

# Aliah University

## Department of Electronics and Communication Engineering

### Academic Audit

Academic Year: 2024-2025

*Btu* 13/03/2026  
*13.03.2026*  
*13/03/2026*  
*13/03/2026*  
*13-03-2026*



Internal Academic Audit Committee  
Dept. of Electronics and Communication Engg.  
Aliah University, New Town, Kolkata

Checked & Compared

*Btu*

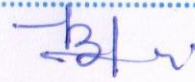
Head

Dept. of Electronics and Communication Engg.  
Aliah University, New Town  
Kolkata-700 160, India

The Academic Audit process of Aliah University focuses on four key functional areas:

1. Academic Management
2. Academic Practices
3. Infrastructure and supportive facilities
4. Initiatives and Supplementation

Checked & Compared



**Head**  
**Dept. of Electronics and Communication Engg.**  
**Aliah University, New Town**  
**Kolkata-700 160, India**

## Academic Management

### Information about HOD/ HOD (Officiating)

- 1] Name: Dr. Sk Babar Ali
- 2] Designation: Associate Professor
- 3] Qualification: PhD. (Engineering)
- 4] Teaching experience (in years): 15 Years
- 5] Industry experience (if any in years): Nil
- 6] Number of teaching hours per week: 26 Hours per week
- 7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet):

Academic year	Number of Research Projects	Number of Publications	Number of Study material developed	Remarks
2024-25	2 (M.Tech Research Project, 1 completed in June 2025 and 01 on going)	03	Nil	Annexure-I (2024-25)

- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	Two-Day National Workshop on Human-Computer Interaction (NW-HCI 2024) Jointly organized by the Dept. of ECE & CSE in Aliah University on 11-12 September 2024	
2024-25	One-Day Workshop cum Seminar on Amateur (HAM) Radio organized by the Dept. of ECE in association with IIC, Aliah University on 24 February 2025	

- 9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity
HoD, Dept. of ECE	HoD	Departmental Head
Purchase Committee, Dept. of ECE	Member	Related to purchase
Purchase Committee, Dept. of CSE	Member	Related to purchase
Departmental committee (DC), ECE	Member	Related to departmental activities
Board of Studies, Dept. of ECE	Member	Academics
BRS, Dept. of ECE	Member	Research Studies

Board of Studies, Dept. of EEN	Member	Academics
Board of Studies, Dept. of CSE	Member	Academics
Anti-Ragging Committee,	Convenor	Related to ragging

10] Other responsibilities (Please specify, add rows if required):

1	University Nodal officer of AISHE, UGC and AUI
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11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

12] Engagement of Teacher with other Institute/university:

1	External member of Audit Team 2024-2025 in the department of Electronics and Computer Science Engineering in Narula Institute of Technology Agarpara West Bengal.
2	Moderation of 7 Papers of B.Tech for Odd and Even Semester Examination of EEE Department of Institute of Engineering and Management Kolkata and Narula Institute of Technology Agarpara West Bengal.

### Annexure-I

#### Number of Publications

##### Journal:

- (1) S Banerjee, M Dhara, H Naskar, B Ghatak, **Sk Babar Ali**, N Das, K. chezyain, D K Das, B.Tudu, A Chatterjee, B Mondal, D Mondal, R Bandyopadhyay, B Tudu, Detection of piperine content in black pepper using a molecular imprinted poly (N, N-dimethylacrylamide) embedded graphite electrode: A machine learning based prediction approach, Journal of Microchemical, vol. 207 no. 111914, (2024).
- (2) S Banerjee, S Ghorai, M Dhara, H Naskar, **Sk Babar Ali**, N Das, P Saha, B.Tudu, A Chatterjee, R Bandyopadhyay, B Tudu, Accurate prediction of piperine content in black pepper using combined CNN and regression modelling with PDMAM@ G electrode and cyclic voltammetry, Journal of Food Composition and Analysis, vol. 141, no. 107355, (2025).
- (3) S Banerjee, S Ghorai, M Dhara, H Naskar, **Sk Babar Ali**, N Das, P Saha, B.Tudu, A Chatterjee, R Bandyopadhyay, B Tudu, Synthesis of HNQ imprinted poly (Methyl acrylate) using hybrid polymerization for the detection of lawsone in henna powder, Journal of IEEE sensor, vol. 25, no.9, (2025).

