

# IMTIAZ AHAMMAD

Current Designation: **Assistant Professor**

Department: **Department of Electronics**

Date of Joining: **01-10-2016**

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## 1. Academic Qualifications

Degree	Institution	Year	Subject/Discipline	Remarks
Master of Technology	Calcutta University	2014	Radio Physics and Electronics	Graduated with Distinction

## 2. Specialization and Area of Interests

**Specialization:** Remote Sensing, Communication, Semiconductor devices, Nano Science & Technology.

**Area of Interests:** Application of Remote Sensing, Quantum computing technology, Development and analysis of quantum-scale electronic devices, Application of nanotechnology in electronic systems, Development of advanced sensor technologies.

## 3. Teaching Responsibilities

1. CC-1, Basic Circuit Theory and Network Analysis for UG Course (Under CBCS)
2. CC-3, Applied Physics for UG Course (Under CBCS)
3. CC-5, Semiconductor Device for UG Course (Under CBCS)
4. CC-9, Digital Electronics and VHDL for UG Course (Under CBCS)
5. DSE-1-A-2: Control Systems for UG Course (Under CBCS)
6. CC-5-11-P: Electronic Instrumentation Lab for UG Course (Under CBCS)
7. CC-5-12-P: Microprocessors & Microcontrollers Lab for UG Course (Under CBCS)
8. DSE-5-A-2-P: Control Systems Lab for UG Course (Under CBCS)
9. DSE-5-B-2-P: Power Electronics Lab for UG Course (Under CBCS)
10. DSE-3-A-1: Basic VLSI Design for UG Course (Under CBCS)
11. CC-6-13-P: Communication Electronics Lab for UG Course (Under CBCS)
12. CC-6-14-P: Photonics Lab for UG Course (Under CBCS)
13. DSE-6-A-2-P: Digital Signal Processing Lab for UG Course (Under CBCS)
14. DSE-6-B-2-P: Transmission Lines, Antenna and Microwave Devices Lab for UG Course (Under CBCS)

15. DSC-1, Fundamentals of Circuit Theory and Electronic Devices for UG Course (Under CCF-2022)
16. DSC-2, Operational Amplifier and Digital Systems for UG Course (Under CCF-2022)
17. ELT-IDC, Fundamentals of Electronics for UG Course (Under CCF-2022)
18. DSC- 7, Applied Physics for UG Course (Under CCF 2022)
19. CVAC -4, Domestic Application of Electronics for UG Course (Under CCF 2022)
20. EST 102: Quantum Mechanics for PG Course (Under CBCS)
21. EST 204: Communication for PG Course (Under CBCS) for PG Course (Under CBCS)
22. ESP 202: Digital Circuits, Microprocessors and Microcontroller
23. ESP 301: Device Fabrication and IC Technology for PG Course (Under CBCS)
24. ESE 401: VLSI Design for PG Course (Under CBCS)

#### 4. Teaching Experience:

a) **Assistant Professor**, Department of Electronics and Communication Engineering (ECE), Asansol Engineering College, Kanyapur, Vivekananda Sarani, Asansol, Pin - 713305, West Bengal, India. Since September, 2014 till December 2015.

b) **Assistant Professor**, Department of Electronics, Dinabandhu Andrews College, 54, Raja S.C. Mullick Road, Kolkata- 700 084, University of Calcutta, India. Since October, 2016 till Up to Date.

#### 5. Publications

##### a. Research Papers in Journals

1. ANALYSIS AS A CRITICAL ELEMENT FOR THE QUICK RETRIEVAL AND MANIPULATION OF BIG DATABASES. RANGE, HASH AND ROUND-ROBIN PARTITION, Metszet Journal, Volume 9, issue 7, (July, 2024), 230-238, ISSN: 2061-2710. Author: Imtiaz Ahammad: DOI: [10.27896/METSZET9.7/24](https://doi.org/10.27896/METSZET9.7/24).

##### b. Book chapters

1. 'An Introspective Study of Astronomy and Astronomical instruments in Ancient India' Indian Knowledge System, **Book Chapter**, 64-79, 2025

#### 6. Conferences/Seminars/Symposia/Workshops Attended

1. Actively participated in **5<sup>th</sup> International Conference on "Computers and Devices for Communication (APECS-2012)"** organized by Institute of Radio Physics and Electronics, University of Calcutta on **16<sup>th</sup> December, 2012**.
2. Actively participated in Brain Storming Session on **"Indian Space Science Initiatives (ISSI)"** organized by Institute of Radio Physics and Electronics, University of Calcutta on **12-13 February, 2014**.

