

2/7/20

# Aliah University

## Mechanical Engineering Department

### Academic Audit

### 2019-2020



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

# Academic Management

## Information about HOD/ HOD (Officiating)

1] Name: **Dr. Shamim Haidar**

2] Designation: Associate Professor

3] Qualification: Ph D

4] Teaching experience (in years): 16 years

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

6] Number of teaching hours per week: 19

7] Number of Research Projects/Publications/

Study material developed during

The academic year (provide list in separate sheet): 1 National Journal paper

1. MZ Ali, K Zaman, R Haque, M sek, S Haidar, "An Alternative Approach for Sand Casting Process by Replacing of Silica Sand with Stone Dust", May 2020, Indian Science Cruiser

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

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

Committee	Position held	Work done/ Activity
BOS	Chairman	Preside over the curriculum building process
Departmental Purchase Committee	Chairman	Initiate and finalize purchase process

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

1	Prepared Time Table
2	Acted as Organizing Secretary, ICAME 2020 (International Conference)

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

1	
2	

*S. Haidar*  
2/7/2020

**Information about Teaching Members (to be filled by individual Teaching member)**

1] Name: Amitava Dutta

2] Designation: Assistant Professor

3] Qualification: M. Tech.

4] Teaching experience (in years):16 years

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

6] Number of teaching hours per week: 20hrs (Including lectures, tutorials, laboratory classes and project supervisions)

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

I declare that I have developed the study materials of UG subjects (fluid mechanics & fluid machinery) and PG subjects (advanced fluid mechanics and advanced heat transfer)in academic year 2018-2019: I also have updated the Courses/Curriculum Design (UG and PG Course)

8] Contribution to enrich quality of teaching-learning during the academic year:

(Seminars/Workshops/lectures/field visits organized):

1. Participate in seminars conducted by Mechanical Engineering Dept, Aliah University, ICAME 2020 organized by Department of Mechanical Engg., Aliah University from 16th to 18th January,2020
2. Presented conference paper on “Numerical investigation of non-linear Joule heating effects on an electrokinetic flow in a microfluidic channel”, ICAME 2020 organized by Department of Mechanical Engg., Aliah University from 16th to 18th January,2020
3. Presented conference paper on “Numerical study of concentration of bio-analyte by temperature gradient focusing via Joule heating in a microfluidic channel”, ICESD 2020 organized by Department of Mechanical Engg., Jadavpur University from 14th to 15th February,2020.
4. Completed a refresher course on “Instrumentation and Automation” organized by Department of Instrumentation & Electronics Engg., Jadavpur University from 09.12.2019 to 21.12.2019

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

Committee	Position held	Work done/ Activity
Departmental Purchase Committee	Member	1. Preparation of various e-tender documents related to purchase of various machineries and instruments in departmental labs
Board of Studies (Mechanical Engineering department)	Member	1. Discussion in meeting regarding improvement of contents of various subjects and labs.
Space allocation	Member	1. Discussion in meeting regarding allocation and utilization of spaces of Newtown campus.

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

1	In-depth discussion on various opportunities (like GATE, PSUs like IOCL, ONGC, NTPC, BHEL, GAIL, integrated M.S. Ph.D. etc) after B.Tech. and/or M.Tech. degree in Mechanical Engineering
2	

*Anil Kumar Sult*  
02/07/20

**Information about Teaching Members (to be filled by individual Teaching member)**

- 1] Name: Dr. Mukandar Sekh
- 2] Designation: Assistant Professor
- 3] Qualification: PhD
- 4] Teaching experience (in years): 10 Years
- 5] Industry experience (if any in years): NIL
- 6] Number of teaching hours per week: 22
- 7] Number of Research Projects/Publications/ Study material developed during the academic year (provide list in separate sheet): 1 Journal Publication, 1 Book chapter, 1 Conference

1. R Haque, M Sekh, G Kibria, S haidar, “Enhancement of Surface Quality of AISI-D3 Steel after Electrical Discharge Machining (EDM) with Aluminium Powder Mixed in the Dielectric”, International Journal of Engineering and Advanced Technology, Volume-9 Issue-1, October 2019
2. M. Sekh, “Improvement of Profile Accuracy in WEDM—A Novel Technique”, In book: Accuracy Enhancement Technologies for Micromachining Processes, February 2020, DOI: 10.1007/978-981-15-2117-1\_4
3. Ziyauddin Seikh, Mukandar Sekh, Rafiqul Haque “Fabrication and Machining Studies of Al-RHA Metal Matrix Composites (MMCs)”, International Conference on Advances in Mechanical Engineering (ICAME) 2020, Aliah University, Kolkata.