#### Research project(M.Tech)

Sl. No.	Title	Academic Year	Student Name (Roll No.)	Year of Passing
1	Study of Teager Energy Operator	2024-2025	smita Purkait (CE232002)	2025
2.	Development of capacitive type Sensor for Identify the Adulteration of Milk	2025-26	Anzarul Islam (ECE242015)	Ongoing (26)

Checked & Compared

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**DR. SK. MOINUL HAQUE**

- 1] Name: Prof. SK. Moinul Haque  
 2] Designation: Professor  
 3] Qualification: Ph.D  
 4] Teaching experience (in years): 17  
 5] Industry experience (if any in years): NIL  
 6] Number of teaching hours per week: 18  
 7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet): 03( International Journal)

Academic year	Number of Research Projects	Number of Publications	Number of Study material developed	Remarks
2024-25		03		Annex-I

- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)

- 9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity
Statute revision committee	Convener	Statute related
Research and development cell(RDC)	Member	Research
Academic council of Aliah university	Member	Academic related
DRC, ECE	Convenor	Research
DRC,EE	Member	Research
DRC, Math and Stat	Member	Research
Journal	Member	Publication
MATLAB, Purchase	Chairman	Procurement

- 10] Other responsibilities (Please specify, add rows if required):

1	Lab in charge of Microwave Lab
2	Lab in charge of wireless communication lab

Checked &amp; Compared

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11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

12] Engagement of Teacher with other Institute/university:

1	The University of Tripura
2	

**Annexure-I**

- [1] E. Khan, **SK. M. Haque**, P. Halder, S. Roshani, L. Minz “ A Novel Approach to Analysing and Designing Dielectric- Coated Conducting Conical Antennas with Enhanced Bandwidth”, ETRI Journal, pp., Feb, 2025. doi: 10.4218/etrij.2024-0364 .
- [2] E. Khan, **SK. M. Haque**, MD. A. S. Rahaman, “Design of Non-planar Monopole Antennas with Enhanced Frequency Reduction for Short - Range Wireless Applications”, ‘International Journal of Communication Systems’ 38: e70066, Wiley, March (2025). doi: 10.1002/dac.70066.
- [3] MD. A. S. Rahaman, K. M. Parvez, E. Khan and **SK. M. Haque**, “Compact complementary slot resonator antenna with L-Probe feed excitation for wireless communication”, ‘International Journal of Electronics, Taylor & Francis, January (2025). doi: 10.1080/00207217.2025.2450734.

Checked & Compared

*[Signature]*

**DR. QUAZI. MOHMMAD ALFRED**

- 1] Name: **Dr. Quazi Mohammad Alfred**
- 2] Designation: Associate Professor
- 3] Qualification: **PhD(Engineering)**, M.Tech, B.Tech
- 4] Teaching experience (in years): 23 years
- 5] Industry experience (if any in years): Nil
- 6] Number of teaching hours per week: more than 20 hours (including lectures, tutorial, practical, B.Tech & M.Tech project supervision)
- 7] Number of Research Projects/Publications/Study material developed during the academic year (provide list in separate sheet):

Academic Year	Number of Research Projects	Number of Publications	Number of Study Material Developed	Remarks (Annexure No. for details)
2024-25	nil	Book:Nil Book chapters:01 Journals: 00 Int. Conf.: 02	nil	Annexure-I

- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	(i) Organized a One-Day Workshop cum Seminar on Amateur (HAM) Radio on 24 February 2025 .  (ii) <i>Guest &amp; Jury Member at the Kolkata MSME &amp; Startup Conclave 2025, held on January 15th and 16th, 2025, at the Platinum Jubilee Auditorium, Indian Statistical Institute, Baranagar, Kolkata 700108.</i>	

- 9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity	Remarks (Annexure No. for details)
i) University	<b>Chairman</b>	AUAT 2025	
ii) NIRF & ARIIA Committee	Convener	Applying for NIRF and NIRF-Innovation ranking process.	
iv) Institution Innovation Council (IIC), Aliah University	President	Promotion of Research and Innovation Activity under IIC, Ministry of Education(MoE), GoI	

10] Other responsibilities (Please specify, add rows if required): NIL

11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required): NIL


12] Engagement of Teacher with other Institute/university: NIL

**ANNEXURE-I**

**Books/Book chapter**

1. **A Comprehensive Review on the Cognitive Radio for the Implementation in 5G Wireless Communication for the Development of Healthcare**, R Sultana, JK Ray, QM Alfred, I Ahmed - Industry 5.0 for Smart Healthcare Technologies, 2024.

**Conference:**

(i) Study of BLER and Throughput in the 5G New Radio System Having HSPA Channel and its Application in Telemedicine, JK Ray, S Khatua, QM Alfred, AL Limon,FTabassum, Doctoral Symposium on Human Centered Computing, 2025.

(ii) A Dual Band 2× 2 MIMO Antenna for 5G Communication, I Hussain, QM Alfred, C Goswami - International Conference on Microelectronics , 2024.

