

Name: Mr Kingsuk Majumdar

Department: EE

Contact Nos.: (+91) 9475030263

Qualifications: M. Tech (EE)

Designation: Assistant Professor (AP) (Grade-II)

VIDWAN ID: [193399](#)

Experience (Teaching / Research / Industry, in years): 8 yrs / 4yrs

Date of Joining at the Present Institution: 15-01-2014

Examinations Cleared: GATE 2013 (scoring 93.41 percentile)

Qualifications Summary (Reverse chronological order):

Degree/ Certificate	Institute/ School	Year	Subjects
M. Tech < <i>Electrical Engineering Specialization: Electrical Systems</i> >	NIT Durgapur, India	2011-2013 (1 st Div)	Electrical Engineering
B. Tech < <i>WBUT, Electrical Engineering</i> >	Dr. B. C. Roy Engineering College, Durgapur	2006-2010 (1 st Div)	Electrical Engineering
Class XII < <i>W.B.C.H.S.E Board, Stream: Science</i> >	Bidhan Chandra Institution, Durgapur	2004-2006 (1 st Div)	Math, Phy, Chem, Bio (op), Beng, Engg
Class X < <i>W.B.B.S.E Board</i> >	Durgapur R.E. College Model School	2004 (1 st Div)	Math, Physical Sci, Bio.Sci, Bio (op), Beng, Engg

Experience Summary (In chronological order):

Designation, Organization, Date From - Date To



Name Of the Institutes	Work Outline
<ul style="list-style-type: none"> Bengal College Of Engineering And Technology For Women (16-07-2013 to 15-01-2014) 	As an Assistant Professor in the department of Electrical Engineering/ Electrical And Electronics Engineering
<ul style="list-style-type: none"> Dr. B. C. Roy Engineering College, Durgapur { 15-01-2014 to till date } 	As an Assistant Professor in the department of Electrical Engineering.

Awards & Recognitions

- The letter of appreciation for spreading awareness and holding Software training workshops regarding “Spoken Tutorial” at Dr. B. C. Roy Engineering College, Durgapur from IIT Bombay.
- The certificate of appreciation for conducting “DrishIT online examination”, Texas Instrument.

Specialization/Research Interest:

Power system, optimization, and power electronics.

Courses taught:

B.Tech: Electrical machine-II, Power Electronics, Power System-III, Power generation and economic, basic electrical engineering / Electrical Machine-II Lab, Power Electronics Lab, Basic Electrical Lab

M.Tech: FATCS

Online Mode of Teaching:

Some example of online study materials:

- https://www.youtube.com/watch?v=WXqOsp-QO04&list=PLu5tDUr_tNyADroyzpH1xCLMfoEuekkih
- https://www.youtube.com/watch?v=DhBeZWoxI3A&list=PLu5tDUr_tNyADroyzpH1xCLMfoEuekkih&index=2
- https://www.youtube.com/playlist?list=PLu5tDUr_tNyC3UU2Ck2U_6HokDVahFAoP
etc

Publications:

Journal:

- Kingsuk Majumdar**, Provas Kumar Roy & Subrata Banerjee (2021) Available Transfer Capability Calculation of Power Systems Using Opposition Selfish Herd Optimizer, IETE Journal of Research, DOI: [10.1080/03772063.2021.1960207](https://doi.org/10.1080/03772063.2021.1960207) (online) (SCI)
- Kingsuk Majumdar**, Provas Kumar Roy and Subrata Banerjee, “Implementation of Multi-Objective Chaotic Mayfly Optimization for Hydro-Thermal- Solar-Wind Scheduling based on Available Transfer Capability problem”, International transactions on electrical energy systems, DOI: <https://doi.org/10.1002/2050-7038.13029> (online) (SCI)

