

Aliah University

Academic and Administrative Audit

Academic Year: 2019-2020

Department: Mathematics and Statistics



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. Nurul Huda Gazi

2] Designation: Professor

3] Qualification: M.Sc., M.Tech., Ph.D.

4] Teaching experience (in years): 18

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

6] Number of teaching hours per week: 16

7] Number of Research Projects/Publications/Study material developed during The academic year (provide list in separate sheet): 03

- i. N. H. Gazi, S. K. Biswas, Holling-Tanner Predator-Prey Model with Type-IV Functional Response and Harvesting, *pp. 151-159* | DOI: 10.5890/DNC.2021.03.011
N.H. Gazi, Subrata Mandal, **DNC** (Accepted), 2019
- ii. Kalyan Das, M. N. Srinivas and Nurul Huda Gazi, Diffusion Dynamics and Impact of Noise on a Discrete-Time Ratio-Dependent Model: An Analytical and Numerical Approach, *Math. Comput. Appl.* 2019, 24, 103; doi:10.3390/mca24040103 at www.mdpi.com/journal/mca
- iii. (iii) N. H. Gazi, Md. R. Mandal and S. Sarwardi, Effect of nonlinear harvesting on a prey-predator ecological system with Monod-Haldane functional response, *International Journal of Mathematics and Computation*, 30(4), 2019, pp. 55-66.

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

- i. Organized the National Seminar on Mathematical Modeling and its Applications in Natural and Engineering Sciences (NSMMANES-2019), held on 25th March, 2019. Role: Convenor.

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

Committee	Position held	Work done/ Activity
Departmental Research Committee	Member	Attended several meetings for PhD programme in the Department
BOS	Member	Framed Syllabus of Core Courses, Discipline-Specific Courses for (i) UG Programmes (ii) PG Programmes (iii) Doctoral Programme
Academic Council	Member	Attended several meetings and taken leading part in issues of Academic matters

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

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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):

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

Prof. Babulal Seal

1] Name: **Babulal Seal**

2] Designation: Professor

3] Qualification: M. Stat., Ph.D.

4] Teaching experience (in years): 31 years

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

6] Number of teaching hours per week: 12

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

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
Departmental Committee	Member	Various activities as per need and as directed by Head of the Department.
Board of Studies	Member	Preparing syllabus and various responsibilities regarding curriculum, examination etc.
Departmental Research Committee	Member	As per the requirement of the department

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

1.	Director, IQAC, AU
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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):

Prof. Sk Monowar Hossein

1] Name: **Prof. Sk Monowar Hossein**

2] Designation: Professor

3] Qualification: M. Sc., Ph.D.

4] Teaching experience (in years): 20 years

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

6] Number of teaching hours per week: 12

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

The academic year (provide list in separate sheet): **1**

- i. On the positive definite solution of a class of pair of nonlinear matrix equations, H Ali, SM Hossein, Computational and Applied Mathematics 39 (2), 102, 2020

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
Departmental Committee	Member	Various activities as per need and as directed by Head of the Department.
Departmental Research Committee	Member	Various activities as per need and as directed by Head of the Department.
Board of Studies	Convenor	Preparing syllabus and various responsibilities regarding curriculum, examination etc.

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

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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):

Dr. Joydeep Sengupta

1] Name: JOYDEEP SENGUPTA

2] Designation: Associate Professor

3] Qualification: M.Sc. (KU), Ph.D. (KU)

4] Teaching experience (in years): UG: 17 years, PG: 13 years

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

6] Number of teaching hours per week: 16

7] Number of Research Projects/ Publications/ Study material developed during The academic year (provide list in separate sheet): 1

- i. On Quasi-Einstein Manifolds Admitting Space Matter Tensor; jointly with Amit Kr. Debnath, Sanjib Kr. Jana; Fusun Nurcan; Conference Proceedings of Science and Technology, 17th International Geometry Symposium, 2019; Volume II, Issue II, 2019, pp 104 – 109. ISSN 2651-544X.

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

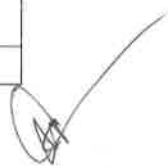
- i. Presented a talk on invitation at Ramakrishna Mission Vivekananda Centenary College, Rahara at the programme One Day Workshop on Basic Mathematics for Celebration of Basic Mathematics Day. Title of the Talk: Curvature, A Historic Approach.
- ii. Attended National Seminar on Preparation and Publication of Research articles, held on 18.03.2019 at Department of Computer Science and Engineering.

