

*Information Brochure for  
Postgraduate Programs in  
Electrical Engineering*



**National Institute of Technology Agartala  
May, 2022**

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### **MESSAGE FROM THE HOD**

**Department of Electrical Engineering  
National Institute of Technology Agartala  
Prof. Priyanath Das**

It is a great pleasure to be a part of the Department of Electrical Engineering of the National Institute of Technology, Agartala. Electrical Engineering Programme at NIT Agartala commenced from the date of its inception formerly in Tripura Engineering College. We have four postgraduate specialization with specific objective to cater the needs of society. We have faculty rich with research expertise and state of art infrastructure to cater the needs of budding researches. The M.Tech scholars during their course of study will have comfortable stay and rich academic, research and industrial exposure.



### **MESSAGE FROM PG COORDINATOR**

**Department of Electrical Engineering  
National Institute of Technology Agartala  
Dr. Nabamita Goswami**

We welcome the budding researches to the Department of Electrical Engineering. We not only monitor their academic and research performance, but also focus on providing industrial internship linked with their placement during their second year course of time in reputed industries. I wish the budding researcher a comfortable stay at NIT Agartala.

## M. Tech Program Offered:

The Electrical Engineering department offers 2 years full time M.Tech degree in the following four specializations:

- M.Tech in Power Electronics & Drives
- M.Tech in Power System Engineering
- M.Tech in Instrumentation Engineering
- M.Tech in Integrated Energy System

The department also offers PhD program in all this areas of specialization. The details of each specializations are given below.

**Head of the Department:** Dr. Priyanath Das [BE (TU); ME (Bengal Engg. College, Shibpur); Ph.D.(Jadavpur University)], e-mail: priyanathdas@yahoo.co.in M-9862472558.

**Post-graduate Programme Co-ordinator:** Dr. Nabamita Goswami [B.Tech (NIT Agartala), M.Tech (NIT Agartala), Ph.D. (NIT Agartala)], Assistant. Professor, email: nabamita08@rediffmail.com.

**Post-graduate Programme Co-Coordinator:** Dr. Arup Ratan Bhowmik [B.Tech (WBUT), M.E (TU), Ph.D (NIT Agartala)], Assistant. Professor, email: arup.ee\_nita@yahoo.com, arup.ee@nita.ac.in.

## M.Tech Course Structure

### FIRST SEMESTER

SL. No.	SUBJECT	Credit	Class hours per week	Marks
1	Subject – 1(Basic Core)	4	4	100
2	Subject – 2 (Core Subject-I)	4	4	100
3	Subject – 3(Core Subject-II)	4	4	100
4	Subject -4 (Elective Paper – I)	4	4	100
5	Subject-5 (Elective Paper – II)	4	4	100
6	Laboratory I	2	3	100
7	Laboratory II	2	3	100
8	Seminar	1	2	100
	<b>Total</b>	<b>25</b>	<b>28</b>	<b>800</b>

### SECOND SEMESTER

SL. No.	SUBJECT	Credit	Class hours per week	Marks
1	Subject – 1(Basic Core)	4	4	100
2	Subject – 2 (Core Subject-I)	4	4	100
3	Subject – 3(Core Subject-II)	4	4	100
4	Subject -4 (Elective Paper – I)	4	4	100
5	Laboratory I	2	3	100
6	Laboratory II	2	3	100
7	Project Preliminary	3	6	100
8	Comprehensive Viva	2	0	100
	<b>Total</b>	<b>25</b>	<b>28</b>	<b>800</b>

**THIRD SEMESTER**

SL	SUBJECT	Credit	Class hours per week	Marks
1	Project and Thesis -1	10	-	100

**FOURTH SEMESTER**

SL	SUBJECT	Credit	Class hours per week	Marks
1	Project and Thesis -2	20	-	300
<b>Total Credit</b>		<b>80</b>	<b>Total marks</b>	<b>2000</b>