8] Contribution to enrich quality of teaching-learning during the academic year:  
(Seminars/Workshops/lectures/field visits organized): 1 International Conference, ICAME – 2020, held on 16<sup>th</sup> to 18<sup>th</sup> January, 2020, at Aliah University New Town Campus.

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

Committee	Position held	Work done/ Activity
BOS	Chairman	Implemented the Draft modified syllabus by the members

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

1	Making Question papers
2	Evaluation of Answer Scripts

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

1	Question papers setting, Invigilation
2	Evaluation of Answer Scripts

*SMP* 02/07/20

**Information about Teaching Members (to be filled by individual Teaching member)**

1] Name: Dr. Golam Kibria

2] Designation: Assistant Professor

3] Qualification: Ph.D.

4] Teaching experience (in years):8 year

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

6] Number of teaching hours per week: 20 Hours (including lectures, tutorials, practicals and project supervision)

7] Number of Research Projects/Publications/ Study material developed during The academic year (provide list in separate sheet): One UG level project, two PG level project, one edited book, two book chapter, four journal papers and one international conference paper.

Year	UG Level	PG Level
2019-2020	EDM Hole Drilling on Titanium Material	Influence of Wire EDM of Texture Machining and Effect of Surface Characteristics after Texturing By Md Ibrahim Mallick Roll No. MEN 182005
		Machining of an Array of Micro-fins using Wire-EDM and Its Parametric Analysis of Stainless Steel By Mustafiz Ahmed Roll No. MEN 182017

**Publication:**

**(a) Book Edited**

1. Accuracy Enhancement Technologies for Micromachining Processes, Golam Kibria (Eds.), Bijoy Bhattacharyya (Eds.), Book Series: Lecture Notes in Mechanical Engineering, Springer Nature Singapore Pte Ltd, 2020, ISBN 978-981-15-2116-4, eBook ISBN: 978-981-15-2117-1, DOI: 10.1007/978-981-15-2117-1.

**(b) Book Chapter**

1. G. Kibria, T.D. Sherpa, I. Shivakoti and B.B. Pradhan, Electrical Discharge Micromachining with Sustainable Dielectrics, Book- Sustainability modeling in engineering: A multi-criteria perspective”, Editors: Dr.Prasenjit Chatterjee, Dr.MortezaYazdani, Prof. (Dr.) Shankar Chakraborty, 2019, Published by World Scientific Publishers, Singapore, 2019, ISBN: 978-981-3276-32-1, DOI: 10.1142/11157.



2. Golam Kibria, B. Doloi, B. Bhattacharyya, Improvement in Surface Finish and Geometrical Accuracy by Laser Micro-turning, In: Accuracy Enhancement Technologies for Micromachining Processes, Golam Kibria (Eds.), Bijoy Bhattacharyya (Eds.), Book Series: Lecture Notes in Mechanical Engineering, Springer Nature Singapore Pte Ltd, 2020, ISBN 978-981-15-2116-4, eBook ISBN: 978-981-15-2117-1, DOI: 10.1007/978-981-15-2117-1, pp. 121-147.

**(c) Journal Papers:**

1. I. Shivakoti, G. Kibria, P. M. Pradhan, B. B. Pradhan, A. Sharma, ANFIS Based Prediction and Parametric Analysis during Turning Operation of Stainless Steel 202, Materials and Manufacturing Processes Vol. 34, Issue 1, pp. 112-121, 2019.
2. I. Shivakoti, G. Kibria, B.B. Pradhan, Predictive Model and Parametric Analysis of Laser Beam Marking on Gallium Nitride Material Using Diode Pumped NDYAG Laser, Optics and Laser Technology, Vol. 115, pp.58-70, 2019.
3. O. F. Biswas, A. Sen, G. Kibria, B. Doloi, B. Bhattacharyya, Experimental Analysis of Fiber Laser Milling Process for Generating Microchannel on Zirconia (ZrO<sub>2</sub>), Materials Today: Proceedings Vol. 18, 2019, pp. 3566–3574.
4. R. Haque, G. Kibria, M. Sekh, S. Haidar, Enhancement of Surface Quality of AISI-D3 Steel after Electrical Discharge Machining (EDM) with Aluminium Powder Mixed in the Dielectric, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, 2019, pp. 5596-5601.