Checked & Compared

*[Signature]*

**DR. MD. ASRAFUL SEKH**

- 1] Name: Dr. Md. Asraful Sekh  
 2] Designation: Associate Professor & HoD, ECE  
 3] Qualification: M.Tech., Ph.D.(Tech.)  
 4] Teaching experience (in years):20.5 years  
 5] Industry experience (if any in years): 3 years  
 6] Number of teaching hours per week: more than 20 hours (including lectures, tutorial, practical, B.Tech & M.Tech project supervision)  
 7] Number of Research Projects/Publications/Study material developed during the academic year (provide list in separate sheet):

Academic Year	Number of Research Projects	Number of Publications	Number of Study Material Developed	Remarks (Annexure No. for details)
2024-25	nil	Journal: nil Conference: 01	nil	Annexure-I (2024-25)

- 8]Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	<p><b>One Week Online FDP on “Empowering Academic Research through AI: Tools, Trends &amp; Techniques”</b>, conducted by the Department of AEIE, HITK in association with the IQAC, HITK and Instrument Society of India (ISOI), Bangalore, during June 30 to July 4, 2025</p> <p><b>A five-day International Online Workshop on “Nanostructured Optoelectronic Materials for Future Technologies (NOMFT-2025)”</b>, Organized by the Department of Physics, NIT- Warangal under scheme for promotion of Academic and Research Collaboration (SPARC), Ministry of Education, Govt. of India, 4-8 March, 2025.</p>	

- 9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity	Remarks (Annexure No. for details)
i) Space Allocation Committee	Chairman	Activities related to space/room allotment for various section /departments	Annexure-II (2024-25)

ii) Examination Committee	Member	Examination related matters including purchase of related items	
iii) Revision of Common Engg. Curriculum (UG & PG)	Member	Participating in various meetings for Syllabus & Curriculum related Activities related to university	
iv) BOS, Dept. of ECE	Member	Syllabus revision/modification related	
v) Committee for University foundation Day Celebration	Member	Participated and performed works related to student competition and refreshment/food	
vi) IQAC	Member	Works related to attending meetings, IQAC, scrutiny and selection committee	

10] Other responsibilities (Please specify, add rows if required):

1	Lab In Charge of Optical Communication Lab
2	Member of DSC and DRC of ECE, Supervising 3 PhD Scholars
3	Member, DPC of Chemistry

11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required): NA

1	
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12] Engagement of Teacher with other Institute/university: Nil

### Annexure-I

#### Research Project (M.Tech)

No.	Title	Academic Year	Student Name (Roll No.)

#### Conference Publication

1. 'Different Harvesting Circuits for Triboelectric Nanogenerators for Wearable Applications', Dr. Barnali Ghatak, Dr. Hemanta Naskar, Mr. Sanjoy Banerjee, Mr. Biswajit Dutta, Dr. SK Babar Ali, **Dr. Asraful Sekh**, Dr. Nityananda Das, Prof. Samir Kumar Pal, Prof. Rajib Bandyopadhyay and Prof. Bipan Tudu, The 1st International Conference on AI Sensors & The 10th International Symposium on Sensor Science (AIA/I3S-2024), 1-4 August, 2024, Singapore. <https://sciforum.net/event/aisi3s2024?section=#ImportantNotice>

### Annexure-II

Space Allocation Committee, Memo no. AU/REG/0640/24, dated 24.07.2024

1. Examination Committee - Memo no. AU/REG/0290/22, dated 15.06.2022

Checked & Compared



2. Revision of Common Engg. Curriculum (UG & PG) Committee- Memo no. AU/REG/0104/18, dated 02.02.2018
3. Member of B.O.S. for Electronics & Communication Engineering Department-Memo no. AU/REG/1272/17, dated 01.12.2017
4. University Foundation Day Celebration Committee, Memo no. AU/REG/0155/25, dated 06.02.2025.
5. Internal Quality Assurance Cell- Memo no. AU/REG/0064/22, dated 07.02.2022

Sl. No.	Name of the Committee	Year
1	...	...
2	Revision of Common Engg. Curriculum (UG & PG) Committee	2018
3	Member of B.O.S. for Electronics & Communication Engineering Department	2017
4	University Foundation Day Celebration Committee	2025
5	Internal Quality Assurance Cell	2022

Checked & Compared

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**DR. SK. BABAR ALI**

- 1] Name: Dr. Sk Babar Ali
- 2] Designation: Associate Professor
- 3] Qualification: PhD. (Engineering)
- 4] Teaching experience (in years): 15 Years
- 5] Industry experience (if any in years): Nil
- 6] Number of teaching hours per week: 26 Hours per week
- 7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet):

Academic year	Number of Research Projects	Number of Publications	Number of Study material developed	Remarks
2024-25	2 (M.Tech Research Project, 1 completed in June 2025 and 01 on going)	03	Nil	Annexure-I (2024-25)

- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	Two-Day National Workshop on Human-Computer Interaction (NW-HCI 2024) Jointly organized by the Dept. of ECE & CSE in Aliah University on 11-12 September 2024	
2024-25	One-Day Workshop cum Seminar on Amateur (HAM) Radio organized by the Dept. of ECE in association with IIC, Aliah University on 24 February 2025	