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

Committee	Position held	Work done/ Activity
Departmental Committee, Department of Mathematics and Statistics, AU	Member	Attended all meetings and performed all assigned duties.
Undergraduate Board of Studies in Mathematics and Statistics, AU	Member	Attended all meetings and performed all assigned duties.
Postgraduate Board of Studies in Mathematics and Statistics, AU	Member	Attended all meetings and performed all assigned duties.
Board of Research Studies in	Member	Attended all meetings



Joydeep Sengupta

Mathematics and Statistics, AU	and performed all assigned duties.
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10] Other responsibilities (Please specify, add rows if required):

1	Chairman, Signage Committee, New Town Campus, AU
2	Member, Anti-ragging Squad
3	Member, Screening Committee, Recruitment of Several Non-teaching Posts
4	Member, Invitation Committee, First Convocation of the University.

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

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Dr. Sk. Md. Abu Nayeem

1] Name: Sk. Md. Abu Nayeem

2] Designation: Associate Professor

3] Qualification: M.Sc., Ph.D.

4] Teaching experience (in years): 14 Years

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

6] Number of teaching hours per week: 16 Hours

7] Number of Research Projects/Publications/
Study material developed during



The academic year (provide list in separate sheet): 4 Publications (List Attached)

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

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

Committee	Position held	Work done/ Activity
Departmental Committee	Member	Attended different meetings and acted upon those for smooth running of the department.
BoS of the Department	Member	Attended meetings of the BoS to frame UG and PG syllabi and on other issues
BoS, Dept. of CSE	External Member	Attended meetings of the BoS to frame UG and PG syllabi.
Maintenance	Chairman	Conducted meetings

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Committee		and acted upon those regarding different maintenance issues of the university.
AUAT (2019)	Chairman	Conducted AUAT – 2019 for admission to 42 UG and PG programmes
Core Committee to hold first Convocation	Convenor	Convened several meetings of the committee and initiated the purchase procedure of convocation robes.
Computer Network Committee	Member	Attended several meetings of the committee.

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

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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):

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List of Publication during July 2019 to June, 2020

- i. Amin, Ruhul; Nayeem, Sk Md Abu;, Extremal F-index of a graph with k cut edges, *Matematiski Vesnik*, 72(2020) 146-153.
- ii. Amin, Ruhul; Abu Nayeem, Sk Md;, Bounds for Kirchhoff index and Laplacian-energy-like invariant of some derived graphs of a regular graph, *Discrete Mathematics, Algorithms and Applications*, 12(2020) 2050022.
- iii. Khatun, Sarifa; Sircar, Jayasri; Nayeem, Sk Md Abu;, Abian's Relation on Semirings., *Southeast Asian Bulletin of Mathematics*, 44(2020).
- iv. Khatun, Sarifa; Sircar, Jayasri; Nayeem, Sk Md Abu;, On some properties of Abian's semiring and its zero divisor graphs, *Journal of the Indonesian Mathematical Society*, (2020) 64-73.

Dr. Sumana Pal

- 1] Name: **Dr. Sumana Pal**
- 2] Designation: Assistant Professor
- 3] Qualification: M. Sc., Ph.D.
- 4] Teaching experience (in years): **20 years**
- 5] Industry experience (if any in years): NIL

6] Number of teaching hours per week: 14

7] Number of Research Projects/Publications/
Study material developed during the academic
year (provide list in separate sheet):
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
Departmental Committee	Member	Various activities as per need and as directed by Head of the Department.
Departmental Research Committee	Member	Various activities as per need and as directed by Head of the Department.
Board of Studies	Convenor	Preparing syllabus and various responsibilities regarding curriculum, examination etc.

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

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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):

Dr. Sadek Hossain Mallik

1] Name: Sadek Hossain Mallik

2] Designation: Assistant Professor

3] Qualification: Ph. D (Sc.)

4] Teaching experience (in years): 13 Yrs

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

6] Number of teaching hours per week: 14 Hrs

7] Number of Research Projects/Publications/Study material developed during the academic year (provide
list in separate sheet): 1

i. Md Abul Kashim Molla, Nasiruddin Mondal and **Sadek Hossain Mallik**, Waves in Generalized




Hamid



Thermo-viscoelastic Infinite Continuum with Cylindrical Cavity due to Three-phase-lag Time-Nonlocal Heat Transfer, **Journal of Thermal Stresses**, Vol. 43(6), 784–800, 2020.

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
Departmental Purchase Committee	Convenor	Convened several meetings to initiate and execute purchase process for different items for the Department
Computer Purchase Committee	Member	Attended several meetings for preparing various tender documents for the purchase of different items for different Academic and Administrative Departments of the University
DRC	Member	Attended several meetings on the process of awarding PhD degree
DC	Member	Attended several meetings organised by HOD for smooth running of the Department
BOS	Member	(i) Attended several meetings for framing PG CBCS syllabus (ii) Courses designed and revised

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

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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):

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Dr. Sahabuddin Sarwardi

1] Name: **Dr. Sahabuddin Sarwardi**

2] Designation: Assistant Professor

3] Qualification: Ph.D.