<b>Basic Core I-Semester</b>	Advanced Mathematics/ Digital Signal Processing/ Embedded Systems/ Optoelectronic Instrumentation
<b>Basic Core II-Semester</b>	Artificial Intelligence and Expert Systems/ Optimization Technique/ Probability and Statistical Methods

<b>Power Electronics &amp; Drives</b>	
<b>Subject Core - I Semester</b>	Advanced Power Electronics
	Modelling and Analysis of Electrical Machine and Drives
<b>Subject Core - II Semester</b>	Switched Mode Power Supplies
	Advanced Electrical Drives
<b>Instrumentation</b>	
<b>Subject Core - I Semester</b>	Industrial Instrumentation
	Analog Signal Processing
<b>Subject Core - II Semester</b>	Optical Engineering and Laser Instrumentation
	Process Control and Instrumentation
<b>Power System</b>	
<b>Subject Core - I Semester</b>	Power System Operation & Economics
	Power System stability & Control
<b>Subject Core - II Semester</b>	Power System Protection
	Distributed Generation Systems
<b>Integrated Energy System</b>	
<b>Subject Core - I Semester</b>	Renewable Energy
	Energy Conservation
<b>Subject Core - II Semester</b>	Operation & Control of Electrical Energy Systems
	Distributed Generation Systems

<b>Elective Subjects</b>			
1.	Biomedical Instrumentation	10.	Advanced Power System
2.	Advanced Control System	11.	Direct Energy Conversion
3.	Advanced Circuit Design	12.	Energy, Ecology & Environment
4.	Renewable Energy	13.	Fundamentals of Energy Economics
5.	Pulse Width Modulation Techniques	14.	Power Plant Engineering
6.	HVDC Transmission	15.	Heat Transfer

7.	Flexible AC Transmission Systems (FACTS)	16.	Power Generation Transmission & Distribution
8.	Power System Planning	17.	Smart Grid
9.	High Voltage Engineering	18.	Digital Control
<i>Subject Core of any particular specialization may also be opted as an Elective subject by other specialization's students.</i>			

POWER ELECTRONICS & DRIVES		INSTRUMENTATION	
<b>Semester I</b>		<b>Semester I</b>	
<b>Laboratory-I</b>	Power Electronics Lab	<b>Laboratory-I</b>	Instrumentation Lab-I
<b>Laboratory-II</b>	Electrical Machine Lab	<b>Laboratory-II</b>	Digital Signal Processing Lab
<b>Semester II</b>		<b>Semester II</b>	
<b>Laboratory-I</b>	Power Electronics Lab II	<b>Laboratory-I</b>	Instrumentation Lab-II
<b>Laboratory-II</b>	Electrical Drives Lab	<b>Laboratory-II</b>	Optoelectronics and Instrumentation Lab
<b>POWER SYSTEM</b>		<b>INTEGRATED ENERGY SYSTEM</b>	
<b>Semester I</b>		<b>Semester I</b>	
<b>Laboratory-I</b>	Power System Simulation Lab-I	<b>Laboratory-I</b>	Energy Lab-I
<b>Laboratory-II</b>	Power System Protection Lab	<b>Laboratory-II</b>	Power System Simulation Lab
<b>Semester II</b>		<b>Semester II</b>	
<b>Laboratory-I</b>	Power System Simulation Lab-II	<b>Laboratory-I</b>	Energy Lab-II
<b>Laboratory-II</b>	Power Electronics Lab	<b>Laboratory-II</b>	Power Electronics Lab

## Eligibility Criteria for Admission

Admission is carried out through the central counseling like CCMT/CCMN being organized by NIT Jaipur. If seats are lying vacant, then institute admits the student through publication /advertisement by NIT Agartala.

**Scholarship:** Students admitted through CCMT/CCMN are eligible to get the monthly scholarship of Rs.12,400/-- subject to fulfillment of other criteria and financial availability from Ministry of Education, Government of India.