- 9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity
HoD, Dept. of ECE	HoD	Departmental Head
Purchase Committee, Dept. of ECE	Member	Related to purchase
Purchase Committee, Dept. of CSE	Member	Related to purchase
Departmental committee (DC), ECE	Member	Related to departmental activities
Board of Studies, Dept. of ECE	Member	Academics
BRS, Dept. of ECE	Member	Research Studies
Board of Studies, Dept. of EEN	Member	Academics
Board of Studies, Dept. of CSE	Member	Academics
Anti-Ragging Committee,	Convenor	Related to ragging

- 10] Other responsibilities (Please specify, add rows if required):

1	University Nodal officer of AISHE, UGC and AUI
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11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

12] Engagement of Teacher with other Institute/university:

1	External member of Audit Team 2024-2025 in the department of Electronics and Computer Science Engineering in Narula Institute of Technology Agarpara West Bengal.
2	Moderation of 7 Papers of B.Tech for Odd and Even Semester Examination of EEE Department of Institute of Engineering and Management Kolkata and Narula Institute of Technology Agarpara West Bengal.

### Annexure-I

#### Number of Publications

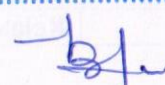
##### Journal:

- (4) S Banerjee, M Dhara, H Naskar, B Ghatak, **Sk Babar Ali**, N Das, K. chezyain, D K Das, B.Tudu, A Chatterjee, B Mondal, D Mondal, R Bandyopadhyay, B Tudu, Detection of piperine content in black pepper using a molecular imprinted poly (N, N-dimethylacrylamide) embedded graphite electrode: A machine learning based prediction approach, Journal of Microchemical, vol. 207 no. 111914, (2024).
- (5) S Banerjee, S Ghorai, M Dhara, H Naskar, **Sk Babar Ali**, N Das, P Saha, B.Tudu, A Chatterjee, R Bandyopadhyay, B Tudu, Accurate prediction of piperine content in black pepper using combined CNN and regression modelling with PDMAM@ G electrode and cyclic voltammetry, Journal of Food Composition and Analysis, vol. 141, no. 107355, (2025).
- (6) S Banerjee, S Ghorai, M Dhara, H Naskar, **Sk Babar Ali**, N Das, P Saha, B.Tudu, A Chatterjee, R Bandyopadhyay, B Tudu, Synthesis of HNQ imprinted poly (Methyl acrylate) using hybrid polymerization for the detection of lawsone in henna powder, Journal of IEEE sensor, vol. 25, no.9, (2025).

#### Research project(M.Tech)

Sl. No.	Title	Academic Year	Student Name (Roll No.)	Year of Passing
1	Study of Teager Energy Operator	2024-2025	smiita Purkait (CE232002)	2025
2.	Development of capacitive type Sensor for Identify the Adulteration of Milk	2025-26	Anzarul (ECE242015)	Islam Ongoing (26)

Checked & Compared



**DR. MD ABDUL ALIM SHEIKH**

1] Name: Dr. MD ABDUL ALIM SHEIKH

2] Designation: Assistant Professor

3] Qualification: PhD

4] Teaching experience (in years): 16 years

5] Industry experience (if any in years): Nil

6] Number of teaching hours per week: 20 Hours per week

7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet):

Academic year	Number of Research Projects	Number of Publications	Number of Study material developed	Remarks
2024-2025	0	0 Journal paper 0 Conference Paper	2	Annexure-1

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic year	Teaching-learning (Seminars/Workshops/lectures/field visits organized)	Activity visits	Remarks
2024-2025	<ul style="list-style-type: none"> <li>Two-days national workshop on "Human-Computer Interaction (NW-HCI 2024)" held on 11-12 September, 2024</li> <li>Organized seminars for students</li> </ul>		

9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity
Saksham Committee	Member	Related to empowerment of women in university campus
Purchase Committee, Dept. of ECE	Member	Related to purchase
Departmental committee (DC), ECE	Member	Related to departmental activities
Board of Studies, Dept. of ECE	Member	Academics

10] Other responsibilities (Please specify, add rows if required):

1	Student Advisor, 4th year, Dept. of Electronics & Communication Engineering
2	Related to NAAC

11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

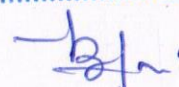
1	<p><b><u>Collaborative and cooperative learning</u></b></p> <p>This is the most common form of active learning, involving group or team work of some kind. Collaborative learning is where the students work together for shared outcomes and are assessed as a group, whereas cooperative learning refers to group work where a common goal is produced, but students are assessed individually. It is easy to apply to any discipline; provides excellent real-world experience in transferable skills for students; and students learn together by sharing strengths.</p>
2	<p><b><u>Active learning</u></b></p> <p>Explore teaching and learning methods that put the student in charge of their own learning through meaningful activities.</p>
3	<p><b><u>Problem based learning</u></b></p> <p>A student-centred approach, where students learn about a subject through understanding and solving problems.</p>

