



# SEBASTIAN ALPHONSE, SJ

## CONTROLLER OF EXAMINATIONS

### CONTACT

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XTTI Campus  
Digha-Ashiyana Road  
Patna - 800011, BIHAR

### EDUCATION

2015 - 2018  
GANDHIGRAM RURAL INSTITUTE, TN  
• Phd in Computer Networks

2006- 2009  
VIDYAJYOTHI, DELHI  
• Bachelor of Theology

2003 - 2006  
LOYOLA COLLEGE, CHENNAI  
• MCA

1999 - 2001  
JNANADEEPA VIDYAPEETH, PUNE  
• Bachelor of Philosophy

1996 - 1999  
ST. JOSEPH'S COLLEGE, TRICHY  
• BSc Physics

### PROFILE

With extensive academic and administrative experience in teaching computer science, research on Internet of Things, Cyber Physical Systems, and Smart City Applications, motivated and Experienced in guiding students through academic orientation and career-focused training in emerging technologies. Strong expertise in academic governance, policy implementation, and digital transformation in education. Dedicated to fostering innovation and excellence in higher education through technology-driven initiatives.

### CONFERENCE

- Presented paper at International Conference at University Technology Malaysia , Kuala Lumpur, 2018
- Keynote Address on "Graph Theory and Internet of Things for Engineering Applications" at International Conference, Vellore Institute of Technology, Chennai, 2019
- Keynote Address on "Internet of Things for Modern Sciences"at International Conference at Loyola College, Chennai, 2020
- Invited Talk on " IoT for Agricultural Practices" at Loyola Academy, Secunderabad, 2020
- Talk on AI Tools for Future Teachers, St. Xavier's College of Education, Patna on 22 November 2023
- Guest Lecture on AI Tools for Research and Paper Writing, Patna Women's College, Patna on 05 July, 2024
- Guest Lecture on "Mathematics for Computer Applications"at Patna Science College, Patna, 2024

### PHD THESIS

Load Balancing Schemes For IPV6  
Routing Protocol for Low Power  
and Lossy Networks In Internet of  
Things

### Area of Specialisation

- Computer Networks
- Internet of Things
- AI and Machine Learning
- Smart City Applications

### WORKSHOP

- Two Day workshop on IT Tools for Modern Teachers, Nirmala Girls High School, Mahehmunda, Jharkhand on 24 July 2023
- Staff Training on National Education Policy 2020: Opportunities and Challenges, St. Xavier's Hr. Sec. School, Raiganj, West Bengal on 18 October 2024
- Teachers Orientation on AI Tools for Teaching and Evaluation, St. Michael's High School, Patna on 23 March 2025
- Orientation for Parents On walking with your wards, St. Mary's High School, Raja Bazar, Patna on 04 April 2025
- Workshop on Social Media and Cyber Crime for Students at St. Theresa Girls Hr. Sec. School, Bettiah, September, 2025



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### PUBLICATIONS

- *Bandwidth Allocation based Load Balancing for RPL*, International Journal of Computer Science and Engineering, ISSN: 2347-2693, vol. 6, pp. 76-80, (2018) (UGC Indexed: 63193)
- *Emergency Rescue Operation using Q-Learning for RPL based Internet of Things*, ROYAL, Ajanta Prakashan, ISSN: 2778-8158, vol. VI, Issue II, pp. 1551-1691 (2018) (UGC Indexed: 47037)
- *A Survey on Load Balancing Schemes in RPL based Internet of Things*, International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278-1323, (2018) (UGC Indexed: 47442)
- *IoT challenges in Data and Citizen Centric Smart City Governance, Smart Cities-Development and Governance Framework*, ISBN: 978-3-319-76668-3, doi: 10.1007/978-3-319-76669-0, SPRINGER, 2018 (Scopus Indexed)
- *Multi DODAGs in RPL for Reliable Smart City IoT*, Journal of Cyber Security and Mobility, ISSN: 2245-1439, vol.7\_2, pp. 1-16, doi: 10.13052/jcsm2245-1439.723, 2018 (Scopus Indexed)
- *Smart Trash Pool System for Smart Cities*, International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278-1323, vol. 7, pp. 2278-1323, (2018) (UGC Indexed: 47442)
- *Load Balancing metric based Routing Protocol for Low Power and Lossy Networks (lbRPL)*, International Journal of Engineering & Technology, ISSN: 2227-524X, vol. 7 (2.22), pp. 39-44 (2018) (Scopus Indexed)
- *Multi Sink RPL based Internet of Things for Emergency Response in Smart Cities*, International Journal of Pure and Applied Mathematics, ISSN: 1311-8080, vol. 118, No. 18, pp. 2875-2880, (2018) (Scopus & UGC Indexed)
- *Load Balancing Optimization for RPL based Emergency Response using Q-Learning*, MATTER: International Journal of Science and Technology, ISSN: 2454-5880, 2028
- *Child Count based Load Balancing in Routing Protocol for Low Power and Lossy Networks (ch-LBRPL)*, Smart Innovation and Technology, ISSN: 2190-3018, SPRINGER, 2018 (Scopus Indexed)

### PATENT