**Course duration:** Two years (Four Semester).

## Evaluation System

- Continuous Evaluation system is followed. Credit based Cumulative Grade Point Average (CGPA) System along with SGPA (Semester Grade Point Average) system is adopted.
- Theory subjects are evaluated as
  - Internal Assessment (30 marks)
  - Mid Term Examination (20 marks)
  - End Term Examination (50 marks).
- Questions are prepared following the Blooms Taxonomy satisfying the NBA pattern.

- Project and Thesis are evaluated by an Evaluation Committee where External Examiners from renowned institutions/organizations/industry like IITs, NITs, IEST, CSIR, IISc etc. are invited.

**Library:** Departmental Library along with Central Library is utilized for B.Tech, M.Tech and Ph.D Courses.

## Publications

- Department has been persistently publishing significant number of publications in SCI journals or high quality peer reviewed journals/transactions with high impact factors and presenting research work in National and International conferences in the relevant domains.
- Also, department has publication works such as patents filed/obtained, Books, Book chapters etc.
- Some of the venerated journals wherein some of the contemporary research works of the department have been published are:
  - *Energy Conservation and Management* (ELSEVIER), *Applied Energy* (ELSEVIER), *Optics Communication* (ELSEVIER), *Optik- International Journal for Light and Electron Optics* (ELSEVIER), *Applied Optics* (OSA), *Journal of Optical Society of America B* (OSA), *Journal of Optical Society of America A* (OSA), *Optics Express* (OSA), *International Journal of Power and Energy System* (ELSEVIER), *Energy* (ELSEVIER), *International Journal of Green Energy* (Taylor & Francis), *IEEE Transaction of Industrial Electronics*, *Energy Resources- Part A (Recovery and Utilization)* (Taylor & Francis), *IET Generation, Transmission and Distribution*, *Sustainable Energy Technology and Assessment* (ELSEVIER), *Applied Energy* (ELSEVIER), *Solar Energy* (ELSEVIER), *IEEE Transaction on Industrial Electronics*, *Applied Physics A* (Springer), *Applied Physics B* (Springer), *Frontier of Energy* (Springer), *Physica Solidi A* (Wiley), *Physica Solidi B* (Wiley), *Optical Engineering* (SPIE) etc.

## Placement and Higher Studies Avenues

The institute is having dedicated training and placement department named Career Counseling Department (CCD) through which students are being provided training, placements.

## Alumni

- PG students, after obtaining their degrees are suitably placed in several reputed academic Institutions/Industries either through on-campus or off-campus recruitment process. Also, a considerable numbers of students get opportunities for higher studies in IITs and NITs or different Research Laboratories/Projects such as CSIR, BARC, DRDO, ISRO etc. Also students are successfully excelling their carriers in abroad also.
- In this department Power Electronics and Drives specialization was started in 2008, Power System and Instrumentation specialization were started in 2010, and Integrated Energy System was started in 2013. Among the outgoing students, around 60% opt their carrier in Industrial Organizations or academia and about 40% join in PhD program in different reputed Institutions.

## A. Specialization : Power Electronics & Drives

**Intake:** 15

**Objective of the course:** The systems and machines of our world depend on power electronics for the ability to run efficiently and sustainably. Power electronics is the application of solid state electronics for the controlled and conversion of electrical power. The specialization aims to develop a depth of understanding on converting and controlling the flow of electrical energy. The course enables students to learn about power electronics converters and also conserving energy by making it possible to transport electricity over a long distance with minimal loss in transmission.

**Area of research:** Electrical machines and drives, Power qualities, Multilevel inverter Topologies, Harmonic elimination techniques, Modular multilevel converter for HVDC application, Power electronics application to renewables, Electric vehicle, Power electronics and its converters, PWM and control, Solar PV inverters.

**Course Co-ordinator:** Dr. R. N. Ray [BE (CU), ME (B.E. College), Ph.D (Engg) (JU), FIE,)] Associate Professor], EE Department.

