, Vol. 9, issue 5, No.1, September 2012, ISSN (online): 1694-0814, PP: 237-243. (**Scopus Indexed Journal**)
- v. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “Requirement Defect Mitigation Technique: An Early Stage Implementation”, International Journal of Computer Science Issues, Vol. 9, issue 5, No.1, September 2012, ISSN (online): 1694-0814, PP: 381-386. (**Scopus Indexed Journal**)

- vi. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “Reliability Assessment Metrics: Requirement Defect Identification and Mitigation Perspective”, Special Issue of International Journal of Computer Applications (0975 – 8887) on Issues and Challenges in Networking, Intelligence and Computing Technologies – ICNICT 2012, November 2012, PP: 15-18.
- vii. Sandeep Kr. Nayak, R.A. Khan, M.R. Beg, “Empirical Validation of Reliable Requirement Specification Framework”, International Journal of Computer Science Issues, Vol. 10, issue 2, March 2013, ISSN (online): 1694-0814 PP: 402-406. **(Scopus Indexed Journal)**
- viii. Nikhat Parveen, Sandeep Kr. Nayak, M.H. Khan, “Model to Quantify Integrity at Requirement Phase” Indian Journal of Science and Technology, ISSN:0974 -5645, Vol. 9, No. 29,pp:1-5 2017, **Web of Science, SCOPUS, Elsevier B.V, DOI: [10.17485/ijst/2016/v9i29/89280](https://doi.org/10.17485/ijst/2016/v9i29/89280)**
- ix. Nikhat Parveen, Sandeep Kr. Nayak, M.H. Khan, “An Empirical Framework to Address Security Requirement” Indian Journal of Development Research and Social Action, Vol. 13, Issue 2,131-146 2017 (ISSN. No. 0973-3116)
- x. Nagendra Kumar Singh, Sandeep Kr. Nayak, “The Threat Detection Framework for Securing Semantic Web Services” Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955,Vol. 16. No. 12, 5099-5104, 2019 **(Scopus Indexed Journal)**, DOI: <https://doi.org/10.1166/jctn.2019.8569>
- xi. Nagendra Kumar Singh, Sandeep Kr. Nayak, “A Pragmatic Algorithm for Attack Prevention on Semantic web Services” International Journal of Engineering and Advanced Technology, ISSN: 2249-8958, Vol. 9, Issue 1,pp 1945-1950, 2019 **(Scopus Indexed Journal)**, DOI: 10.35940/ijeat.A9341.109119
- xii. Nagendra Kumar Singh, Sandeep Kr. Nayak, “Semantic Web Services: An Empirical Methodology to Security” International Journal of Engineering and Advanced Technology, ISSN: 2249-8958, Vol. 8, Issue 6,pp: 3100-3104, 2019 **(Scopus Indexed Journal)**, DOI: 10.35940/ijeat.F9033.088619
- xiii. Nagendra Kumar Singh, Sandeep Kr. Nayak, “A Framework for Integrated Threat Detection on Semantic Web Services ” International Journal of Control and Automation, ISSN: 2005-4297, Vol. 12 No. 4, 157-169, 2019 **(Scopus Indexed Journal)**
- xiv. Mirza G. Baig, Sandeep Kr. Nayak, “Critical Analysis On Data Science And Big Data Avenues” International Journal Of Scientific & Technology Research, ISSN: 2277-8616, Vol.8, Issue 11,pp: 1622-1627, 2019 **(Scopus Indexed Journal)**

