



Aliyah University

Mechanical Engineering Department

Academic Audit 2021 -2022

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

Information about HOD/ HOD (Officiating)

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

2] Designation: Associate Professor

3] Qualification: Ph D

4] Teaching experience (in years): 18 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): Publication: 1 International Journal

ZiyauddinSeikh ,SandipKunar, RafiqulHaque, Shamim Haidar, MukandarSekh; **WEDM Machining Performance of Al Based Metal Matrix Composites Reinforced with Rice Husk Ash**; February 2022 Materials Science Forum 1048

DOI: 10.4028/www.scientific.net/MSF.1048.261

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

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
12/7/22

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: 21hrs (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):
 1. 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 2020-2021: I also have updated the Courses/Curriculum Design (UG and PG Course).
 2. Published a journal paper on “Microfluidic concentration enhancement of bio-analyte by temperature gradient focusing via Joule heating by dc plus ac field: a numerical approach”
Journal Name: Int. Journal of thermal science and engineering application Date of publication 23/02/2021, 1st and corresponding author
- 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/fieldvisitsorganized):
 1. Two Weeks Online FDP on “Manufacturing Technology Research and Management (MTRM)”, organized by the Department of Mechanical Engineering, Aliah University, Kolkata, West Bengal, India organized from 2nd August to 14 August 2021
- 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	

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	

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

1	
2	

Amrita ✓
12/08/22

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

1] Name: Mukandar Sekh

2] Designation: Assistant Professor

3] Qualification: PhD

4] Teaching experience (in years): 13 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): 2 Journal Papers

1. Ziyauddin Seikh, Sandip Kunar, Rafiqul Haque, Shamim Haidar, Mukandar Sekh*, “WEDM Machining Performance of Al Based Metal Matrix Composites Reinforced with Rice Husk Ash”, Materials Science Forum , Volume 1048, 2022, pp-261-269

2. Mukandar Sekh, Ziyauddin Seikh, Souren Mitra, Soumya Sarkar, Bijoy Bhattacharyya, “Experimental investigations of wire lag phenomena on wire electrical discharge machining of M2 tool steel”, Journal of Materials Today: Proceedings, Volume 49, Part 5, 2022, Pages 1303-1311.

8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized): Organized a National Seminar (PK Nag Memorial Lecture on 07.04.2016

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

Committee	Position held	Work done/ Activity
BOS	Member	Partially Drafted the modified syllabus by the members

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

1	
2	

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

S.M.
12/07/22

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):10 year

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

6] Number of teaching hours per week: 20Hours (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, twelve journal papers.

Year	UG Level	PG Level
2021-2022	Study of Laser Marking on SS304 Material	NIL

Publication:

(a) Journal Papers:

1. ZiyauddinSeikh, Abu Huraira Biswas, Md Kamaruzzaman, RafiqulHaque, Golam Kibria, ShamimHaidar, MukandarSekh, Density, hardness and wear responses of aluminium-copper-magnesium alloys, Materials Today: Proceedings, Volume 47, Part 10, 2021, Pages 2358-2363.
2. S. Kunar, R. Kumar, S.K. Dash, G. Kibria, Bh.V. Prasad, Influence of maskless electrochemical micromachining process parameters during fabrication of complex micropattern, Materials Today: Proceedings, 2021, 47, pp. 2426–2430.
3. S. Kunar, G. Kibria, Improvement in performance criteria of varactormicropattern by pulsed maskless electrochemical micromachining, Materials Today: Proceedings, Volume 47, 2021, pp. 2247-2252.