**Course Co-Coordinator:** Dr. B. Das [B.E (TU), M. Tech (NIT Agartala), Ph.D (Jadavpur University)], Assistant Professor, EE Department.

### Faculty Members involved in the Program:

Sl. No.	Faculty Members	Designation	Subjects taught/Projects guiding
1	Dr. Rup Narayan Ray [BE CU), ME (B.E. College), Ph.D(Engg) (JU), FIE]	Associate Professor	Electrical Machine and Drives, Electrical Drives Lab / Projects
2	Dr. P. N. Das [BE (TU); ME (Bengal Engg. College, Shibpur); Ph.D.(Jadavpur University)]	Professor	HVDC Transmission/ Projects
3	Dr. Ardhendu Saha [BE (CU), M.Tech (CU), Ph.D (IIT, Kharagpur)]	Professor	Opto-Electronics Instrumentation
5	Dr. Subhadeep Bhattacharjee [B.E (EE), MEE (JU), Ph.D (Engg)(JU), FIETE, FIE, SMIEEE]	Associate Professor	Renewable Energy/ Projects
6	Dr. A. K. Jain [B.E (Jabalpur), ME (IIT Kanpur), Ph.D (IIT Kanpur)]	Associate Professor	Artificial Intelligence & Expert Systems/ Projects
7	Ms. Anindita Jamatia [M.E.E.(Bengal Engg. and Science University, Shibpur)]	Assistant Professor	Switched Mode Power Supplies, Power Electronics Lab/ Projects
8	Mr. Abanishwar Chakraborti [B.Tech (NERIST), M.Tech (IIT Kharagpur), PhD (JU)]	Assistant Professor	Projects
9	Dr. Sharmistha Sharma [B.E, M.Tech (TU) , Ph.D. (NIT Agartala)]	Assistant Professor	Projects
10	Dr. Joyashree Das [B.Tech (NIT Agartala), ME (JU), Ph.D (NIT Agartala)]	Assistant Professor	Projects
11	Mr. Prasenjit Debnath	Assistant	Projects



	[B.E (TU), MS (Montana Tech.) USA]	Professor	
12	Mr. Prabir Ranjan Kansari [B.Tech (NERIST), M.Tech (TU)]	Assistant Professor	FACTs/Projects
13	Dr. Bikram Das [B.E (TU) , M.Tech (NIT Agartala), Ph.D (Jadavpur University)]	Assistant Professor	Advance Power Electronics, Power Electronics Lab/Projects
14	Dr. Nivedita Laskar [B.E(TU), M.Tech (TU), Ph.D. (NIT Agartala)]	Assistant Professor	Projects
15	Dr. Nabamita Goswami [B.Tech (NIT Agartala), M.Tech (NIT Agartala), Ph.D. (NIT Agartala)]	Assistant Professor	Opto-Electronics Instrumentation
16	Dr. A. R. Bhowmik [B.Tech (WBUT), M.E (TU), Ph.D (NIT Agartala)]	Assistant Professor	DSP Lab/ Projects

### Laboratory Facilities:



**Power Electronics Lab**



**Electrical Machine Lab**



**Power Electronics Lab -II**



**Electrical Drives Lab**

## B. Specialization : Power System Engineering

**Intake:** 15

**Objective of the course:** The objective of the specialization is to make the students aware about the stable, secure and reliable power system operation under both normal and abnormal conditions. Thus, the specialization offers an in-depth understanding on power systems related subdomains. This specialization incorporates power quality studies, transient stability studies, load flow studies, optimization and application of power system software for different analysis.

**Area of Research:** Deregulated power system, Application of soft computing technique, Optimization techniques, FACTs, Power system protection, Power system planning under smart grid, Demand response, Electric mobility, High voltage engineering, Energy efficient data center, Distribution network.

**Course Co-ordinator:** Dr. A. K. Jain [B.E (Jabalpur), ME (IIT Kanpur), Ph.D (IIT Kanpur)], Associate Professor, EE Department.