- xv. Vipin Khattri, *Sandeep Kr. Nayak*, Deepak Kumar Singh, “Plastic card circumvention an infirmity of authenticity and authorization”, Journal of Financial Crime Emerald Publishing Ltd, ISSN: 1359-0790, Vol.27, Issue 2, pp: 959-975, 2020 (**Scopus Indexed Journal**), DOI: <https://doi.org/10.1108/JFC-03-2020-0034>
- xvi. Nagendra Kumar Singh, *Sandeep Kr. Nayak*, “Statistical Analysis of Threat Detection Framework for Securing Semantic Web Amenities”, International Journal of Psychosocial Rehabilitation, ISSN: 1475-7192, Vol.24, Issue 8, pp: 8295-8306, 2020 (**Scopus Indexed Journal**), DOI, [10.37200/IJPR/V24I8/PR280837](https://doi.org/10.37200/IJPR/V24I8/PR280837)
- xvii. Vipin Khattri, *Sandeep Kr. Nayak*, “Cloud Computing Challenges and its Implications”, Test Engineering and Management, ISSN: 0193-4120, Vol. 82, Issue:1, 4062-4066, 2020 (**Scopus Indexed Journal**), Vol. 82: Jan/Feb 2020
- xviii. Arpita Singh, Sanjay Kr. Singh, *Sandeep Kr. Nayak*, “Cyber-Crime and Digital Forensic: Challenges Resolution”, Solid State Technology, ISSN: 0038-111X , Vol. 64, Issues:2, pp: 166-176, 2021 (**Scopus Indexed Journal**)
- xix. Afsaruddin, Devendra Kr. Singh, *Sandeep Kr. Nayak*, “Efficient Prediction of Big Data Analytics Using Various Approaches”, Journal of Advanced Research in Dynamical & Control Systems, ISSN: 1943-023X, Vol.12, Issue:7, pp: 1817-1827, 2020 (**Scopus Indexed Journal**), DOI: [10.5373/JARDCS/V12SP7/20202294](https://doi.org/10.5373/JARDCS/V12SP7/20202294)
- xx. Vipin Khattri, *Sandeep Kr. Nayak*, “Performance Improvement of Classification Model with Imbalanced Dataset”, Turkish Journal of Computer and Mathematics Education, ISSN: 1309-4653, Vol.12, Issue:13, pp: 402-408, 2021 (**Scopus Indexed Journal**)
- xxi. Vipin Khattri, *Sandeep Kr. Nayak*, “An Augmentation of Credit Card Fraud Detection using Random Under sampling”, Turkish Online Journal of Quality Inquiry, ISSN: 1309-6591, Vol.12, Issue: 6, pp: 664-674, 2021 (**Scopus Indexed Journal**)
- xxii. Vipin Khattri, *Sandeep Kr. Nayak*, “Identification and Mitigation of fraudulent Transaction using Deep Autoencoder” Journal of University of Shanghai for Science and Technology, ISSN: 1007-6735, Vol.23, Issue: 11, pp: 769-775, 2021 (**Scopus Indexed Journal**)
- xxiii. Mirza G. Baig, *Sandeep Kr. Nayak*, “Machine Learning Intelligence in COVID-19 Prediction: An Adoptable for Automation” International Journal of Mechanical Engineering, ISSN: 0974-5823, Vol. 6, Issue: 2, pp: 126-132, 2021 (**Scopus Indexed Journal**)
- xxiv. Arpita Singh, Sanjay Kr. Singh, *Sandeep Kr. Nayak*, “An Optimistic Approach for Crime Detection and Digital Forensic”, International Journal of Early Childhood Special Education, ISSN: 1308-5581, Vol. 14, Issue: 3, pp: 4593-4603, 2022 (**Scopus Indexed Journal**)

- xxv. Arpita Singh, Sanjay Kr. Singh, Sandeep Kr. Nayak, “Need of Technoscience and Digital Forensic in Emerging Crime: A Study on Cybercrime”, YMER an International Open Access Journal, ISSN: 0044-0477, Vol. 21, Issue: 10, pp: 952-973, 2022 (**Scopus Indexed Journal**)
- xxvi. Afsaruddin, Devendra Kr. Singh, Sandeep Kr. Nayak, “An Effective Big Data Model for Better Business Intelligence Insights using Machine Learning” Neuro Qualtology Journal, ISSN: 1303-5150, Vol. 20, Issue: 13, pp: 3664-3677, 2022 (**Scopus Indexed Journal**)
- xxvii. Arpita Singh, Sanjay Kr. Singh, Nilu Singh, Sandeep Kr. Nayak “An Algorithm for Crime Detection in Digital Forensics” Journal of Survey in Fisheries Sciences, ISSN: 2368-7487, Vol. 10, Issue: 3S, pp: 1281-1290, 2023 (**Scopus Indexed Journal**)