**Annexure-I**

Research project

Sl. No.	Title	Academic Year	Student Name (Roll No.)	Year of Passing
1.	Air Quality Monitoring System: EcoSense	2024-25	Md Mijanur Molla Roll- ECE232011	Completed
2.	Handwritten Digit Recognition using machine Learning	2024-25	Jaka Tasnim ECE242007	Ongoing

Checked & Compared



**SOMSUBHRA TALAPATRA**

1] Name: SOMSUBHRA TALAPATRA

2] Designation: Assistant Professor

3] Qualification: M.E. in ETCE

4] Teaching experience (in years): 20 years at the end of AY2024-25

5] Industry experience (if any in years): 4.25 years

6] Number of teaching hours per week: more than 16 hours (including lectures, tutorial, practical, B.Tech project supervision)

7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet):

Academic year	Number of Research Projects	Number of Publications	Number of Study material developed	Remarks
2024-25				

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	Two workshops.	Annexure-I

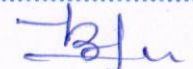
9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity
Board of Studies, Dept. of ECE	Member	Question paper moderations of even and odd semester papers of B.Tech. and M.Tech.
Purchase Committee, Dept. of ECE	Member	Activities related to departmental budget preparation.

10] Other responsibilities (Please specify, add rows if required):

1	Question Paper Setting and Answer Script Evaluation: 1) ECEUGPC03 & ECEUGPE01, Odd Sem, Session 2024-25 2) ECEUGPC17 & ECEPGPC04, Even Sem, Session 2024-25
2	Semester Examination Invigilation Duties : 1) Session 2024-25, Odd Sem, End Term Exam, Total = 21.0 Hrs. 2) Session 2024-25, Even Sem, End Term Exam, Total = 21.0 Hrs.

Checked &amp; Compared



11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

12] Engagement of Teacher with other Institute/university:

#### ANNEXURE-I

Sl. No.	Title of the Seminar/Workshop	Duration	Remarks
1	National Workshop on "Human Computer Interaction (NW-HCI 2024)"	2 days: 11 & 12 Sepetember, 2024	Member of the Program Committee.
2	Workshop cum Seminar on "Amateur (HAM) Radio"	1 day: 24 February, 2025	Member of the Organizing Committee.

Checked & Compared

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**IKBAL ALI**

1] Name: Ikbal Ali

2] Designation: Assistant Professor

3] Qualification: M.Tech.

4] Teaching experience (in years): 15 years

5] Industry experience (if any in years): Nil

6] Number of teaching hours per week: 20 hours (including lectures, tutorial, practical, B.Tech &amp; M.Tech project supervision)

7] Number of Research Projects/Publications/Study material developed during the academic year (provide list in separate sheet):

Academic Year	Number of Research Projects	Number of Publications	Number of Study Material Developed	Remarks (Annexure No. for details)
2020-21	nil	nil	nil	

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2023-24	nil	

9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity	Remarks (Annexure No. for details)
BOS, ECE	Member	Syllabus	
Departmental purchase committee	Member	Preparation of purchase related documents, attending meeting of purchase Committee for procurement of lab equipment etc.	

10] Other responsibilities (Please specify, add rows if required): NIL

1	
2	

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11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required): NIL

1	
2	

12] Engagement of Teacher with other Institute/university: NIL

Checked & Compared

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**ANISUR RAHAMAN**

- 1] Name: Anisur Rahaman  
 2] Designation: Assistant Professor  
 3] Qualification: M.Tech.  
 4] Teaching experience (in years): 12 years  
 5] Industry experience (if any in years): Nil  
 6] Number of teaching hours per week: More than 20 hours (including lectures, tutorial, practical, B.Tech & M.Tech project supervision)  
 7] Number of Research Projects/Publications/Study material developed during the academic year (provide list in separate sheet):

Academic Year	Number of Research Projects	Number of Publications	Number of Study Material Developed	Remarks (Annexure No. for details)
2024-25	Nil	Nil	Nil	

- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized): 2024-2025

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	Workshop Organizing Committee Member – Part of the program committee in “ <b>TWO-DAY NATIONAL WORKSHOP ON HUMAN-COMPUTER INTERACTION (HCI)</b> ”, held on September 11-12,2024	Annexure-1

- 9] Contribution to the growth and development of the University during the academic year: 2024-2025

Committee	Position held	Work done/ Activity	Remarks (Annexure No. for details)
Purchase Committee, Dept of ECE	Member	Facilitated the technical evaluation and procurement process for essential laboratory instrumentation and equipment.	Annexure-2
Board of Studies	Member	Contributed to academic planning, curriculum development, and the review of ECE departmental standards.	Annexure-3
Departmental Exam Committee	Coordinator	Managed the end-to-end execution of semester examinations for the ECE department, ensuring regulatory compliance and academic integrity.	Annexure-4

