

Resume – Mukta Ranjan Singha

1. **NAME** : **DR. MUKTA RANJAN SINGHA**
2. **PRESENT POSITION** : **Associate Professor and HOD**
Department of Computer Application
GIMT*, Azara, Guwahati-17
3. **DATE OF BIRTH** : **8th February, 1966**
4. **QUALIFICATION** : From Graduation onwards
 - **B.Sc (Hons) from Gauhati University**
 - **MCA from JEC under Dibrugarh University**
 - **PhD in Computer Science and Engineering from Gauhati University**

EXAM PASSED	BOARD/ UNIVERSITY	YEAR OF PASSING
High School Leaving Certificate (HSLC)	Board of Secondary Education, Assam	1981
Pre – University (P.U.)	Gauhati University	1983
Bachelor of Science (BSc with Physics honours)	Gauhati University	1986
MCA	Dibrugarh University	1990
PhD (Comp Sc &Engg)	Gauhati University	2017

5. **WORK EXPERIENCE:**

(A) **Teaching Experience:** About 22 years.

- Working as **Lecturer** at IITE, Nagaon (Pvt) from June, 1990. (06-06-90 to 31-03-93)
- Left IITE, Nagaon in 1993 and joined GTTI, Guwahati as **OSD cum Course co-ordinator** in 1993. (04-06-93 to 22-03-95)
- Left GTTI, Guwahat in 1995 and worked in Assam Engineering Institute, Chandmari, Guwahati-3 as **Lecturer** (under Project IMPACT and SSS) (23-03-95 to 31-08-2001)
- Left Assam Engineering Institute in 2001 and joined in **NERIM** (North Eastern Regional Institute of Management) as **Reader and HoD** in 2001.(01-09-2001 to 12-07-2009)
- Left **NERIM** as Reader and HoD in July 2009 and Joined GIMT as **Assistant Professor and HOD** in July, 2009. (13-07-2009 to till date)
- Redesignated as **Associate Professor and HoD** in 2010 at GIMT , (in July 2010).
- Presently working as **Associate Professor** in Girijananda Chowdhury University, Hathkhowapara, Azara, Guwahati – 781 017.

(B) Other Experiences :

1. Assigned as **IQAC Director, GCU, Assam**, Guwahati from September 10, 2020 to till date
2. Assigned as **NAAC Cordnator, GCU, Assam**, Guwahati from from 07-02-2023 to till date.
3. Assigned as **IQAC Director, GIMT**, Guwahati from September 10, 2020 tom07-02-2023
4. Assigned as **Dean Academics, GIMT Guwahati** 2016 to 2019.
5. Assigned as **Team Leader NBA Accreditation** from 2012 to 10-04-2019
6. Assigned as **Dean Examination** from 2013 to 2016 at GIMT, Guwahati.
7. Worked as **PI-Cordinator NERIM (IGNOU)** from 01-09-2001 to 12-07-2009.
8. Worked as **Centre Suptd** for IGNOU Term End Examinations from 01-09-2001 to 12-07-2009.

(C) Work profiles:

- (i) **Teaching** primarily in the areas of Computer Organisation, Microprocessors, Database management Systems, Advanced Databases, Data warehousing, Data mining, Computer Architecture, Operating Systems, System analysis and design.
- (ii) **Training** – Computer aided design with AutoCAD, Guiding System development Project for under graduate and post graduate students including MCA, and BCA.
- (iii) **Projects and SDP's**- Completed the following Projects/ SDP's sponsored by AICTE, Govt. of India.

Sl No	Name of the Project	Amount sanctioned	Year
01	SDP at NERIM	Rs 02 Lacs	2003
02	MODROBS at NERIM	Rs 10 Lacs	2004
03	SDP at NERIM	Rs 2 Lacs	2005
04	SDP at NERIM	Rs 2 Lacs	2007
05	MODROBS at NERIM	Rs 7 Lakhs	2009
06	SDP at GIMT, Guwahati	Rs 3.5 Lakhs	2012

6. COURSES / TRAINING attended:

- (i) Short Term Course on “Industry attachment Programme” at NTTF, Bangalore from 10.01.2000 to 04.02.2000 .
- (ii) Short Term Course on “Design and analysis of Algorithms” at ISI, Kolkata from 25.02.02 to 01-03-2002.
- (iii) Short Term Course on “Pattern recognition algorithms” at ISI, Kolkata from 13.01.03 to 17-02-2003.
- (iv) Short Term Course on “MIS with special reference to database applications” at NERIM 28.11.2005 to 10.12.2005
- (v) Short term course on Faculty Development Program on “Cloud Computing” under TechSaksham Program from 30th January to 03rd February 2023.
- (vi) 5-day Faculty Development Program on Building Web Development Solutions with Cloud Computing under the Next Gen Employability Program from 09-12-2024 to 13-12-2024.
- (vii) Faculty Development Program on Modern Web Development & AI Integration under the Next Gen Employability Program from 24 November 2025 – 28 November 2025 .

7. **TEACHING AREAS OF INTEREST:**

In UG and PG level :

- (i) Computer Organisation and Computer Architecture
- (ii) System Analysis and design
- (iii) Management Information System
- (iv) Database management systems / RDBMS/ Advance databases
- (v) Data warehousing
- (vi) Data mining
- (vii) Operating systems

8. **LIST OF PUBLICATIONS**

- (i) M. R. Singha, B. Kalita, “Using Mobile Phone Network for Urban Traffic Management” International Journal of Computer Applications, (0975-8887), Volume 65-No.2, March 2013, Pp 12-17
- (ii) M. R. Singha, B. Kalita, “Estimation of city bus travelers using GSM network” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-2, Issue-5, April 2013
- (iii) M. R. Singha, B. Kalita, “Uninterrupted Traffic Flow at Junctions with Special Reference to Guwahati City”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-3, Issue-9, February 2014.
- (iv) M. R. Singha, B. Kalita, “ Mapping Mobile Phone Network onto Urban Traffic Network “, Proceeding of International Multi Conference of Computer Engineers and Scientists 2013“, Vol I, ISBN: 978-988-19251-8-3, 13-15 March 2013, Hongkong. . (Published in Scopus)
- (v) M. R. Singha, Utilizing Mobile Phone Users information for Urban Traffic planning – a study of Guwahati City, Proceedings of Two day Seminar on Recent Trends and future Prospects of Computer Science and Electronics, USTM , 21 & 22nd December 2015.
- (vi) M R Singha, Arnab Das, Pranjal Das, “Using Graph Theoretical Concept in Elephant Intrusion Detection System” International Journal of Computer Applications Technology and Research Volume 15–Issue 03, 104 – 108, 2026, ISSN: -2319–8656 DOI:10.7753/IJCATR1503.1015
- (vii) Mukta Ranjan Singha¹ , Pranjal Das² , “Hybrid Adaptive Pressure-Based Dynamic Traffic Signal Control at Urban Road Junctions”, Indian Journal of Computer Science and Technology, Volume 05, Issue 01 (January-April 2026), PP: 539-546. DOI : 10.59256/indjcst.20260501061

Address for Correspondence:

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