### **Presented Papers in International Conferences**

- i. “Information Mining in Software Requirement Repository”, IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions organized by Indian Institute of Technology – Kanpur on, pp: 23-27, 14<sup>th</sup> July 2013.
- ii. “Survey and Analysis on Addressing Security: A Security Requirement Framework” IEEE International Conference on Computational and Characterization Techniques in Engineering and Sciences CCTES18, at Integral University, 14-15 September 2018 (**Scopus Indexed**), 978-1-5386-4254-2.
- iii. “IoT Based Air Pollution Monitoring System”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 05.11.2020.
- iv. “Data Science and Machine Learning in E-Commerce”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 05.11.2020.
- v. “Weapon Autonomy: Greedy Algorithm Selecting & Attacking Perspective”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 05.11.2020.
- vi. “An Overview of Security Testing: A Design Perspective”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-

- 2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 06.11.2020.
- vii. “Advancement of Privacy Issues in Crowdsourcing”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 06.11.2020.
  - viii. “Virtualization as A Pertinent Prerequisite for Cloud Computing”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 06.11.2020.
  - ix. “The Necessity of Creating A Unified Framework As A General IoT Platform”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 07.11.2020.
  - x. “Advancing Towards Secure Digital Economy: An Introduction to Blockchain Technology”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 07.11.2020.
  - xi. “Role of Balanced Dataset in Classification Task of Machine Learning”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 07.11.2020.
  - xii. “Big Data Protection and Security: Handling In COVID-19 The Cyber Pandemic”, 1st International Conference on "Emerging Trends In Technology & Its Impact on Law (ETTIL-2022)" organized by Faculty of Law in collaboration with Department of Computer Application, Integral University, Lucknow, India 30.03.2022.
  - xiii. “Deployment of Secure Tor-of-Things under Legal Regulations in India”, 1st International Conference on "Emerging Trends In Technology & Its Impact on Law (ETTIL-2022)" organized by Faculty of Law in collaboration with Department of Computer Application, Integral University, Lucknow, India 30.03.2022.

## **Book Chapters**

- i. **“Reliable Requirement Specification: Defect Analysis Perspective”**, 4<sup>th</sup> International Conference on Recent Trends in Computing, Communication and Information Technologies at VIT University, Vellore-TN, Proceedings published by Springer – LNCS in CCIS, ISBN No. Online: 978-3-642-29216-3, Print: 978-3-642-29215-6, 2011, 740-751, Krishna P.V., Babu M.R.
- ii. **“Requirement Defect Identification and Their Mitigation through Severity and Priority”**, International Conference on Communication and Electronics Information, ASME Press (USA), ISBN No.: 9780791859940, **Indexed in Thomson ISI.2012** PP: 427-431, Jianhong Zhou
- iii. **“Empirical Approach of RRSF: Requirement Defect Analysis Perspective”**, in IEEE sponsored ICRTCSE -2014 conference at Central University of Bihar, February-2014, PP: 25-30, ISBN No. 978-81-8487-391-7, Published as Book Chapter by Narosa Publications.(Computer Science and Engineering: Recent Trends)
- iv. **“An Enhanced Authentication Technique to Mitigate the online Transaction Fraud”** 3<sup>rd</sup> International Conference on Intelligent Communication, Control and Devices, at University of Petroleum and Energy Studies, Dehradun, Springer Singapore [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 989), ISBN No.: 978-981-13-8618-3 India, 21-22 December 2018.pp: 123-132, (Scopus Indexed), Choudhury, S., Mishra, R., Mishra, R.G., Kumar, A. (Eds.)
- v. **“Development of Integrated Distance Authentication and Finger Print Authorization Mechanism to Reduce Fraudulent Online Transaction”** 3<sup>rd</sup> International Conference on Intelligent Communication, Control and Devices, at University of Petroleum and Energy Studies, Dehradun, Springer Singapore [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 989), ISBN No.: 978-981-13-8618-3 India, 21-22 December 2018.pp: 73-83, (Scopus Indexed), Choudhury, S., Mishra, R., Mishra, R.G., Kumar, A. (Eds.)
- vi. **“A Review on Integrating Evolutionary Multi-Objective Optimization in Developing Fuzzy Systems”**, IEEE International Conference on Computational and Characterization Techniques in Engineering and Sciences CCTES18, at Integral University, 14-15 September 2018 (**Scopus Indexed**), ISBN: 978-1-5386-4254-2.pp:252-257
- vii. **“The Threat Detection Framework for Securing Semantic Web Services Based on XACML”** 5th International Conference on Computational Intelligence and Communication, Springer, Singapore [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1086), ISBN NO.: 978-981-15-1275-9, pp:139-147, June 2020 (Scopus Indexed), Gao XZ., Tiwari S., Trivedi M., Mishra K. (eds)