**(d) International Conference Papers:**

1. O. F. Biswas, A. Sen, G. Kibria, B. Doloi, B. Bhattacharyya, Experimentation and Analysis of Spiral Micro-Grooving Process on Aluminium Using Pulsed Fiber Laser, Proceedings of the International Conference on Advancements in Mechanical Engineering (ICAME 2020) held at Aliah University, Kolkata during 16 to 18 January 2020. "e-ISBN 978-81-943641-6-0"

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

1. Organized 8th Mechanical Day on 26September 2019. 220 students, 20 Faculties were participated.

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

Committee	Position held	Work done/ Activity
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Departmental Purchase Committee (DPC)	Convener	1. Preparation of various e-tender documents related to purchase of various machineries and instruments in departmental labs 2. Preparation of SP1 and SP2, specifications of machines, and pre-bid meeting discussion
Departmental Research Committee (DRC)	Coordinator	1. Preparation of requisition of admission of PhD students 2. Progress report seminar presentation 3. Interviewing the candidates who qualify written exam as well as AURET exempted candidates 4. Verification of documents of PhD candidates before final admission
Board of Studies (Mechanical Engg. Department)	Member	1. Discussion in meeting regarding improvement of contents of various subjects and labs. 2. Discussion of need of faculty (guest / permanent)

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

1	Advisements for their future / career in higher studies in India and abroad
2	In-depth discussion on various opportunities (like GATE, PSUs like IOCL, ONGC, NTPC, BHEL, GAIL, integrated M.S. Ph.D. etc) after B.Tech. and/or M.Tech. degree in Mechanical Engineering

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

1	
2	

*A. P. Singh*  
02/07/20

**Information about Teaching Members (to be filled by individual Teaching member)**

- 1] Name : Sunny Akhtar
- 2] Designation : Assistant Professor
- 3] Qualification : M.E.
- 4] Teaching experience (in years) : 7yrs
- 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) : Nil

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized) :02

*Workshop on July 12, 2019 in Augmented Reality and IoT (Industry 4.0)*

*ICAME 2020: dt. 16-18/01/2020 (Organizing Member)*

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

Committee	Position held	Work done/ Activity
AICTE Affairs Committee	Convenor	Conducting AICTE approval process
Institute Induction Programme Cell	Member	Conducting Student Induction Program
Board of Studies (Mechanical Engg. Department)	Member	1. Discussion in meeting regarding improvement of contents of various subjects and labs.
Purchase Committee (Electrical Engg. Dept.)	Member	1. Discussion related to purchase of various machineries and instruments for the laboratories in Electrical Engg. Dept.
Purchase Committee (Mechanical Engg. Dept.)	Member	1. Discussion related to purchase of various machineries and instruments for the laboratories in Mechanical Engg. Dept.

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

1	Question papers setting, Invigilation and Answer Scripts evaluation
2	Counseled of B.Tech. students in Mechanical Engineering for their future / career in various opportunities like GATE, PSUs (like IOCL, ONGC, NTPC, BHEL)/ higher studies like M.Tech., M.S., PhD.

11] BestPracticesinteaching&academic-administrationintroducedinthedepartmentinthe academic year (Please specify, add rows if required):

1	
2	

*Sunny Akhtar*  
*02/07/2020*

**Information about Teaching Members (to be filled by individual Teaching member)**

1] Name: Mr. Rafiqul Haque

2] Designation: Assistant Professor

3] Qualification: M.E

4] Teaching experience (in years): 13 Years

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

6] Number of teaching hours per week: 22 Hours (including lectures, tutorials, practicals and project supervision)

7] Number of Research Projects/Publications/ Study material developed during The academic year (provide list in separate sheet): 1 International Journal Paper, 1 National Journal Paper, 3 International Conferences and 2 PG level projects,

**Publication:**

**Journals:**

1. R. Haque, G. Kibria, M. Sekh and S. Haidar, 'Enhancement of Surface Quality of AISI-D3 Steel after Electrical Discharge Machining (EDM) with Aluminium Powder Mixed in the Dielectric', International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, pp. 5596-5601, 2019.
2. Mir Zeeshan Ali, Md Kamaruzzaman, R. Haque, M. Sekh and Shamim Haidar, "An Alternative Approach for Sand Casting Process by Replacing of Silica Sand with Stone Dust", Indian Science Cruiser (ISSN : 0970-4256), Vol. 34 No.3, pp. 14-22, 2020.