**Course Co-Coordinator:** Dr, J. Das [B.Tech (NIT Agartala), ME (JU), Ph.D (NIT Agartala)], Assistant Professor, EE Department.

### Faculty Members involved in the Program:

Sl. No.	Faculty Members	Designation	Subjects taught/Projects guiding
1	Dr. P. N. Das [BE (TU); ME (Bengal Engg. College, Shibpur); Ph.D.(Jadavpur University)]	Professor	HVDC/ Projects
2	Dr. Ardhendu Saha [BE (CU), M.Tech (CU), Ph.D (IIT, Kharagpur)]	Professor	Opto-Electronics Instrumentation/ Projects
3	Dr. A. K. Chakraborty [B.E.E (Hons) , M.Tech (IIT Kharagpur), Ph.D(JU), MIET (UK), MISTE, FIE(I)]	Professor	Operation & Control of Electrical Energy Systems, Power System Protection, Power System Protection Lab/ Projects
4	Dr. Subhadeep Bhattacharjee [B.E (EE), MEE (JU), Ph.D (Engg)(JU), FIETE, FIE, SMIEEE]	Associate Professor	Renewable Energy, Distributed Generation System / Projects
5	Dr. A. K. Jain [B.E (Jabalpur), ME (IIT Kanpur), Ph.D (IIT Kanpur)]	Associate Professor	Artificial Intelligence & Expert Systems, Power System Operation and Economics, Power System Stability and Control, Power System Simulation Lab / Projects
6	Mr. Abanishwar Chakraborty [B.Tech (NERIST ) , M.Tech (IIT Kharagpur), PhD (JU)]	Assistant Professor	Power Electronics Lab/ Projects
7	Dr. Sharmistha Sharma [B.E, M.Tech (TU, Gold Medalist) , Ph.D. (NIT Agartala)]	Assistant Professor	Projects
8	Dr. Joyashree Das	Assistant	Projects

	[B.Tech (NIT Agartala), ME (JU), Ph.D (NIT Agartala)]	Professor	
9	Mr. Prasenjit Debnath [B.E (TU), MS (Montana Tech,) USA]	Assistant Professor	Projects
10	Dr. Nivedita Laskar [B.E(TU), M.Tech (TU), Ph.D. (NIT Agartala)]	Assistant Professor	Projects
11	Dr. Nabamita Goswami [B.Tech (NIT Agartala), M.Tech (NIT Agartala), Ph.D. (NIT Agartala)]	Assistant Professor	Projects
12	Dr. A. R. Bhowmik [B.Tech (WBUT), M.E (TU), Ph.D (NIT Agartala)]	Assistant Professor	Digital Signal Processing/Projects
13	Mr. Diptanu Dey [B.Tech in Electrical & Electronics Engg (Dr. MGR University), M.Tech in Solar & Alternative Energy Engg (Amity University)]	Assistant Professor	Projects
14	Dr. Diptanu Das [B.Tech (NIT Agartala), M.Tech (NIT Agartala), PhD (NIT Agartala)]	Assistant Professor	Projects

### Laboratory Facilities:

	
<b>Power System Simulation Lab-I</b>	<b>Power System Protection Lab</b>
	
<b>Power System Simulation Lab-II</b>	<b>Power Electronics Lab</b>

## C. Specialization : Instrumentation Engineering

**Intake:** 10

**Objective of the course:** Instrumentation is the subfield of electrical engineering that focuses on measurements of process variables (such as temperature, pressure, volume, velocity etc.) in industrial facilities and equipment managements used for automated controls. The course encompasses the knowledge of Signal processing, Optical engineering and laser instrumentation etc. and aims to develop a conceptual and design basis introduction on various Opto-electronics devices.

**Area of Research:** Optoelectronics instrumentation, Industrial instrumentation, Solid state lasers and Nonlinear-optics, Fiber optic sensors, Integrated photonic devices, Fiber optics communications, Micro-processor and its applications, Control system engineering, Industrial electronics, Bio-medical engineering.

