

## Faculty Profile

**Name:** RUPANKA BHUYAN

**Designation:** Registrar

**Teaching Areas:** Data Structures,  
Computer Networking,  
Database Management Systems,  
Operating Systems,  
Computer System Architecture



**Research Interests:** Soft Computing

**Education:** NET, University Grants Commission  
MCA, Allahabad Agricultural Institute Deemed University  
'A' Level, DoEACC, New Delhi

### Professional Experience: 24+ Years

1. Apr 2022 – Till Date: **Registrar**  
*The ICFAI University, Nagaland.*
2. Dec 2020 – Apr 2022: **Controller of Examinations,**  
*The ICFAI University, Nagaland.*
3. Nov 2016 – Dec 2020: **Academic Coordinator (IT & Management),**  
*The ICFAI University, Nagaland.*
4. Aug 2007 – Jul 2017: **Head of the Department,** Department of IT & Mathematics,  
*The ICFAI University, Nagaland.*
5. Aug 2007 – Apr 2022: **Assistant Professor,** Department of IT & Mathematics,  
*The ICFAI University Nagaland.*
6. Mar 2007 – Aug 2007: **Head of IT Department,** *Third Eye Infosys, Guwahati, Assam.*
7. Aug 2005 – Mar 2007: **Head and Sr. Lecturer,** Dept. of Computer Science, *NEF College of MIT, Guwahati, Assam.*
8. May 2002 – Jun 2002: **Visiting Faculty,** *Indian Institute of Entrepreneurship (IIE), Govt. of India, Guwahati, Assam .*
9. Jan 1998 – Aug 2001: **Faculty Member (Computers),** *Zoram Electronics Development Corp. Ltd. (ZEDCL), Govt. of Mizoram, Aizawl, Mizoram.*
10. Sep 1996 – Mar 1997: **Programmer cum Data Entry Operator,** *Dataprime Academy of Computer Studies, Guwahati.*

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### **Administrative / Examination-related Experiences:**

1. Exam Observer (for IIT Madras)
2. Controller of Examinations, ICFAI University Nagaland
3. External Examiner, St. Joseph's University, Nagaland
4. Test Center Administrator, (at Center : ICFAI University Nagaland)
  - NABARD
  - IIT Madras - NPTEL
  - NEET PG
  - NTA-CSIR NET Examination
  - NTA-UGC NET Examination
  - EPFO Examination
5. Assistant Examination Superintendent, IGNOU-MCA Practical Examination

### **Editorial Experiences:**

1. Editor-in-Chief and Technical Adviser, Tapasya (online magazine), ICFAI University Nagaland, Oct 2013 – May 2018. URL: [www.iunagaland.edu.in/Tapasya-eMagazine.html](http://www.iunagaland.edu.in/Tapasya-eMagazine.html)

### **Professional Memberships:**

1. Life Member (Associate), Institution of Electronics and Telecommunication Engineers (IETE), New Delhi.

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### Research Publications:

1. Rupanka Bhuyan. **“Soft Computing For Wheat Grain Identification”**. *Global Journal of Applied Engineering in Computer Science and Mathematics (GJAECMSMA)*. Vol. 1. Issue 1. Dec 2020. St. Joseph University, Nagaland. ISSN: 2582-9939.
2. Rupanka Bhuyan et. al. **“Image Segmentation: Computational Approaches for Medical Images”**. *International Journal of Computer Applications*. NCWBCB(3): pp. 13-17. May 26, 2014. Foundation of Computer Science, New York, USA. ISSN: 0975-8887.
3. Rupanka Bhuyan et. al. **“A Survey of Some Density Based Clustering Techniques”**. *National Conference on Advancements in Information, Computer & Communication (AICC 2013)*. Dept. of CSE & IT, KITE, Rajasthan. March 23, 2013. Volume: Abstract. Issue: First. pp. 29 (abstract only). ISBN: 978-93-83083-01-5. DOI: [10.13140/2.1.4554.6887](https://doi.org/10.13140/2.1.4554.6887).

### Refereed Book Chapters:

1. R. Bhuyan et. al. **“Recent Advancements in Continuous Authentication Techniques for Mobile-Touchscreen-Based Devices.”** In: D. Mishra, R. Buyya, P. Mohapatra, S. Patnaik (eds). *Intelligent and Cloud Computing. Smart Innovation, Systems and Technologies*, vol 194. Springer, Singapore. 2021. DOI: [https://doi.org/10.1007/978-981-15-5971-6\\_29](https://doi.org/10.1007/978-981-15-5971-6_29). ISBN: 978-981-15-5970-9. (SCOPUS Indexed)
2. Rupanka Bhuyan. **“Contemporary Linear Stochastic Models for Forecasting IoT Time Series Data.”** In: H. Sarma, B. Bhuyan, S. Borah, N. Dutta (eds). *Trends in Communication, Cloud, and Big Data. Lecture Notes in Networks and Systems*, vol 99. Springer, Singapore. 2020. DOI: [https://doi.org/10.1007/978-981-15-1624-5\\_10](https://doi.org/10.1007/978-981-15-1624-5_10). ISBN: 978-981-15-1623-8. (SCOPUS Indexed)