Computer Networking Committee	Convener	Led committee initiatives to oversee and improve university network infrastructure and connectivity protocols.	Annexure-5
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10] Other responsibilities (Please specify, add rows if required):

1.	<b>Laboratory Development</b> - Up gradation of Lab manuals and maintenance of the Communication System Lab infrastructure.
2.	<b>Student Mentorship</b> - Acted as a Faculty Advisor for a batch of students, providing academic and career guidance.
3.	<b>Accreditation Support</b> - Assisted in data preparation and documentation for NAAC accreditation processes.
4.	<b>University Observer (AUAT)</b> - Appointed as the official University Observer for the <b>Aliah University Admission Test (AUAT)</b> at the <b>JIS College of Engineering, Kalyani.</b> (Annexure-6)

11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

1.	<b>Gamified Assessment</b> - Using platforms like Blooket, online quizzes were conducted on subjects to evaluate internal assessments and increase student engagement and provide instant feedback to both the them.
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12] Engagement of Teacher with other Institute/university: NIL

Checked & Compared

*[Signature]*

**SAIN SHAIKH**

1] Name: Mr. Sain Shaikh

2] Designation: Assistant Professor

3] Qualification: M.Tech.

4] Teaching experience (in years):12 years

5] Industry experience (if any in years): Nil

6] Number of teaching hours per week: 20 hours (including lectures, tutorial, practical, B.Tech &amp; M.Tech project supervision)

7] Number of Research Projects/Publications/Study material developed during the academic year (provide list in separate sheet):

Academic Year	Number of Research Projects	Number of Publications	Number of Study Material Developed	Remarks (Annexure No. for details)
2024-25	nil	Nil	Nil	

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	Field Visit to 1 <sup>st</sup> year engineering student as a part of SIP	

9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity	Remarks (Annexure No. for details)
i) Purchase Committee of ECE dept,	Convenor	Perform various work related to purchase of ECE dept	Annexure-II
ii) Training & Placement Committee	Member	Participating in various meetings	
iii) Member of Board of Studie	Member	Participating in various meetings	
iv) ERP Committee	Member	Participating in various meetings	
vi) Computer and Network Committee	Convenor	Participating in various meetings and Assist in purchasing procedure of IT related product of university	



vii) IIPC	Convener	Conducted Induction Program	
viii) Committee for Health Scheme	Convenor	Perform various work	

10] Other responsibilities (Please specify, add rows if required):

1	<b>Faculty Advisor of 3<sup>rd</sup> yr students</b>
2	<b>Summer Training Coordinator</b>
3	<b>Dept Routine Coordinator</b>
4	<b>1<sup>st</sup> year student incharge</b>
5	<b>Performed as AUTA Observer</b>

11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required): NIL

1	
2	

12] Engagement of Teacher with other Institute/university: NIL

Checked & Compared

*[Handwritten Signature]*

**DR. SABIR ALI MONDAL**1] Name: **Dr. Sabir Ali Mondal**2] Designation: **Assistant Professor**3] Qualification: **PhD.**4] Teaching experience (in years): **10 years**

5] Industry experience (if any in years):

6] Number of teaching hours per week: more than **24 hours** (including lectures, tutorial, practical, B.Tech & M.Tech project supervision)

7] Number of Research Projects/Publications/Study material developed during the academic year (provide list in separate sheet):

Academic Year	Number of Research Projects	Number of Publications	Number of Study Material Developed	Remarks (Annexure No. for details)

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)

9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity	Remarks (Annexure No. for details)
i) Member DAC, ECE	Member	Participating in various meetings	Annexure-II
ii) 1 <sup>st</sup> year coordinator	Member	Participating in various meetings	
iii) Member, NDLI CLUB AU	Member	Participating in various meetings	
iv) Member, DSC/DRC, ECE	Member		
v) Member, Purchase Committee, ECE	Member		
vi) Member, B.O.S. ECE	Member		
vii) Anti Ragging Committee	Member		
viii)			

10] Other responsibilities (Please specify, add rows if required): NIL

1	
2	

11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required): NIL

1	
2	

12] Engagement of Teacher with other Institute/university: NIL

Checked & Compared

*[Handwritten Signature]*

**A.H.M. TOUFIQUE AHMED**

- 1] Name: A.H.M. TOUFIQUE AHMED
- 2] Designation: Assistant Professor (Stage II)
- 3] Qualification: M.Tech., PhD (Pursuing)
- 4] Teaching experience (in years): 9 Years
- 5] Industry experience (if any in years): NA
- 6] Number of teaching hours per week: More than 20 hours (including lectures, tutorial, practical, B.Tech & M.Tech project supervision)
- 7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet):