- viii. “Latency Evaluation in IoT-Fog Model” World Conference on Smart Trends in Systems, Security and Sustainability, at London-UK, 29-30 July 2021 (**Scopus Indexed**)/**IEEE Explore Digital Library**. Lect. Notes in Networks, Syst., Vol. 334, Atulya K Nagar et al. (Eds): Intelligent Sustainable Systems, Lecture Notes in Networks and Systems Book Series (LNNS, Vol. 334), 978-981-16-6368-0, 514156\_1\_En, (Chapt 55), pp:605-613.
- ix. “The Necessity of Creating A Unified Framework As A General IoT Platform”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 07.11.2020. ISBN: 978-93-94070-92-9 (Aargon Press, New Delhi) Chapt.07, pp: 143-162
- x. “Role of Balanced Dataset in Classification Task of Machine Learning”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 07.11.2020. ISBN: 978-93-94070-92-9 (Aargon Press, New Delhi) Chapt.14, pp: 267-279
- xi. “Virtualization as A Pertinent Prerequisite for Cloud Computing”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 06.11.2020. ISBN: 978-93-94070-92-9 (Aargon Press, New Delhi) Chapt.16, pp:311-330
- xii. “Weapon Autonomy: Greedy Algorithm Selecting & Attacking Perspective”, International E-Symposium on "Recent Advancements in Information and Communication Technology", RAICT-2020 in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by IEEE- U.P. Section, 05.11.2020. ISBN: 978-93-94070-92-9 (Aargon Press, New Delhi) Chapt.19,pp: 358-368

### **Book(s)**

- “**Reliable Requirement Specification: An Approach to Defect Analysis**”, Lambert Academic Publishing (Germany based Publisher), ISBN: 978-3-659-81659-8. (2016)
- “**Development of a Model to Secure Semantic Web services Analysis**”, Lambert Academic Publishing (Germany based Publisher), ISBN: 978-620-4-75048-4. (2022)

## **Editor(s)**

- Proceedings of National Seminar “**Emerging Trends and Advancements in Cyber Security**”, is under processing by International Publisher with ISBN: 978-81-7678-257-9, (2016)
- A three-day long International E-Symposium on "**Recent Advancements in Information and Communication Technology**", **RAICT-2020** in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by Institute of Electrical and Electronics Engineers (IEEE) Uttar Pradesh Section, (2020), 978-93-94070-92-9 (Aargon Press, New Delhi)

## **Published Abstract**

- i. “Defect pattern Discovery for Critical Time Decision”, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- ii. “Decision Making through Deep Learning Analytics “, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- iii. “Outlier Detection on Social Media Big Data”, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- iv. “Big Data Analytics through Cloud Computing on Social Media “, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- v. “Big Data Governance and Policy Concern”, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- vi. “Business Intelligence Tools using Big Data Environment”, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- vii. “An easy Approach to Big Data Handling”, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP
- viii. “Decision Support System of Big Data Analytics”, 3<sup>rd</sup> Lucknow Science Congress LUSCON-2015 National Conference on Science for Society an Interdisciplinary Approach, on 31<sup>st</sup> October to 2<sup>nd</sup> November 2015 at Lucknow-UP

## **PG dissertations / Ph.D. thesis guided**

### **Guided Programme**

MCA  
M.Tech  
PhD

### **No. of Candidates**

**38** : Industrial projects/ Dissertations  
**02** : M.Tech Computer Sc. & Engg. Dissertations  
**10** : Details are given below

<b>Name of Ph.D Scholar</b>	<b>University</b>	<b>Research Domain</b>
Ms. Nikhat Parveen	Integral University	Software Engineering (Awarded in 2017)
Mr. Nagendra Kumar Singh	Integral University	Software Engineering (Awarded in 2020)
Mr. Vipin Khatri	Integral University	Transaction Security (Awarded in 2022)
Mr. Mirza Ghazanfar Baig	Integral University	Big Data Analytics
Mr. Santosh Kumar	Integral University	Crowdsourcing
Miss. Eram Fatima	Integral University	Big data
Al Mustapha Bello (A Nigerian Native)	Integral University	Cyber Security
Mohammad Hisamuddin	Integral University	Big Data Analytics
Mr. Afsaruddin	AKTU, Lucknow	Big Data Analytics
Ms. Arpita Singh	Amity University, Lucknow	Digital Forensic