**Course Co-ordinator:** Dr. A. Saha [BE (CU), M.Tech (CU), Ph.D (IIT, Kharagpur)], Professor, EE Department.





**Course Co-Coordinator:** Dr. N. Goswami [B.Tech (NIT Agartala), M.Tech (NIT Agartala), Ph.D. (NIT Agartala)], Assistant Professor, EE Department.

### Faculty Members involved in the Program:

Sl. No.	Faculty Members	Designation	Subjects taught/Projects guiding
1	Dr. P. N. Das [BE (TU); ME (Bengal Engg. College, Shibpur); Ph.D.(Jadavpur University)]	Professor	HVDC/ Projects
2	Dr. Ardhendu Saha [BE (CU), M.Tech (CU), Ph.D (IIT, Kharagpur)]	Professor	Opto-Electronics Instrumentation, Optical Engineering and Laser Instrumentation, Analog Signal Processing/ Projects
3	Dr. Subhadeep Bhattacharjee [B.E (EE), MEE (JU), Ph.D (Engg)(JU), FIETE, FIE, SMIEEEE]	Associate Professor	Renewable Energy
4	Dr. A. K. Jain [B.E (Jabalpur), ME (IIT Kanpur), Ph.D (IIT Kanpur)]	Associate Professor	Artificial Intelligence & Expert Systems/ Projects
5	Dr. Sumita Deb [B.E (TU), M.Tech.(TU), Ph.D (NIT Agartala)].	Assistant Professor	Projects
6	Dr. Minakshi Deb Barma [B.E. (TU), M.Tech (NIT Agartala), Ph.D (NIT Agartala)]	Assistant Professor	Projects
7	Dr. Sharmistha Sharma [B.E, M.Tech (TU, Gold Medalist), Ph.D. (NIT Agartala)]	Assistant Professor	Process Control and Instrumentation, Process Control and Instrumentation lab /Projects
8	Dr. Nabamita Goswami [B.Tech (NIT Agartala), M.Tech (NIT Agartala), Ph.D. (NIT Agartala)]	Assistant Professor	Opto-Electronics Instrumentation, Optical Engineering and Laser Instrumentation, Industrial Instrumentation/ Projects
9	Dr. A. R. Bhowmik [B.Tech (WBUT), M.E (TU),	Assistant Professor	Digital Signal Processing, Digital Signal Processing Lab/Projects

	Ph.D (NIT Agartala]		
10	Mr. Diptanu Dey [B.Tech (Dr. MGR University), M.Tech (Amity University)]	Assistant Professor	Projects
11	Dr. Diptanu Das [B.Tech (NIT Agartala), M.Tech (NIT Agartala), PhD (NIT Agartala)]	Assistant Professor	Projects
12	Dr. Jayanta Kumar Rakshit, [B.Tech (Calcutta University), M.Tech (Calcutta University), PhD (NIT Agartala)]	Assistant Professor	Projects
13	Dr. Debasish Neogi [M.Sc (Economics), V.U., (Spl: Econometrics & Statistics), Ph.D (JU), UGC-NET-JRF (Economics), PGDBM (Major: Marketing)]	Professor	Energy Economics

### Laboratory Facilities:

	
<b>Instrumentation Lab - I</b>	<b>Digital Signal Processing Lab</b>
	
<b>Instrumentation Lab -II</b>	<b>Opto-electronics and Instrumentation Lab</b>

## D. Specialization : Integrated Energy System

**Intake:** 5

**Objective of the course:** Electrical energy is universally accepted as an essential commodities for human beings and the subject energy has a multifaceted dimension. Thus, this specialization integrates different facets of energy such as renewable energy, energy conservation, operation and control of electrical energy system, distributed generation, energy economics and planning, environmental aspects etc. to develop an insight in energy system.

**Area of Research:** Energy and renewable power, Distributed power generation, Hybrid power system, Energy conservation, Organic and inorganic solar cell, Semiconductor fabrication, Energy auditing and management, Solar and other renewable power plant design and setup, Concentrated solar power system.