### Seminars Conducted / Workshops Organized:

1. Seminar on **“Current Trends in Information Technology”**. *Department of Computer Science, St. Joseph University, Nagaland*. February 13, 2019.
2. **“Seminar for College Teachers on ICT and Digitalization in Higher Education”**. IQAC, Yemhi Memorial College, Nagaland. May 19, 2018.
3. Indian Statistical Institute & RRRLF sponsored **“Three Day Workshop on Digital Libraries : Open Source Software for Digital Repositories”**. ISI Bangalore and ICFAI University Nagaland. March 8 – 10, 2018.
4. **“Careers in IT”**. *Career Counseling Seminar*, Gospel Studio, Dimapur, Nagaland. May 5, 2012.
5. **“Conflict Resolution in Relational Database Transactions”**. *Third Eye Infosys - College Seminar*, Guwahati. May 2007.
6. **“Officers Training on the use of Internet and E-mail”**. *Electronics and IT Wing*, Directorate of Industries, Government of Mizoram. August 8, 2001.
7. **“Officers Training on Computer Appreciation”**. *Electronics and IT Wing*, Directorate of Industries, Government of Mizoram. June 15, 2000.

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## Professional Certifications / Other Educational Qualifications:

1. **Machine Learning** : *Coursera (Stanford Online)*.
2. **Short Term Course on Embedded Systems** : *Tezpur University*, Assam.
3. **Bachelor of Science** : *Gauhati University*, Assam.
4. **'O' Level (Business Professional Programmer)** : *DoEACC\* Society, (AICTE-DIT Scheme of Dept. of IT and Ministry of Communications and IT, Govt. of India)*, New Delhi.

\* Department of Electronics Accredited Computer Course

## Training Programmes / FDPs

1. **ISRO sponsored Training Programme on Remote Sensing & GIS for Natural Resources Management**. *Department of CS&E and CA, Sikkim Manipal Institute of Technology, Sikkim*.  
March 23 – April 3, 2015.
2. **Faculty Development Program (FDP) 2010** organized by *ICFAI University Tripura* (for the ICFAI Universities of the *North East* and *Jharkhand*), May 31 – June 5, 2010.
3. **Faculty Development Program (FDP) 2010** organized by *ICFAI University Tripura* (for the ICFAI Universities of the *North East* and *Jharkhand*), May 11 – 16, 2009.

## Achievements / Awards:

1. Vice Chancellor's **Certificate of Appreciation** for excellent work in *Academic & Institution building Activities*. Awarded by *ICFAI University Nagaland*. Feb 2014.
2. Ranked **1st (IT Domain)** in the **Faculty Development Program (FDP) 2010** organized by *ICFAI University Tripura* (for the ICFAI Universities of the *North East* and *Jharkhand*), May 31 – June 5, 2010.
3. Ranked **1st (IT Domain)** in the **Faculty Development Program (FDP) 2009** organized by *ICFAI University Tripura* (for the ICFAI Universities of the *North East* and *Jharkhand*), May 11 – 16, 2009.

## Software Projects:

### 1. Microsoft Teams Incorporation

June 2020 – August 2020

*Implementation of the Microsoft Teams as a full-fledged online academic platform for ICFAI University Nagaland.*

Team Size: 5

Activities (planned, executed and supervised): Configuration, Data Uploading, User Training, and Technical Support.

In use: July 2020 till date.

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## **2. Computerised Academic Information System (kc)**

May 2008 – Oct 2008

*A LAMP based project on Fedora Core 4 for the ICFAI University Nagaland.*

Tools: Apache, MySQL, HTML, JavaScript and PHP.

Database Specifications: 10 tables normalized to BCNF Level.

Input Forms: 23.

LoC: 6166.

In use: 2008 till date.

## **3. Examination Results Processing System**

Jun 2010 - Aug 2010

*For processing ICFAI University Nagaland's Semester End Examination results.*

Tools: Microsoft Excel.

In use: Jul 2010 - Jul 2013.

## **4. IUNnet**

Jan 2008 – Apr 2008

*A LAN for the University.*

Components: Squid, Apache, SSH, Webmail, and Lightsquid.

In use: 2008 till date.

## **5. Library Information System incorporating DDC Facility**

Jan 2005 – Jun 2005

*A Multi-user Information System for Library Housekeeping and Operations with Dewey Decimal Classification system.*

Operating System: Fedora Core 4.

Web Server: Apache.

Database/Back-end: MySQL.

Languages: HTML, JavaScript and PHP.

Database Specifications: 17 BCNF level normalized tables.

## **6. Automated Library System**

Jan 2002 – Jul 2002

*A Multirole Automated Library Information*

*System.* Operating System: Microsoft Windows

XP Language: Microsoft Visual Basic 6.0

Database: Microsoft Access 2000

Database Tables: 16, Normalization Level: BCNF

Forms: 28

Reports: 16

## **7. An Information System for the missiles developed under the IGMDP**

Jan 1997 – May 1997

Operating System: Microsoft

DOS 6 Language: QBasic 4.5