## **Design of New Curricula and Courses**

- Proposed and executed a Diploma Programme in the Department of Computer Application, Integral University, Lucknow-UP in the Year of 2019 titled: Post Graduate Diploma in Cyber Law and Security (PGDCLS).
- Introduced new courses for MCA Programme in the Department of Computer Application, Integral University, on regular basis since 2014 to till date such as: Information System Analysis and Design, Cyber Law and E- Security, Research Methodology and Tools, Agile Methodology, Software Reliability, Cloud Computing, Big Data Analytics and Blockchain Computing.

## **Key Attainments**

- Organized a Two Day National Conference on “**Emerging Technologies (NCET-08)**” at Integral University, Lucknow on **29-30 March, 2008**. Worked as a **Co-Convener & Contact Person** and designed all the relevant proposals, reports and documents for the Conference and issued certificates to the delegates, authors and students.
- Organized a One Day **International Seminar on Modern Trends in Engineering and Science (MTES 17)** on 3<sup>rd</sup> August 2017, Technically Supported by IEEE UP Section, ISTE and Integral University and worked as **Technical Program Committee Member**

- Organized a Two Day **IEEE International Conference on Computational& Characterization Techniques in Engg & Sciences (CCTES 18)** on 14<sup>th</sup> & 15<sup>th</sup> September 2018, Technically Supported by IEEE UP Section, ISTE and Integral University and worked as **Technical Programme Co-Chair**.
- Organized three-day long International E-Symposium on "**Recent Advancements in Information and Communication Technology**", **RAICT-2020** in association with the Indian Society for Technical Education (ISTE), Institute of Engineers India (IEI), and technically co-sponsored by Institute of Electrical and Electronics Engineers (IEEE) Uttar Pradesh Section, (2020)
- Organizing a Two Week long **Faculty Development Programme on “Next-Gen Computing Technologies”** as Coordinator in Department of Computer Application, Integral University during 10th November to 25th November 2021.
- Organized a National Level Seminar on “**Cyber Swachhta Abhiyan**” as Coordinator in Department of Computer Application, Integral University, 30th October 2021.
- Has been the **Admission Coordinator** in Motilal Rastogi School of Management, Lucknow from 2005 to 2006.
- **Member of Proctorial Board** in Integral University, Lucknow from 2007 to 2008.
- Organized a One Day Seminar on “Economic Empowerment of the Deprive through Timely Information and its Utilization” together with “Zaqat Foundation of India” at Integral University, Lucknow on 2<sup>nd</sup> February, 2011.
- **Member of Proctorial Board** in Integral University, Lucknow from 2011 to 2017
- Appointed as **Session Chair** in an International Conference ICIET-12 at Mumbai on the date of 14<sup>th</sup> -15<sup>th</sup> January, 2012.
- Appointed as **Session Chair** in National Conference on Emerging Trends in Non Conventional Energy Resources 2016, Technically Supported by IEEE UP Section, ISTE and Integral University on 22<sup>nd</sup> October 2016.
- Appointed as **Session Chair** in International Seminar on Modern Trends in Engineering and Sciences, on 3<sup>rd</sup> August 2017, Technically Supported by IEEE UP Section, ISTE and Integral University.
- Appointed as **Session Chair in** IEEE International Conference on Computational& Characterization Techniques in Engg & Sciences (CCTES 18) on 14<sup>th</sup> & 15<sup>th</sup> September 2018, Technically Supported by IEEE UP Section, ISTE and Integral University.
- Organized a two day faculty development programme on “**Loophole + Ethical Hacking**” in association with **Kyrion Digital Securities (P) Ltd.** At Integral University, Lucknow on 15<sup>th</sup> - 16<sup>th</sup> September, 2012

- Organized a One Day National Seminar on “Cyber Laws and Information Security” at Integral University, Lucknow on **2<sup>nd</sup> March, 2013**.
- Appointed as core committee member for maintaining Law & Order during the visit of VVIP delegates in the University premises.
- Appointed as core committee member for maintaining Law & Order and worked as flying squad during end semester examination of the University since 2011 to till date.