**National/International Conference Papers:**

5. Z.Seikh, M. Ali Shah, R. Haque, S. Mukherjee, Md.K. Zaman, M. Sekh, "Fabrication and Machining Studies of Al-RHA Metal Matrix Composites (MMCs)", Proceedings of the International Conference on Advancements in Mechanical Engineering (ICAME 2020), Aliah University, Kolkata, e-ISBN: 978-81-943641-6-0, January 16 to 18 2020, pp. 260-267.
6. Mir Zeeshan Ali, Shamim Haidar, Md.K. Zaman, R.Haque, M. Sekh, "Using Stone Dust as Green Alternative to Silica Sand for Casting in Foundries", Proceedings of the International Conference on Advancements in Mechanical Engineering (ICAME 2020) held at Aliah University, Kolkata during 16 to 18 January 2020.
7. Sarfaraj Ansary, Shamim Haidar, Sajed Ali Molla, Rafiqul Haque, "A Critical Review of Orthopaedic and Dental Implant Materials", Proceedings of the International Conference on Advancements in Mechanical Engineering (ICAME 2020) held at Aliah University, Kolkata during 16 to 18 January 2020.

Year	PG Level
2019-2020	Powder mixed Electrical Discharge Machining of EN-19 Workpiece with Copper-Tungsten Electrode By Asif Iqbal Khan (Roll No. MEN182010)
	Experimental Study of Process Parameters for MRR and Surface Roughness by PMEDM Process on Ti-6Al-4V Alloy By Enamul Sk (Roll No. MEN182003)

Contribution to enrich quality of teaching-learning during the academic year:

(Seminars/Workshops/lectures/field visits organized):

1. Conducted an International Conference on Advancements in Mechanical Engineering (ICAME – 2020) which was organized by our Department i.e Dept. Of Mechanical Engg., Aliah University, Kolkata during 16th to 18th January, 2020 at our university premises. I was assigned to act as a Convenor of that conference. More than 200 delegates have been participated.

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

Committee	Position held	Work done/ Activity
Hostel Management Committee (HMC)	Member	1. Acted as Warden of Boy's Hostel, Newtown Campus 2. Actively worked for taking care of the students of Boy's hostel daily life problems
Computer Purchase Committee	Member	Preparation of various e-tender documents related to purchase of Computers and Laptops for our University and also discussed various issues related to computer purchasing

Special Committee for Departmental Laboratories	Member	Looked after the different aesthetics of departmental laboratories equipments
Training & Placement Cell Committee	Member	Looking after the different issues related to placement of our students and also acted as the departmental co-ordinator
Board of Studies (Mechanical Engg. Department)	Member	1. Discussion in meeting regarding improvement of contents of various subjects and labs. 2. Discussion of need of faculty (guest / permanent)
Student's Welfare Committee	Member	Acted as an active member of the Student's welfare related issues.

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

1	Preparing question papers for the semester examination and Answer script evaluation
2	Counselled of B.Tech. and M.Tech. students in Mechanical Engineering for their future / career in higher studies in India and abroad
3	In-depth discussion on various opportunities (like GATE, PSUs like IOCL, ONGC, NTPC, BHEL, GAIL, integrated M.S. Ph.D. etc) after B.Tech. and/or M.Tech. degree in Mechanical Engineering

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

1	Taken remedial classes for the weak students
2	

*22/07/2020*  
*02/07/2020*

**Information about Teaching Members (to be filled by individual Teaching member)**

- 1] Name: Dr. Subha Mondal
- 2] Designation: Assistant Professor
- 3] Qualification: PhD
- 4] Teaching experience (in years): 14 years
- 5] Industry experience (if any in years):
- 6] Number of teaching hours per week: 20
- 7] Number of Research Projects/Publications/ Study material developed during the academic year (provide list in separate sheet): 2 SCI Journal publications, 1 Book chapter