Academic year	Number of Research Projects	Number of Publications	Number of Study material developed	Remarks
2024-25	NA	5 International (SCI and Scopus indexed) Journals as co-authors	Nil	Annexure-I

- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized):

Academic Year	Seminars/Workshops/lectures/field visits organized	Remarks (Annexure No. for details)
2024-25	1. Attended UGC-Sponsored Online Refresher Course (RC) in Artificial Intelligence, Machine Learning and Data Engineering at UGC MMTTC-Osmania University, Hyderabad during 28 <sup>th</sup> December, 2024 to 11 <sup>th</sup> January, 2025.	Annexure-I

- 9] Contribution to the growth and development of the University during the academic year:

Committee	Position held	Work done/ Activity
1. Borad of Studies (BoS) Committee for ECE Department	Member	Participating in various meetings
2. Common Syllabus Committee	Member	Participating in various meetings
3. Aliah University Publication Committee	Member	Participating in various meetings

10] Other responsibilities (Please specify, add rows if required):

1	1. Acted as Mentor for the AICTE recommended Mentor Mentee Network and conducted various meetings 2. Acted as Departmental Exam co-ordinator for End semester Examinations
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11] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

12] Engagement of Teacher with other Institute/university:

1	
2	

Annexure-I for 2024-25

[7] Number of Research Projects/Publications/ Study material developed during the academic year (provide list in separate sheet):

1. Dasgupta, Samhita, **AHM Toufique Ahmed**, Ipshita Bhattacharjee, Shreya Firdoushi, Don Biswas, Sumani Mukherjee, Bidya Mondal, Rajib Bandyopadhyay, and Bipan Tudu. "Electrochemical detection of indigo carmine in candies using Y2O3 nanoparticles infused graphite electrode." *Journal of Food Composition and Analysis* (2024): 106626
2. Bhattacharjee, Ipshita, Samhita Dasgupta, Shreya Firdousi, Don Biswas, **AHM Toufique Ahmed** Sumani Mukherjee, Rajib Bandyopadhyay, and Bipan Tudu. "A Simple Nano NiMn<sub>2</sub>O<sub>4</sub> Functionalized Graphite Electrode for Electrochemical Detection of Cinnamic Acid in Cinnamon Bark." *IEEE Sensors Journal* (2024).
3. Firdoushi, Shreya, **AHM Toufique Ahmed**, Ipshita Bhattacharjee, Samhita Dasgupta, Hemanta Ghosh, Don Biswas, Rajib Bandyopadhyay, and Bipan Tudu. "Electrochemical detection of erythrosine in candies using a simple nano Y2O3 modified graphite electrode." *Food and Humanity* (2025): 100586.
4. Bhattacharjee, Ipshita, Shreya Firdoushi, Samhita Dasgupta, **AHM Toufique Ahmed**, Don Biswas, Santanu Ghorai, Bhimsen Tudu, Arpitam Chatterjee, Rajib Bandyopadhyay, and Bipan Tudu. "A Novel Molecularly Imprinted 4-Vinyl Pyridine Electrode for Detection and Quantification of Cinnamic Acid in Food Samples." *IEEE Sensors Journal* (2025).
5. Mukherjee, Sumani, Santanu Ghorai, Hemanta Naskar, Sourav Manna, **AHM Toufique Ahmed**, Don Biswas, Samhita Dasgupta et al. "A novel TMS@ G-MIP electrochemical sensor for selective detection of p-coumaric acid in fruits using voltammetry signal and CNN." *Journal of Food Composition and Analysis* (2025): 107925.
6. Certificate of participation in refresher course organized by UGC MMTTC-Osmania University, Hyderabad.

**Academic Practices****Academic Practices (for the academic year: 2024- 25)**

- 1] Total number of teaching-days in the academic year: 217
- 2] Total number of permanent teaching staff: 11+1(DST-IFF)
- 3] Total number of permanent teaching staff with PhD: 06
- 4] Number of programmes offered (please specify):03 (4years B.Tech., 2 years M.Tech and Ph.D)
- 5] Number of sanctioned intake of students and Number of actual admissions:

Programme	Sanctioned intake	Actual admission
B TECH	Regualr-60, Lateral-6 (to take admission in 2 <sup>nd</sup> year)+8(vacant seat in 2 <sup>nd</sup> year)	Regular-58, Lateral-08
M TECH	18	15
Ph.D	10	3

- 6] How many teaching members have attended Orientation Programme/ Refresher Course/ FDP/ Workshop/Training Programme/ Research Methodology Course/Capacity Building Programme etc.: 01
- 7] Number of Orientation Programme/ Refresher Course/ FDP/ Workshop/ Training Programme/ Research Methodology Course/Capacity Building Programme etc. organised by the department: 03
- 8] Number of Training Programme/ Consultancy offered by the department: NONE
- 9] Number of academic collaborations made by the department: NONE
- 10] Innovative practices (please specify): NONE