### **Seminar / Workshop Attended**

- “Rational Rose Training Program”- conducted by IBM at Integral University, Lucknow.
- Attended a seminar “Shaping Your Mind” conducted by Lucknow Management Association, 9th August, 2008.
- “Workshop on Language & Communication skills”- conducted by Converse School of Communication-an ICC Initiative, at Integral University, on 16th-19th June 2009.
- Attended two days National Conference on “Minority Education in Uttar Pradesh” organized by Aligarh Muslim University and Integral University at Integral University on 24-25 April 2010.
- Attended two day workshop on “Preparation of Self Learning Material” organized by Distance Education Council (DEC) and Directorate of Distance Education, Integral University at Integral University on 5-6 June 2012.
- Attended a seminar on “Ageing and Health” organized by World Health Organization- India and Integral Institute of Medical Science & Research at Integral University on World Health Day 7th April 2012.
- Attended two days National Seminar on “Computational Paradigm for Tomorrow” organized by Northern India Engineering College, Lucknow on 24-25 Feb 2011.
- Attended one day workshop on “Economic Empowerment of the Deprived through Timely Information and its Utilization” conducted by Zakat Foundation of India at Integral University on 02 Feb 2011.
- Organized one day Poster Presentation in Department of Computer Applications in Integral on August, 2014.
- Attended one day National Workshop on “Arm Controlled Robotics” Integral University- Lucknow on 13<sup>th</sup> February, 2015.

### **FDP/STC/Courses Attended**

- Workshop on “Ethical Hacking and Information Security” organized by Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University of India, Accredited with ‘A’ Grade by NAAC) Lucknow, during 06th -12th August, 2015.

- Faculty Development Programme on “MATLAB and its Application in Engineering” organized by Dr. A.P.J. Abdul Kalam Technical University, Lucknow hosted by Azad Institute of Engineering Technology during 14<sup>th</sup> – 18<sup>th</sup> January, 2016.
- Short Term Course on “Data Analysis/SPSS and MINITAB” organized by Centre of Academic Leadership and Education Management under the scheme of PMMMNMTT (MHRD, Govt. of India) and UGC HRD Centre- Aligarh Muslim University held at Integral University, Lucknow, during 02<sup>nd</sup> – 08<sup>th</sup> February, 2016.
- Short Term Course on Tools for Engineering Research through ICT organized by NITTTR Chandigarh and MHRD at Integral University, during 30<sup>th</sup> January 2017 to 3<sup>rd</sup> February 2017.
- Faculty Development Programme (Online) on “Python Programming” Organized by Amity Institute of Information Technology, Amity University in association with Spoken Tutorial Project, IIT Bombay during 01 May, 2020 to 05 May, 2020.
- Faculty Development Programme (Online) on “R-Programming Language” Organized by Department of Computer Application in association with Spoken Tutorial Project, IIT Bombay-Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT), during 11 May, 2020 to 15 May, 2020
- Faculty Development Programme (Online) on “Moodle: Learning Management System” Organized by Department of Computer Application in association with Spoken Tutorial Project, IIT Bombay-Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT), during 16 May, 2020 to 20 May, 2020
- Course attended “Blockchain A-Z<sup>™</sup> Learn How to Build Your First Blockchain” through Udemy.com during 33 Hours in the month of May-June 2020.
- Quality Improvement Programme on “Spreadsheet Applications: Intermediate Level” Organized by Internal Quality Assurance Cell (IQAC) and Human Resource Development Center (HRDC), Integral University-Lucknow, during 25 June 2021 to 15 July 2021.

### **Major Subject Taught**

- Software Engineering, Data Warehouse and Data Mining, Enterprise Resource Planning, Cyber Law and E-Security, E-Commerce, System Analysis & Design, Blockchain Computing, Big Data etc.

### **Invited Talk/Expert Lecture**

- i. Expert Lecture on “E-Kranti - E-Governance“ in the Three week Research Methodology Course organized by Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow from 5<sup>th</sup> January 2017 to 28<sup>th</sup> January 2017.