Research paper Published:

**SCI Journal:**

1. **Mondal S, De S** (2019, July) Waste heat recovery through organic flash cycle (OFC) using R245fa–R600 mixture as the working fluid. Clean Techn Environ Policy 21, 1575–1586. <https://doi.org/10.1007/s10098-019-01724-x>
2. **Mondal S, Datta S, De S** (2020, March) Auxiliary power through marine waste heat recovery using a CO<sub>2</sub>-organic cascading cycle. Clean Techn Environ Policy 22, 893–906. <https://doi.org/10.1007/s10098-020-01831-0>

**Book chapter Published**

1. **Mondal S, De S (2020, January)** Power and Other Energy Utilities From Low Grade Waste Heat – Novel Technologies to Reduce Carbon Footprint. Encyclopedia of Renewable and Sustainable Materials 3, 667-677. <https://doi.org/10.1016/B978-0-12-803581-8.11037-9>

**Conference paper published**

1. Sahana S, De S, **Mondal S**. Analysis of a low-grade heat driven trilateral cycle with single-stage impulse turbine. ICESD 2020, Jadavpur University-Kolkata.

8] Contribution to enrich quality of teaching-learning during the academic year:  
(Seminars/Workshops/lectures/field visits organized): Acted as treasurer in ICAME 2020

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

Committee	Position held	Work done/ Activity
BOS	Member	Partly drafted the modified syllabus to introduce CBCS
Departmental representative in engineering common syllabus curriculum committee	Member	Take part in formulation of uniform course curriculum
DRC	Member	Monitoring
Departmental committee for implementing NAAC	Convener	Look into departmental matter related to NAAC

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

1	Preparing question paper and Answer script evaluation
2	

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

1	
2	

*Subhr Mondal  
2/07/2020*



**Information about Teaching Members (to be filled by individual Teaching member)**

- 1] Name: Mr. Shahanwaz Khan
- 2] Designation: Assistant Professor (Stage I)
- 3] Qualification: M. Tech.
- 4] Teaching experience (in years): 10 years
- 5] Industry experience (if any in years): 4 Years
- 6] Number of teaching hours per week: 22 hrs (Including lectures, tutorials, laboratory classes and project supervisions)
- 7] Number of Research Projects/Publications/Study material developed during the a

**Publications:**

**International Journal:**

**Shahanwaz Khan**, RajsekharPanua, Probir Kumar Bose. The impact of combustion chamber configuration on combustion and emissions of a single cylinder diesel engine fuelled with soybean methyl ester blends with diesel. *Renewable Energy* 2019; 143: 335–351. <https://doi.org/10.1016/j.renene.2019.04.162>.

**Shahanwaz Khan**, Probir Kumar Bose, RajsekharPanua. Numerical analysis to explore the influence of swirl ratio on combustion and emission of diesel engine. *Proceedings of International Conference on Energy and Sustainable Development*, Jointly organized by Jadavpur University and The Institution of Engineers, India, February 14-15, 2020.

**Study material developed:**

I declare that I have developed the study materials of UG subjects (Thermodynamics and I C Engines) and PG subjects (Jet Propulsion and Principles of Combustion) in academic year 2020-2021: I also have updated the Courses/Curriculum Design (UG and PG Course).

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

1.

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

Committee	Position held	Work done/ Activity
Anti-Ragging Squad	Jt. Convenor	1. Arrange committee meeting and drafting resolution of meeting which was resolved after

		threadbare discussion in the meeting.
Board of Studies (Mechanical Engineering Department)	Member	1. Discussion in meeting regarding improvement of contents of various subjects and laboratories.
Institute Induction Programme Cell	Member	1. Organize students' induction programme for newly admitted Engineering students.
Departmental Asset Management Committee	Convenor	1. Arrange committee meeting and drafting resolution of meeting which was resolved during discussion in the meeting.
Purchase Committee (Civil Engineering)	Member	1. Preparation of various e-tender documents related to purchase of various machineries and instruments in Civil Engineering laboratories.