3. **Kingsuk Majumdar**, Provas Kumar Roy and Subrata Banerjee, "FRAMEWORK OF HYBRID RENEWABLE ENERGY WITH CONVENTIONAL POWER GENERATION SCHEDULING: USING NOVEL META HEURISTIC OPTIMIZATION ALGORITHM", The International Journal of Power and Energy Systems (IJPES), 2021 [accepted & in press] [SCOPUS]
4. **Kingsuk Majumdar**, Provas Kumar Roy and Subrata Banerjee, "MULTI-OBJECTIVE CHAOTIC MAYFLY OPTIMIZATION FOR SOLAR-WIND-HYDRO-THERMAL SCHEDULING BASED ON ATC PROBLEM", The International Journal of Power and Energy Systems (IJPES), 2021 [accepted & in press] [SCOPUS]
5. **Kingsuk Majumdar**, Puja Das, Provas Kumar Roy and Subrata Banerjee, "Solving Multi-Objective OPF Problems Using Biogeography Based and Grey Wolf Optimization Techniques", In Proc. of (International Journal of Energy Optimization and Engineering (IJE OE)), Vol. 6, Issue 3, Article 3, 2017 DOI:0.4018/IJE OE.2017070103, Thompsons return, ISSN: 2160-9500

Conference:

1. **Kingsuk Majumdar**, Provas Kumar Roy and Subrata Banerjee, "Available Transfer Capacity Evaluation through BBO and GWO Algorithms", 3rd International Conference on Foundations And Frontiers In Computer, Communication And Electrical Engineering, C2E2, 2016 Taylor & Francis Group, London, ISBN: 978-1-138-02877-7, pp-111-117 (15-16 JAN, 2016, SKFGI, Mankundu, WB, India)
2. **Kingsuk Majumdar**, Provas Kumar Roy and Subrata Banerjee, "Available Transfer Capacity Evaluation through Evolutionary Algorithms", International Conference on Microelectronics, Communication & Computing, MicroCom 2016, 23rd - 25th January, 2016, NIT, Durgapur, ISBN: 978-1-4673-6621-2, pp 1-6, INSPEC Accession Number: 16177657
3. Puja Das, **Kingsuk Majumdar**, Provas Kumar Roy and Subrata Banerjee, "Biogeography Based Optimization Approach for Optimal Power Flow with Reactive loss minimization", International Conference on Innovations in information Embedded and Communication Systems, ICIECS'16, 17-18 Mar, 2016

Supervision of M.Tech / B.Tech Projects:

For Thesis (M. Tech)

1. Suchismita Dutta, Prof. Dr Dola Sinha, **Kingsuk Majumdar**, "IoT BASED TILTING BRIDGE INCORPORATED" 2018-2020, MAKAUT (Uni Roll: 12013418004) [completed]
2. Puja Das, **Kingsuk Majumdar**, "SOLVING MULTI-OBJECTIVE OPTIMAL POWER FLOW PROBLEMS USING DIFFERENT OPTIMIZATION TECHNIQUES", 2014-16, MAKAUT (Uni roll: 12013414007);

Projects:

1. Sumit Kumar Dutta 12001617026; Subhankar Kolay 12001617030; Utkarsh Keshri 12001617017; Supriyo Dey 12001617024; Somnath Dey 12001617037; Sk Tousif 12001617038; **Kingsuk Majumdar**, "SMART LIGHTING SYSTEM AND ELECTRIC CHARGING

- STATION ALONGSIDE HIGHWAY BY USING GREEN ENERGY GENERATION”, 2017-21, MAKAUT.
2. SWETA KUMARI 12001616028; SUDHIR KUMAR MANDAL 12001616032; SANT PALI 12001616055; PRIYABRATA KAR 12001616076; BASO SOREN 12001616115; ANIRBAN DAS 12001616129; **Kingsuk Majumdar**; “SPEED CONTROL OF SINGLE PHASE INDUCTION MOTOR USING ARDUINO”, 2016-20, MAKAUT
 3. Prerna Kumari Saha (12001615063); Saloni Kumari (12001615074); Sarika Suman (12001615075); Sayan Mal (12001615078); Shibam Sarkar (12001615081); Twinkle Kumari (12001616001); Shikha Rani (12001615082); **Kingsuk Majumdar**, “SOLAR CHARGE CONTROLLER”, 2015-19, MAKAUT
 4. Ajay kumar roy 12001614006; Anurag anand 12001614016; kundana kumar 12001614047; malyanil 12001614048; md. Akbar ali 12001614054; **Kingsuk Majumdar**; “Temperature based motor controller”, 2014-18, MAKAUT
 5. Praveen Kumar 12001613072; Rahul Kumar 12001613075; Satish Kumar 12001613093; Pawan Kumar 12001613069; Pulak Chandra Barman 12001613073; Rudrankar Raha 1200161308; **Kingsuk Majumdar**; “Modeling, Analysis and Control of Asynchronous Buck Chopper”, 2013-2017
 6. Abhishek Singh (12001612003), Debasish Ruidas (12001612037), Ekta Kumari (12001612043), Hemant Kumar (12001612045), MD Atif Ahmad (12001612053), MD. Sahil Alam (12001612055), Pranay Krishna Sahay (12001621064), Roushan Chaudhary (12001612073) ; **Kingsuk Majumdar**; “LPG SENSOR INCORPORATING MICROCONTROLLER AND ARDUINO UNO”, 2012-16, MAKAUT
 7. NAYAN CHANDRA (12001611035); NITISH KUMAR (12001611037); PANKAJ KUMAR (12001611038); PAWAN OJHA (12001611039); PRITESH KUMAR (12001611042); **Kingsuk Majumdar**; “DESIGN AND IMPLEMENTATION OF SMART WATER TANK”, 2011-15.

