

**Name:** Dr.Falguni Chakraborty

**Department:** MCA

**Contact Nos.:**9933005034

**Qualifications:** Ph.D. (CSE), M.TECH (OR), MCA

**Designation:** Asst. Prof

**VIDWAN ID:** <https://vidwan.inflibnet.ac.in/profile/193700>



**Experience (Teaching / Research / Industry, in years):** Teaching 13 Years, Research 6 years, Industry 3 years

**Date of Joining at the Present Institution:** 20 September, 2008

**Examinations Cleared: NET-CSIR/GATE:** N/A

**Qualifications Summary:**

| Degree                        | Institute          | From – To | Subjects                          |
|-------------------------------|--------------------|-----------|-----------------------------------|
| Ph.D.                         | NIT DURGAPUR       | 2021      | EVOLUTIONARY ALGORITHM            |
| M.TECH                        | NIT DURGAPUR       | 2011-2014 | OPERATIONS RESEARCH               |
| MCA                           | WBUT               | 2001-2004 | COMPUTER APPLICATIONS             |
| B.SC IN COMPUTER APPLICATIONS | BURDWAN UNIVERSITY | 1997-2000 | COMPUTER APPLICATIONS             |
| HIGHER SECONDARY              | WBCHSE             | 1997      | MATH, PHY, CHEM,BIOS BENG, ENG    |
| MADHYAMIK                     | WBBSE              | 1995      | BENG,ENG,HIST,GEO,L.SC,P.SC, MATH |

**Experience Summary:**

| Designation       | Organization                                | Date From – Date To         |
|-------------------|---|-----------------------------|
| Asst.Prof         | Dr. B. C. Roy Engineering College, Durgapur | September 2008- TILL DATE   |
| Senior programmer | Prologic First India Pvt. Ltd, Kolkata      | January 2008-September 2008 |
| Senior programmer | Radiance Software Pvt. Ltd, Kolkata         | May 2006 to January 2008    |
| Programmer        | Corelynx Solution Pvt. Ltd ,Kolkata         | Nov 2005 to May 2006.       |

**Specialization/Research Interest:** EVOLUTIONARY ALGORITHM, IMAGE PROCESSING

**Awards & Recognitions Best paper/ scholarship/Position in university exam/ awards while at industry/ other organizations etc. :** N/A

**Courses taught:**

MCA: C, C++, JAVA, VB, DBMS, UNIX (BOTH THEORY & LAB)

**Online Mode of Teaching:** Google Drive and Google Meet.

**Publications:****Journal:**

**F. Chakraborty**, D. Nandi, and P. K. Roy, A novel chaotic symbiotic organisms search optimization in multilevel image segmentation, *Soft Computing*, Volume 25, Year 2021, Pages 6973-6998

DOI: <https://doi.org/10.1007/s00500-021-05611-w>

**F. Chakraborty**, D. Nandi, and P. K. Roy, "Oppositional Symbiotic Organisms Search Optimization for Multilevel Thresholding of Color Image," *Applied Soft Computing*, Elsevier, 2019, v.82, pp.1-19. ISSN: 1568-4946

DOI: <https://doi.org/10.1016/j.asoc.2019.105577>

**F. Chakraborty**, P.K. Roy, and D. Nandi, "Oppositional elephant herding optimization with dynamic Cauchy mutation for multilevel image thresholding," *Evolutionary Intelligence*, Springer, 2019, pp. 445–467. ISSN: 1864-5917

DOI: <https://doi.org/10.1007/s12065-019-00238-1>

**F. Chakraborty**, P.K. Roy, and D. Nandi, "Elephant herding optimization for multi-level image thresholding," *International Journal of Applied Metaheuristic Computing (IJAMC)*, IGI Global, 2020, v.11, n.4., ISSN: 1947-8283

DOI: [10.4018/IJAMC.2020100104](https://doi.org/10.4018/IJAMC.2020100104)

**F. Chakraborty**, P.K. Roy, and D. Nandi, "Symbiotic organisms search optimization for multilevel image thresholding," *International Journal of Swarm Intelligence Research (IJSIR)*, IGI Global, 2020, v.11, n.2, pp.31-61. ISSN: 1947-9263

DOI: [10.4018/IJSIR.2020040103](https://doi.org/10.4018/IJSIR.2020040103)

**Conference:**

**F. Chakraborty**, R. Ganguly, "An Approach: to Find The Similar Color Based Pictures From a Multimedia Database", *International Journal Of Advances In Computer Science And Its Applications*, Volume 2, 2012, International Journal. ISBN: 978-981-07-1403-1

DOI: [10.3850/978-981-07-1403-1\\_436](https://doi.org/10.3850/978-981-07-1403-1_436).