3. Actively participated in Faculty Development Program on **“Solid State Electronic Devices”**, held at Vivekananda Seminar Hall, Asansol Engineering College on **1<sup>st</sup> & 2<sup>nd</sup> November, 2016 and 14<sup>th</sup> & 15<sup>th</sup> March 2015.**
4. Actively participated in 2-Days Workshop on **“Intelligent Control”**, held at Asansol Engineering College on **25<sup>th</sup> & 26<sup>th</sup> August 2015.**
5. Actively participated in Two-Day Workshop on **“Remote Sensing of Earth and Atmosphere (RSEA’16)”** organized by IEEE GRSS Kolkata Chapter, at CSCR, ISI on **1-2 March, 2016.**
6. Actively participated in One day Workshop on **“Remote Sensing Applications and Science RSAS 2016”** organized by IEEE GRSS Kolkata Chapter on **17<sup>th</sup> December 2016.**
7. Actively participated in One day Workshop on **“Physics Learning Methodology – Theoretical and Experimental”** organized by Department of Physics, Dinabandhu Andrews College on **8<sup>th</sup> November, 2017.**
8. Actively participated in a 4-Week Induction/Orientation Programme for **“Faculty in Universities/Colleges/Institutes of Higher Education”** organized by Teaching Learning Centre, Ramanujan College, University of Delhi from **June 26 - July 24, 2020.**
9. Actively participated in a short-term course on **“GNSS & SPACE WEATHER”** organized by the Discipline of Astronomy, Astrophysics & Space Engineering, **IIT INDORE** from **14-19 September 2020.**
10. Actively participated in Two-Day State Level Seminar on **“CAS WBHS & OTHER SERVICES FOR COLLEGE EMPLOYEES”** organized by Women’s College, Calcutta on **8<sup>th</sup> & 9<sup>th</sup> June, 2021.**
11. Actively participated in **“the UGC-SPONSORED Faculty Induction Programme (FIP)-6”** organized by Human Resource Development Centre (HRDC), UNIVERSITY OF CALCUTTA from **16<sup>th</sup> November to 17<sup>th</sup> December 2021.**
12. Actively participated in **“Interdisciplinary Subject Refresher Course in Environmental Studies”** organized by UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh from **27 September 2022 to 11 October 2022.**
13. Actively participated in One-week Hands-On Training Programme on **“Fabrication and Characterization of Advanced photovoltaic Devices”** held from **12-18 December, 2022**, organized by Department of Physics, Indian Institute of

Engineering Science & Technology (IEST), Shibpur under the aegis of DST-STUTI programme of Indian Institute of Technology (ISM), Dhanbad-826004.

## 7. Membership in Academic Bodies

- ❖ Member of the **Syllabus Drafting Committee for Electronics (UG)**, Calcutta University, under the Choice Based Credit System (CCF) 2022.
- ❖ **Moderator** for the End Semester Examinations of the B.Tech. and M.Tech. programs in the **Department of Electronics and Communication Engineering (ECE)**, **Aliah University**, for the following sessions: Odd (Autumn) 2017, Even (Spring) 2018, Odd (Autumn) 2018, and Even (Spring) 2019.

## 8. Awards/Honours

Award	Organization	Year	Description
Selected for M.Tech. Fellowship	Indian Space Research Organization (ISRO),	For the Session 2012-13 & 2013-14	Awarded a fellowship under the Indian Space Research Organization's (ISRO) "Space Science Promotion Scheme" for the M.Tech. Course in Radio Physics and Electronics.
Qualified in CSIR NET for JRF in Engineering Science	Council of Scientific & Industrial Research (CSIR), HRDG, Govt. of India	June, 2014	Successfully awarded the Junior Research Fellowship (JRF) under the CSIR Fellowship Scheme, securing an All-India Rank of 99 in the subject of Engineering Sciences.
Qualified in UGC-NET for Assistant professor in Electronic Science	CBSE- UGC NET, Govt. of India	December, 2014	Qualified UGC-NET for Assistant Professor in Electronic Science [UGC Ref no – 34141/ (NET-DEC, 2014)].
Selected for Maulana Azad National Fellowship (MANF) for Ph.D.	University Grant Commission (UGC), Govt. of India	For the Session 2014-15	have been selected for the Maulana Azad National Fellowship for Minority Students to pursue a Ph.D. degree (F1-17.1/2014-15/MANF-2014-15-MUS-WES-34215).

## 9. Administrative Responsibility

- ❖ **Institute Nodal Officer (INO)** of National Scholarship of Govt. of India
- ❖ **Nodal Officer (NO)** of OASIS Scholarship for SC/ST/OBC students of Govt. of West Bengal.
- ❖ **Nodal Teacher (NT)** of SVMCM & K3 Scholarship for Meritorious Student of Govt. of West Bengal.
- ❖ **Nodal Teacher (NT)** of Aikyashree Scholarship for Minority Student of Govt. of West Bengal.
- ❖ Member of Library Sub-Committee
- ❖ Member of Admission & Registration Sub-Committee
- ❖ Member of ICT Sub-Committee
- ❖ Member of Students' Welfare Sub-Committee
- ❖ Member of Backward Class Welfare Sub-Committee
- ❖ Convenor of Scholarship Sub-Committee
- ❖ Member of Sports & Cultural Sub-Committee
- ❖ Member of NAAC (3RD Cycle) Sub-Committee
- ❖ Joint Convenor of NSS Committee