**Course Co-ordinator:** Dr. S. Bhattacharjee [B.E (EE), MEE (JU), Ph.D (Engg)(JU), FIETE, FIE, SMIEEE], Associate Professor, EE Department.

**Course Co-Coordinator:** D. Dey [B.Tech in Electrical & Electronics Engg (Dr. MGR University), M.Tech in Solar & Alternative Energy Engg (Amity University)], Assistant Professor, EE Department.

### Faculty Members involved in the Program:

Sl. No.	Faculty Members	Designation	Subjects taught/Projects guiding
1	Dr. P. N. Das [BE (TU); ME (Bengal Engg. College, Shibpur); Ph.D.(Jadavpur University)]	Professor	HVDC/ Projects
2	Dr. Ardhendu Saha [BE (CU), M.Tech (CU), Ph.D (IIT, Kharagpur)]	Professor	Opto-Electronics Instrumentation
3	Dr. A. K. Chakraborty [B.E.E (Hons) , M.Tech (IIT Kharagpur), Ph.D(JU), MIET (UK), MISTE, FIE(I)]	Professor	Operation & Control of Electrical Energy Systems/ Projects
4	Dr. Debasish Neogi [M.Sc (Economics), V.U., (Spl: Econometrics & Statistics), Ph.D (JU), UGC-NET-JRF (Economics), PGDBM (Major: Marketing)]	Professor	Energy Economics
5	Dr. Subhadeep Bhattacharjee [B.E (EE), MEE (JU), Ph.D (Engg)(JU), FIETE, FIE, SMIEEE]	Associate Professor	Renewable Energy, Distributed Generation System, Energy Conservation, Energy Lab / Projects
6	Dr. A. K. Jain [B.E (Jabalpur), ME (IIT Kanpur), Ph.D (IIT Kanpur)]	Associate Professor	Artificial Intelligence & Expert Systems, Power System Simulation Lab
7	Mr. Abanishwar Chakraborty [B.Tech (NERIST) , M.Tech (IIT Kharagpur), PhD (JU)]	Assistant Professor	Power Electronics Lab
8	Dr. Sharmistha Sharma [B.E, M.Tech (TU, Gold Medalist) , Ph.D. (NIT Agartala)]	Assistant Professor	Projects

9	Dr. Joyashree Das [B.Tech (NIT Agartala), ME (JU), Ph.D (NIT Agartala)]	Assistant Professor	Projects
10	Dr. Nabamita Goswami [B.Tech (NIT Agartala), M.Tech (NIT Agartala), Ph.D. (NIT Agartala)]	Assistant Professor	Opto-electronics Instrumentation
11	Dr. A. R. Bhowmik [B.Tech (WBUT), M.E (TU), Ph.D (NIT Agartala)]	Assistant Professor	Digital Signal Processing
12	Mr. Diptanu Dey [B.Tech in Electrical & Electronics Engg (Dr. MGR University), M.Tech in Solar & Alternative Energy Engg (Amity University)]	Assistant Professor	Direct Energy Conversion, Energy Conservation/ Projects

### Laboratory Facilities:

	
<b>Energy Lab -I</b>	<b>Power System Simulation Lab</b>
	
<b>Energy Lab -II</b>	<b>Power Electronics Lab</b>

## **Contacts:**

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M-9862472558.

**Post-graduate Programme Co-ordinator:** Dr. Nabamita Goswami, Assistant. Professor,  
email: nabamita08@rediffmail.com.

**Post-graduate Programme Co-Coordinator:** Dr. Arup Ratan Bhowmik, Assistant. Professor,  
email: arup.ee\_nita@yahoo.com, arup.ee@nita.ac.in.

*HOD, Course Coordinators along with all Faculty Members of Electrical Engineering Department would like to welcome the students to join in this Post Graduate Programs to excel his/her career in this prestigious Institution -- **National Institute of Technology Agartala***