R. Ganguly, **F. Chakraborty** " An Approach to Develop a Simple Algorithm: Retrieval of Top k Objects from an Unsorted Multimedia Database ", *International Journal Of Advances In Computer Science And Its Applications*, Volume 1, 2011.

**F. Chakraborty**, P.K. Roy, and D. Nandi, "Novel chaotic elephant herding optimization for multilevel thresholding of color image," SoCTA 2019, 4TH International Conference on Soft Computing: Theories and Application. 27-29 December 2019. International Conference, Springer.

Book: N/A

**Book Chapter:** N/A

**Supervision of Ph.D/M.Tech / B.Tech Projects:**

Projects:

1. Antara Chowdhury (12001018033), Mouli Roy(12001018018) ,Online Clinic Management System, (2021)
2. Sritama Sadhu(12001015005), Shilpi Ghosh(12001015011), Juthika Ghosh (12001015020), Online Banking System (2021)
3. Antara Chowdhury (12001018033), Mouli Roy(12001018018) ,Online Shoping Systems. (2021)
4. Sritama Sadhu(12001015005), Shilpi Ghosh (12001015011), Juthika Ghosh (12001015020), Online Hotel Booking System(2021)
5. Chaitali Nandi(12001017018), Mita Rakshit (12001017011), Md Salman Khurshid (12001017013), Online Banking System(2020)
6. Abhijeet Mandal (12001016011), F.Chakraborty, "CABLE OPERATOR MANAGEMENT SYSTEM",(2019).
7. Sayan Roy(12001016003), F.Chakraborty, "EDUSITE (ONLINE EDUCATION FORUM)",(2019).
8. Subham Banerjee(12001015019) Sandip Dutta(12001015013), HERMES MAIL SERVER, (2018)
9. Debasis Dutta (12001014010), Deepanjan Moni (12001014011),Ram Janak Ram (12001014027), F.Chakraborty,"EXAMINATION ENROLLMENT MANAGEMENT SYSTEM",(2017).
10. Sumana Mandal (12001013053), F. Chakraborty, "SCHOOL MANAGEMENT SYSTEM", (2016).
11. Barun Kumar Saha (12001013013), F.Chakraborty,"ONLINE CONFERENCING MANAGEMENT SYSTEM ", (2016).

**Invited Lectures:** N/A

**Participation in seminar/conference/symposium/workshop/discussion meeting**

| <b>Name of the event</b>   | <b>Duration</b> | <b>Year</b>                                     | <b>Organized by</b>                            |
|--|-----------------|---|--|
| Training on ISO:9001:2008 Quality Management System  | 1 Day           | 5 <sup>th</sup> March 2014                      | Dr.B.C Roy<br>Engineering college,<br>Durgapur |
| Participated at the "IEEE sponsored "National conference on emerging trends on sustainable technology and engineering applications 2020"         | 2 Days          | 7 <sup>th</sup> – 8 <sup>th</sup> February 2020 | Dr.B.C Roy<br>Engineering college,<br>Durgapur |
| Technical workshop on recent trends in machine intelligence data mining and soft computing techniques and its impact on research and development | 2 Days          | 23 <sup>rd</sup> & 24 <sup>th</sup> Nov 2013    | Dr.B.C Roy<br>Engineering college,<br>Durgapur |

|   |        |   |   |
|---|--------|---|---|
| Seminar on "Advance in nano-satellite technology"                     | 1 Day  | 4 <sup>th</sup> Nov 2015                        | Dr.B.C Roy Engineering college, Durgapur          |
| One week Short time course on Advance optimization Techniques(STCAOT) | 1 week | on 13 <sup>th</sup> – 17 <sup>th</sup> Nov 2013 | Department of mathematics, NIT Durgapur.          |
| Workshop on “High Impact Teaching Skill”                              | 2 Days | 7 <sup>th</sup> & 8 <sup>th</sup> December 2009 | Dale Carnegie & Associate,Inc. Trainer and Wipro. |

**Participation in faculty development programs**

- Moodle Learning Management System/Online/21-Apr to 25-Apr/5days/2020/Organized at Dr. B.C Roy Engineering college, Durgapur with course materials provided by the Spoken Tutorial Project, IIT Bombay

**Organization of events (Dr. B. C. Roy Engineering College):** N/A

**Participation in administrative committees (selected):** N/A

**Name of the post (Convener/Joint Convenor/Member secretary/Co-ordinator etc.), Name of the committee, year:** N/A

**Project Ideas Submitted to Govt. Agencies/ On-going Projects / Research Ideas under preparation & execution;** N/A

**Membership of professional bodies: IEEE, IETE, IEL, CSI, MGMI etc.:** N/A