**Teaching-Learning-Evaluation process (for the academic year: 2024-25)**

- 1] Does teaching members participate in course designing? NO
- 2] Does the department have a structured Board of Studies or similar academic body to design/ expand/ modify course content? YES
- 3] Does the programme follow:
- a. CBCS structure YES
  - b. Elective-based structure YES
  - c. Any other, please specify
- 4] Does the department follow Academic Calendar implemented by the University? YES
- 5] Use of Teaching-Learning tools/ platforms (Please specify)
- a. OHP YES

Internal Academic Audit (2024-2025)

- b. LCD YES
- c. Interactive Boards NO
- d. LMS NO
- e. Any other NO

- 6] Use of ICT in Teaching-Learning-Evaluation
- a. e-books YES
  - b. e-journals YES
  - c. research database/ repositories NO
  - d. IT enabled classroom YES
  - e. Online assignment NO
  - f. Online assessment NO
  - g. Online feedback NO

7] Weekly class hour per course (average): 04 hours per course

8] Whether remedial/ tutorial classes included in class routine? YES

9] Does the programme offered has scope of Internship/Project/Field work/Seminar presentation/ Industrial training? YES

10] Does the department follow progressive evaluation of students? YES

11] Number of students appeared and passed in the academic year:

	APPEARED	PASS OUT
B TECH	50	50
M TECH	03	03

**Research output (for the academic year: 2024-25)**

1] Does the department offer MPhil/ PhD/ Post-Doctoral Programme: (Please specify): YES, Ph.D

2] Number of students/ scholars registered/ enrolled in MPhil/ PhD/ Post-Doctoral Programme (If the answer to Q1 is yes): 3 (Admitted against PhD advertisement 2024-2025)

3] Number of publications in refereed & peer-reviewed journals: 11

4] Number of book/ edited-volume/ book-chapter published with ISBN: 01+03(Conf)

5] Number of patents registered: 03

6] Number of revenue generating events (Consultancy, Training Programme, MDP/ EDP etc.): NONE

7] Number of Seminar/ Conference/ Workshop/ FDP etc organised at State/ National/ International level: 03

8] Number of sponsored research projects: NONE

- a. Completed
- b. Ongoing

Checked & Compared

*[Handwritten Signature]*

- 9] Number of collaborative research projects: None  
 a. Completed  
 b. Ongoing

10] Any innovative research initiative adopted and implemented (please specify): NONE

### Infrastructure & facilities (departmental level)

1] Number of classrooms: 6

2] Number of ICT-enabled classrooms: 1

3] Number of laboratories: 12

4] Availability of licensed software/ databases: OptiSystem 19.0, Ansys HFSS and Matlab, XILINX ISE 14.5, Tanner EDA v16, NETSIM 13.2.

5] Number of tutorial rooms: 1

6] Number of seminar halls: 1

7] Number of rooms for the teaching members: 3 (Including HoD Office)

8] Number of computer/ printer/ scanner available:

- a. In laboratory : 89  
 b. In teachers' enclosure: 12  
 c. For Research scholars: 8  
 d. For Administrative purpose: 5

9] Whether Internet facility available in classrooms/ laboratory/ teachers' enclosure? YES

10] Whether reprographic facility available? YES

11] Number of washroom facility (for male): 04

12] Number of washroom facility (for female): 04

13] Presence of appropriate signage: YES

14] Barrier free environment ensured? YES

### Initiatives and Supplementation for Students:

1] Whether Mentorship (Teacher-driven) for students is in place? YES

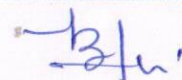
2] Do the students participate in extra-academic activities and pursue Co-curricular activities?  
 YES

3] Does the department arrange Industry-visit/ Industrial lecture/Field-trips/Excursions/  
 Archaeological trips/ Exhibitions etc. for students? YES

4] Does the department arrange seminars/ workshops/skill-development programmes etc. for  
 students? YES

- 5] Does the department arrange programmes for the students focusing Soft-skill and Personality development? YES
- 6] Does the department have any Student Forum/ Club/ Chapter etc.? NO
- 7] Does the department have a students' feedback mechanism in place? YES
- 8] Are the students provided with Training and Placement support? YES
- 9] Do the students receive ICT-based teaching? YES
- 10] Can the students access digital resources offered by the University library? YES
- 11] Please indicate the number of students those have qualified for NET/SET/GATE/GMAT/SLET/WBCS/UPSC or any other Competitive Exam (for the specific period): 02
- 12] Please indicate the number of students those have progressed for higher studies (for the specific period): 18
- 13] Please indicate the number of students those were offered placements by the University (for the specific period): 31

Checked & Compared



Head

Dept. of Electronics and Communication Engg.  
Aliah University, New Town  
Kolkata-700 160, India