

# BARUN BANDYOPADHYAY

**Contact:** bbdgc1@gmail.com

**Qualification:** M.Sc.; Post M.Sc.

**Designation:** Assistant Professor in Chemistry

**Teaching Experience (in years):** UG: 18 years PG: 12 years

**Research Experience (in years):** 4 years

**Date of Joining Present Institution:** 15.07.2006

**Institutions/Companies Previously Served:**



Name of Institution/Company	Designation	Tenure	
		From (DD-MM-YYYY)	To (DD-MM-YYYY)
Moulana Azad College, Kolkata	Lecturer in Chemistry	31.08.2002	14.07.2006

**Examinations cleared:** NET-CSIR-

**Specialization/Research Interest:** Theoretical Quantum Many-Body Problems: Coupled Cluster Theory and Its Application

## Awards & Recognitions

1. **Dr. Mrigendranath Ghosh Medal** for securing the highest marks in the 3 years Degree course Examination 1987 in Chemistry Honours
2. **Award from The Jawaharlal Nehru Memorial Fund** for securing the First position in the 3 years Degree course Examination 1987 in Chemistry Honours
3. **The University Gold Medal** for securing First in First Class in the M.Sc. Examination 1989 in Chemistry
4. **The Bardhaman Sammilani Medal** for securing the highest marks in the M.Sc. Examination 1989 in Chemistry

## Courses taught

	B.Sc Honours	M.Sc
Semester-I		Physical Chemistry General I MSCCHEMC103
Semester-II	Physical Chemistry – I, Core-III (CC-3), Code: BSCHCEMC201  Physical Chemistry-I Lab, Core-III (CC-3), Code: BSCHCEMC201	Physical Chemistry General II MSCCHEMC203  Physical Chemistry General : practical MSCCHEMC205
Semester-III	Physical Chemistry – II, Core-VII (CC-7), Code: BSCHCEMC303  Physical Chemistry – II Lab, Core-VII (CC-7), Code: BSCHCEMC303	Advanced Physical Chemistry General MSCCHEMC303  Physical Chemistry Major I MSCCHEMMJE303

		Advanced Physical Chemistry General MSCCHEMC304 Physical Chemistry Major:Practical I MSCCHEMMJE306
Semester-IV	Physical Chemistry – III, Core-X (CC-10), Code: BSCHCEMC403  Physical Chemistry – III Lab, Core-X (CC-10), Code: BSCHCEMC403	Physical Chemistry Major II MSCCHEMMJE403 Physical Chemistry Major III MSCCHEMMJE406 Physical Chemistry Major:Practical II MSCCHEMMJE409 Physical Chemistry Term Paper/Project MSCCHEMC404
Semester-V	Solid State Chemistry, DSE (DSE-1/ DSE-2), Code: BSCHCEMDSE503 Unit-II & Unit-IV	
Semester-VI	Physical Chemistry – IV, Core-XIV (CC-14), Code: BSCHCEMC602  Physical Chemistry – IV Lab, Core-XIV (CC-14), Code: BSCHCEMC602	

## Online Mode of Teaching

### GOOGLE CLASSROOM & E-MAIL

## Publications

### Journals:

1. Debashis Jana, **Barun Bandyopadhyay** and Debashis Mukherjee, Development and applications of a relaxation-inducing cluster expansion theory for treating strong relaxation and differential correlation effects : Theoretical Chemical Acc., (1999) 102 ; 317-327

### Book Chapters:

1. Uttam Sinha Mahapatra, Barnali Dutta, **Barun Bandyopadhyay** and Debashis Mukherjee, (1998), State-Specific Multi-reference Coupled Cluster Formulations : Two Paradigms, Advances in Quantum Chemistry; Volume 30, , Academic Press, USA/UK, pp 163-193; ISBN 0-12-034830-6

## Guidance of M.Sc. Projects

1. **Swagata Mandal** (2016-2017, Durgapur Government College), **Study on Quantum Mechanical Carnot Engine**
2. **Sudeshna Chatterjee** (2016-2017, Durgapur Government College), **Fermentation and Distillation Process of Alcohol**
3. **Riya Saha** (2016-2017, Durgapur Government College), **The New Era of Dye Sensitized Solar Cell**
4. **Susmita Mukherjee** (2017-2018, Durgapur Government College), **Determination of CMC of a**

### surfactant (SDS) by Various Methods

5. Soumen Kumar Dubey (2018-2019, Durgapur Government College), **Artificial Intelligence in Drug Design - The storm before the calm**
6. Subhasree Dey (2019-2020, Durgapur Government College), **Carnot Engine: A Quantum Mechanical Model**

### Participation in faculty development programmes

1. UGC Sponsored Orientation Programme at Academic Staff College, The University of Burdwan from 4<sup>th</sup>. January to 31<sup>st</sup>. January , 2003.
2. afrom 4<sup>th</sup>. December to 24<sup>th</sup>. December, 2007.
3. UGC Sponsored Refresher Course at Academic Staff College, The University of Burdwan from 15<sup>th</sup>. October to 4<sup>th</sup>. November, 2011.
4. UGC Sponsored Refresher Course at Academic Staff College, North-Eastern Hill University, Shillong from 18<sup>th</sup>. March to 7<sup>th</sup>. April, 2013.

### Participation in committees of Durgapur Government College since 2017

1. IQAC (**Member**-2017-18, 2018-19)
2. Admission Subcommittee (**Member**-2017-18, 2018-19, 2019-20)
3. Journal and Publication Subcommittee (**Jt. Convener**-2017-18, 2018-19)
4. Core Committee for the Golden Jubilee Celebration of the College (**Convener**-2018-19, 2019-20)
5. Communique: An Academic Journal of Durgapur Government College (**Editor**-2017-18, 2018-19, 2019-20)
6. Grievance Redressal Cell (**Member**- 2018-19)
7. KNU Sem-II (Backlog) Examination Subcommittee (**Member**-2018-19)
8. AISHE & NIRF Data compilation Cell (**Jt. Convener**-2019-20)
9. College Website Updating Cell (**Member**-2018-19)
10. Service Book Opening & Updating Committee (**Member**-2019-20)