4. S. Kunar, G. Kibria, Influence of maskless electrochemical micromachining process parameters during microtexturing, *Materials Today: Proceedings*, Volume 47, Part 10, 2021, Pages 2379-2383.
5. Kunar, S.; Tiwary, A. P.; Kibria, G.; Prasad, Bh. V., Investigation into Machining Accuracy of Micro Circular Pattern Fabricated by Maskless Electrochemical Micromachining, *Journal of Engineering Science & Technology Review* . 2021, Vol. 14 Issue 4, p99-104.
6. RafiqulHaque, MukandarSekh, Golam Kibria, ShamimHaidar, Improvement of Surface Quality of Ti-6Al-4V Alloy by Powder Mixed Electrical Discharge Machining using Copper Powder, *FactaUniversitatis*, series: Mechanical Engineering, (Accepted, online)
7. RafiqulHaque, MukandarSekh, Golam Kibria and ShamimHaidar, "Comparative Study of Parametric Effects on the Performance of Simple and Powder Mixed EDM using Aluminium and Graphite Powder on Inconel X750 Alloy", *Materials Today: Proceedings*, Volume 46, Part 17, 2021, Pages 8366-8373.
8. Shivakoti, I., Kalita, K., Kibria, G., Sharma, A., Pradhan, B.B., Ghadai, R.K., Parametric analysis and multi response optimization of laser surface texturing of titanium super alloy, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Volume 43, Issue 8, August 2021, 400.
9. O. F. Biswas, A. Sen, G. Kibria, S. Kunar, Parametric study of surface characteristics of laser micro-channel milling of zirconia (ZrO₂) at defocused condition, *Materials Today: Proceedings*, 2021, 47, pp. 2288–2292.
10. I. Shivakoti, P.P. Das, G. Kibria, B. Khanal, A. Bhattarai, N.K. Gupta, B.B. Pradhan and A. Sharma, Selection of Optimal Turning Parameters Using Multi-Criteria Decision Methods, *Journal of Multiple-valued Logic and Soft Computing*, Vol. 37, Issue 5-6, 2021, p. 601-618.
11. S. Kunar, G. Kibria and I. Shivakoti, Generation of Microtextured Characteristics using Maskless Electrochemical Micromachining, *IOP Conference Series: Materials Science and Engineering*, 1166 012030.
12. Jaideep Dutta, Nabankur Mandal, Prasenjit Chatterjee, Golam Kibria, Evaluation of thermal characteristics of laser induced heating of microfilm in relation to printed circuit board manufacturing, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, ONLINE, doi:10.1177/09544089221116165.

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

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

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

Committee	Position held	Work done/ Activity
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	

Signature
12/07/22

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) : 9 yrs
 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) :
 8] Contribution to enrich quality of teaching-learning during the academic year: (Seminars/Workshops/lectures/field visits organized) :
 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
National Digital Library of India	President	Conducting NDLI approval process
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] Best Practices in teaching & academic-administration introduced in the department in the academic year (Please specify, add rows if required):

1	Lab in charge: CAD Lab
2	Lab in charge: Dynamics of Machine Lab

Shah
12/02/2022

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

1] Name: Dr. Rafiqul Haque

2] Designation: Assistant Professor

3] Qualification: Ph.D

4] Teaching experience (in years): 15 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. Ziyauddin Seikh, Sandip Kunar, Rafiqul Haque, Shamim Haidar, Mukandar Sekh, "WEDM machining performance of Al based metal matrix composites reinforced with rice husk ash", Materials Science Forum, Volume 1048, pp. 261-269, 2022.

National/International Conference Papers:

PG Courses:

Year	PG Level
2021-2022	Experimental Investigation on The Laser Marking of AISI 304 Stainless Steel By SAMIUL HASAN (Roll No. MEN192011)
	Comparative Analysis of Mechanical Properties of Hybrid Composites Containing Jute, Banana and Glass Fiber By Soyod Ali

(Roll No. MEN202002)

8]

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

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

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.

Aliah University Science and Technology Club (AUSTC)	Convenor	Actively arranging meetings and write the minutes of these meetings.
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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	

Prof. S. K. Saha
12/07/2022

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):14years

5] Industry experience (if any in years):

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): 2 SCI Journal publications and 2 book chapters

Research paper Published:

SCI Journal papers:

1. **Mondal S, Sahana C, De S, (2021, December)** Optimum operation of a novel ejector assisted flash steam cycle for better utilization of geothermal heat. *Energy Conversion and Management* 253, 115164.