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

Name of the event, duration, Year, Organized by.

Participation in faculty development programmes

Python and its application in Robotic's.	26th June, 2020	TATA Consultancy services.	FDP
Behavioral Remodeling and Use of ICT Tools for Classroom Delivery of Teachers	14th Jan to 19th Jan, 2019	Organized by Dr. B. C. Roy Polytechnic. with EICT IITG	FDP
A short term course on Future trends in wide area based power systems control and protection (WACP 2020).	October 13-17, 2020	Organized by Electrical Engineering department Motilal Nehru National Institute of Technology	STC

		Allahabad, Prayagraj-211004, India.	
AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)"	from 2020-12-26 to 2020-12-30	National Institute of Technology Puducherry	FDP
Modern Trends in Electrical Engineering.	23rd June- 27th June, 2020.	Organized by department of Electrical Engineering, Dr. B. C. Roy Polytechnic.	FDP
National Webinar on “ Scope of Research Post Covid-19”	17th July, 2020	Dr. B. C. Roy Polytechnic	Webinar
Moodle Learning Management System , Spoken Tutorial IIT B	Jan, 2020 semester	Dr B C Roy Engineering College	online Course
National Program on Technology Enhanced Learning, NPTEL SPOC Workshop (East Zone)	1st Feb, 2020	IIT KGP at Royal Bengal Room Saltlake sector V Kolkata	workshop
Mentoring Pedagogy and Teaching for Higher Education (Coordinator)	29 June to 6th July, 2020	E&ICT Academy IIT Guwahati, with BCREC (EE and ME dept)	FDP
Heavy Metal Removal Technologies from Water: Development of Low Cost and Effective Adsorbents	08th January, 2021	Research & Development Cell of Dr. B. C. Roy Polytechnic	National webinar

Organization of events (Dr. B. C. Roy Engineering College)

1. “DrishIT online examination”, Texas Instrument. (at BCREC) 2019
2. Tech-fest committee members (2019,2020)
3. Spoken Tutorial, IIT B courses from (2018 to till date)
4. Orientation Day (a lot of times)

5. Saraswati Puja (member)
 6. Viswakarma Puja (member)
 7. Member of cultural committee during “Shri Dulal Mitra” Auditorium opening program. (2018)
- Etc

Participation in administrative committees (selected)

Name of the post (Convener/Joint Convener/Member secretary/Co-ordinator etc.), Name of the committee, year

1. Dy. SPOC of BCREC
2. The Joint Co-coordinator Massive Open Online Courses (MOOCs), BCREC
3. “Tesla Project Lab” in charge
4. Member of AICTE IDEA LAB work execution committee (EE dept.)
5. MOOCs departmental coordinator
6. Project Coordinator (team members).
7. Ex-The feedback convener. (departmental) [created online platform for students’ feedback]
8. Ex-campusing member of EE department.
9. Tech-Fest (faculty member) (in several years)
10. Ex “Alumni Association, BCREC” member [create the initial platform and handover the same to the existing group].
11. Committee member of Electrical Fault Identification, BCREC

- **Membership of professional bodies:** Associate member (AM1684909) of Institution of Engineer (India).