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

1	In-depth discussion on various opportunities (like GATE, PSUs such as IOCL, ONGC, NTPC, BHEL, GAIL, integrated M.S. Ph.D. etc) after awarding B.Tech. and/or M.Tech. degree in Mechanical Engineering.
2	

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

1	
2	

  
02/07/20

## Academic Practices

### Academic Practices (for the academic year: 2019-2020)

- 1] Total number of teaching-days in the academic year: 198
- 2] Total number of permanent teaching staff: 08
- 3] Total number of permanent teaching staff with PhD: 04
- 4] Number of programmes offered (please specify): B.Tech, M.tech and PhD
- 5] Number of sanctioned intake of students and Number of actual admissions:

B.Tech	Intake capacity		Actual admission
	Regular	60	39 (37male +02 Female)
	Lateral	30	30
M. Tech		18	18 (16Male+02 Female)

6] How many teaching members have attended Orientation Programme/ Refresher Course/ FDP/ Workshop/ Training Programme/ Research Methodology Course/ Capacity Building Programme etc.: 05

7] Number of Orientation Programme/ Refresher Course/ FDP/ Workshop/ Training Programme/ Research Methodology Course/ Capacity Building Programme etc. organised by the department: 1 International conference

8] Number of Training Programme/ Consultancy offered by the department:

9] Number of academic collaborations made by the department:

10] Innovative practices (please specify):

### Teaching-Learning-Evaluation process (for the academic year: 2019-2020)

1] Does teaching members participate in course designing?

Yes

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 (For UG only) ✓
- b. Elective-based structure ✓
- 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 ✓

- b. LCD
- c. Interactive Boards
- d. LMS
- e. Any other: Through Zoom platform Due to COVID

6] Use of ICT in Teaching-Learning-Evaluation

- a. e-books
- b. e-journals
- c. research database/ repositories
- d. IT enabled classroom
- e. Online assignment: Yes
- f. Online assessment: Yes
- g. Online feedback

7] Weekly class hour per course (average): 35

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:

### **Research output (for the academic year: 2019-2020)**

1] Does the department offer MPhil/ PhD/ Post-Doctoral Programme: (Please specify):  
M.Tech & PhD

2] Number of students/ scholars registered/ enrolled  
in MPhil/ PhD/ Post-Doctoral Programme (If the answer to Q1 is yes): 02 In PhD

3] Number of publications in refereed & peer-reviewed journals: 09

4] Number of book/ edited-volume/ book-chapter published with ISBN: 1 Edited book +3Book chapter

5] Number of patents registered: Nil

6] Number of revenue generating events (Consultancy, Training Programme, MDP/ EDP etc.): Nil

7] Number of Seminar/ Conference/ Workshop/ FDP etc organised at State/ National/ International level: 1 International level

8] Number of sponsored research projects: Ni;

- a. Completed
- b. Ongoing

9] Number of collaborative research projects: 02

- a. Completed: 1
- b. Ongoing: 1

10] Any innovative research initiative adopted and implemented (please specify):

### **Infrastructure & facilities (departmental level)**

1] Number of classrooms: 07

2] Number of ICT-enabled classrooms: Nil

3] Number of laboratories: 10

4] Availability of licensed software/ databases: Nil

5] Number of tutorial rooms: Nil

6] Number of seminar halls: Nil

7] Number of rooms for the teaching members: 02

8] Number of computer/ printer/ scanner available:

- a. In laboratory
- b. In teachers' enclosure ✓
- c. For Research scholars
- d. For Administrative purpose

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

In teacher's enclosure and some specific laboratory

10] Whether reprographic facility available? Yes

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

12] Number of washroom facility (for female): 02

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/ Archeological trips/ Exhibitions etc. for students? Some times

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

5] Does the department arrange programmes for the students focusing Soft-skill and Personality development? No

6] Does the department have any Student Forum/ Club/ Chapter etc.? No

7] Does the department have a students' feedback mechanism in place? No

8] Are the students provided with Training and Placement support? Yes

9] Do the students receive ICT-based teaching? No

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): No data is available with the department

12] Please indicate the number of students those have progressed for higher studies (for the specific period): No data is available with the department

13] Please indicate the number of students those were offered placements by the University (for the specific period).

#### Summary of departmental members

Year	No. of Teacher	No. of Technical Assistant	No. of Office Staff (Group-C)	No. of Office Staff (Group-D)
2019-2020	08	03	Nil	Nil

*S. A. Aidan*  
2/7/2020



DEPARTMENT OF MECHANICAL ENGINEERING  
ALIAH UNIVERSITY  
Advancement of Education and Culture