- ii. Expert Lecture on **“Intellectual property Right “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 11<sup>th</sup> September 2017.
- iii. Expert Lecture on **“Human Right perspective of IPR “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 12<sup>th</sup> September 2017.
- iv. Expert Lecture on **“Impact of IPR Regimes “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 18<sup>th</sup> September 2017.
- v. Expert Lecture on **“History of Copyright Law “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 3<sup>rd</sup> October 2017.
- vi. Expert Lecture on **“Trade Mark: A Component of IPR “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 6<sup>th</sup> October 2017.
- vii. Expert Lecture on **“Certification Mark & Trade Dress “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 17<sup>th</sup> October 2017.
- viii. Expert Lecture on **“Indian Trade Mark Law “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 6<sup>th</sup> November 2017.
- ix. Expert Lecture on **“Trade Mark Classification “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 13<sup>th</sup> November 2017.
- x. Expert Lecture on **“Roles & Responsibilities of Appellate Board “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 20<sup>th</sup> November 2017.
- xi. Expert Lecture on **“Trade Secret an Important issue in India “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 27<sup>th</sup> November 2017.
- xii. Expert Lecture on **“Indian Patent law “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 4<sup>th</sup> December 2017.
- xiii. Expert Lecture on **“Patent Vs Invention “**in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 11<sup>th</sup> December 2017.

- xiv. Expert Lecture on **“Information Technology Legislation in India** “in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 19<sup>th</sup> January 2018.
- xv. Expert Lecture on **“Cyber Laws: Indian Vs Global Perspective** “in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 29<sup>th</sup> January 2018.
- xvi. Expert Lecture on **“IT Act 2000 and IT Amendment Act 2008** “in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 31<sup>st</sup> January 2018.
- xvii. Invited Talk on **“The E Kranti Framework“** during two weeks Training Course on Cyber Security (TCCs - 2018) from in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 5<sup>th</sup> February 2018.
- xviii. Invited Talk on **“Policy on Adoption of Open Source Software for Govt. of India** “during two weeks Training Corse on Cyber Security (TCCs - 2018) from in the Department of Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow on 6<sup>th</sup> February 2018.
- xix. Invited Talk on **“E-Governance: An Indian Perspective** “during two day **IEEE International Conference on Computational& Characterization Techniques in Engg & Sciences (CCTES 18)** on 14<sup>th</sup> September 2018 at Integral University.
- xx. Invited Talk on **“Global Impact of Digital Era** “during two day **IEEE National Conference on Computational & Characterization Techniques in Engg & Sciences (CCTES 19)** Under Sponsorship of **TEQIP-3** on 6<sup>th</sup> & 7<sup>th</sup> September 2019 at Rajkiya Engg. College Ambedkar Nagar, UP
- xxi. Invited Talk on **“Intellectual Property Right (IPR)”** during a National Level Webinar organized by Computer Society of India, Lucknow Chapter on 26<sup>th</sup> June 2021.
- xxii. Invited Talk on **“Intellectual Property Right (IPR)”** in a National Workshop organized by IPR Cell of Integral University, Lucknow on 1<sup>st</sup> March 2023.

### **Others**

- Appointed as paper setter for the B.Tech, B.C.A., B.B.A., M.C.A., P.G.D.C.A and M.Sc. (IT) courses for Integral University, Roheilkhand University, Awadh University, SRMU and Lucknow University.
- Appointed as external examiner for several undergraduate and post graduate examinations for several Govt. Colleges, Institutions and Universities.
- Project Guide for MCA Final Year Industrial Project.
- **Coordinator** for Annual “Sports Meet” in the Dept. of Computer Applications.



- Designed syllabus for many subjects of Under Graduate and Post Graduate courses.
- Worked as a **visiting faculty** since July, 2006 to June, 2008 in University of Lucknow, Lucknow.
- Appointed as **Technical Trainer** for ICICI Bank Executives at Manipal Universals, Lucknow.
- Appointed as **Management Trainer** for BSNL Junior Telecom Officers, Lucknow.
- **Reviewer** for various International Conferences and Journals.

### **Personal Details**

<b>Father</b>	:	Shri.Chandra Bhushan Nayak
<b>Mother</b>	:	Mrs. Nandla Nayak
<b>Date of Birth</b>	:	July 7 <sup>th</sup> 1981
<b>Gender</b>	:	Male
<b>Marital Status</b>	:	Married
<b>Passport</b>	:	N2193539
<b>Nationality</b>	:	Indian
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**(Dr. Sandeep Kumar Nayak)**