<https://doi.org/10.1016/j.enconman.2021.115164>

2. **Mondal S, Sahana C, De S, (2021, November)** Strategic integration of single flash geothermal steam cycle (SFGSC) and ejector assisted dual-evaporator organic flash refrigeration cycle (EADEOFRC) for power and multi-temperature cooling: 2nd law performance study. *International Journal of Green Energy* 19 (13), 1415-1427.

<https://doi.org/10.1080/15435075.2021.2005604>

Book chapter published

1. **Mondal S, De S, (2021, September)** Polygeneration systems in Industry. *Polygeneration Systems Design, Process and Technology* (Elsevier): 411-430.

2. **Mondal S, De S, (2021, December)** Diesel Engine Waste Heat Recovery Schemes for Improved Fuel Economy and Reduced Emissions: Simulation Results. *Engine Modeling and Simulation* (Springer): 341-364.

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

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

Committee	Position held	Work done/ Activity
BOS	Member	Monitoring departmental curriculum and associated activities
Departmental representative in engineering common syllabus curriculum committee	Member	Taken part in formulation of uniform course curriculum
Departmental NAAC committee	Member	Gathering departmental data related to NAAC
DRC	Member	Monitoring departmental research activity

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	Taken remedial classes
2	

Subha Mondal
12/07/22

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

- 1] Name: Dr. Shahanwaz Khan
- 2] Designation: Assistant Professor (Stage II)
- 3] Qualification: Ph.D.
- 4] Teaching experience (in years): 11 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 academic year (provide list in separate sheet):

Publications:

International Journal:

Shahanwaz Khan, Rajsekhar Panua, Probir Kumar Bose. Numerical Investigation to Explore the Influence of Combustion Chamber Modification on Combustion and Emission of a Diesel Engine Fuelled with Biodiesel. *International Journal of Ambient Energy* 2021; <https://doi.org/10.1080/01430750.2021.1919549>.

Study material developed:

3. 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/field visits organized):

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)	Member	1. Discussion in meeting regarding improvement of

Engineering Department)		contents of various subjects and laboratories.
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	

[Signature]
12/07/22

Academic Practices (for the academic year: 2021-2022)

- 1] Total number of teaching-days in the academic year: 200
- 2] Total number of permanent teaching staff: 08
- 3] Total number of permanent teaching staff with PhD: 06
- 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	
	Lateral	27	27
M. Tech		18	18 (17Male+1Female)

- 6] How many teaching members have attended Orientation Programme/ Refresher Course/ FDP/ Workshop/ Training Programme/ Research Methodology Course/ Capacity Building Programme etc.: 03
- 7] Number of Orientation Programme/ Refresher Course/ FDP/ Workshop/ Training Programme/ Research Methodology Course/ Capacity Building Programme etc. organised by the department: Nil
- 8] Number of Training Programme/ Consultancy offered by the department: Nil
- 9] Number of academic collaborations made by the department: Nil
- 10] Innovative practices (please specify):

Teaching-Learning-Evaluation process (for the academic year: 2021-2022)

- 1] Do 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 ✓
 - 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

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
- f. Online assessment
- 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: 2021-2022)

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

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

3] Number of publications in refereed & peer-reviewed journals: 16

4] Number of book/ edited-volume/ book-chapter published with ISBN: 2 Book chapters

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: Nil

8] Number of sponsored research projects:

- a. Completed
- b. One ongoing

9] Number of collaborative research projects: Nil

- a. Completed
- b. Ongoing

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. A. A. A.
12/7/22
DEPARTMENT OF MECHANICAL ENGINEERING
UNIVERSITY OF KERALA
Department of Education and Culture