- 4] Teaching experience (in years): 11 Years
 5] Industry experience (if any in years): N.A.
 6] Number of teaching hours per week: 16 Hours
 7] Number of Research Projects/Publications/
 Study material developed during
 The academic year (provide list in separate sheet): 6

- i. Md. Manarul Haque, **Sahabuddin Sarwardi*** (2020). Dynamics of a stage-structured-prey and predator model with linear harvesting of mature prey and predator. **Discontinuity, Nonlinearity, and Complexity, L&H Scientific Publishing.** (2020), 9(1):99 -116
- ii. **H. Molla, Md. S. Rahman, S. Sarwardi*** (2020). Dynamical study of a prey-predator model incorporating nonlinear prey refuge and additive Allee effect acting on prey species”, Modeling Earth Systems and Environment (2020); DOI: 10.1007/s40808-020-01049-5.
- iii. **Sahabuddin Sarwardi**, Md. Reduanur Mandal, Nurul Huda Gazi (2019). Dynamics of One-Consumer-Two-Resources Ecological System with Beddington-Deangelis Functional Response. **Journal of Applied Nonlinear Dynamics, L&H Scientific Publishing. Vol. 8(4), 637-653.**
- iv. Pranab Kumar Bera, Sahabuudin Sarwardi, Md. Abdul Khan. “Application of Homotopy perturbation Method to an Eco-epidemic Model” **International Journal of Ecological Economics & Statistics (IJEES). CESER Publications™. (2019), Vol. 40(2) 17-24.**
- v. Nurul Huda Gazi, Md. Reduanur Mandal, **Sahabuddin Sarwardi (2019).** “Effect of nonlinear predator-prey harvesting on an ecological system with Monod-Haldane functional response”. **International Journal of Mathematics & Computations (IJMC). CESER Publications™. Vol. 30(4), 55-66.**
- vi. Md. M. Haque, **Sahabuddin Sarwardi.** Complex dynamics of an exploited prey-predator model with nonlinear prey refuge. **Discontinuity, Nonlinearity, and Complexity, L&H Scientific Publishing (2019): 30(4).**

8] Contribution to enrich quality of teaching-learning during the academic year:
 (Seminars / Workshops / lectures / field visits organized): 1

- i. Delivered a lecture on “Effect of Nonlinearities to Study an Ecological System with Constant Harvesting’ as an invited speaker to International Workshop on Recent trends in Mathematical Biology -RTMB 2020, 14th-15th January 2020, organized by the Department of Mathematics, Jahangirnagar University and Bangladesh Mathematical Biology Research Group

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

Committee	Position held	Work done/ Activity
Departmental Committee	Member	As per requirement
Departmental Research Committee	Member	As per requirement
Board of Studies,	Member	As per requirement

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Department of Mathematics and Statistics		
Training and Placement Committee	Member	Career Counselling, Providing Training for Soft Skill Development, English Communication and Subject Knowledge Enhancement. Arranging on and off campus drive etc.
MatLab Committee	Member	Procurement of MatLab Software for the Science and Engineering Departments

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

1	Departmental Coordinator for the purchase of Books and Journal
2	Member Departmental Purchase Committee

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

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Dr. Imrul Kaish

1] Name: Imrul Kaish

2] Designation: Assistant Professor

3] Qualification: M.Sc., Ph.D.

4] Teaching experience (in years): 11 years

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

6] Number of teaching hours per week: 16

7] Number of Research Projects/Publications/
Study material developed during

The academic year (provide list in separate sheet): 03 (Paper published)

- i. I. Kaish. N. Gazi, Uniqueness of entire function sharing a polynomial with its linear differential polynomial, Ratio Mathematica, Vol.39(2020), 213-228
- ii. M. Rahaman, I. Kaish, Small functions sharing results on uniqueness of meromorphic functions concerning differential polynomials, Asian European Journal of Mathematics, Vol.14(6), 2021
- iii. I. Kaish. M. Rahaman, A note on uniqueness of meromorphic functions sharing two values with their differences, Palestine Journal of Mathematics, Vol. 10(2), 2021, 1-15

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:

BOS	Member	Participated several meetings for forming CBCS UG and PG syllabus.
DRC, Math and Stat	Member	Participated several meetings and performed PhD degree related activities
DC	Member	Attended several meetings organised by HOD for smooth running of the Department

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

1	Formed Departmental Time Table
2	Conducted Semester Examination

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

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Sajjad Hossain

1] Name: **Sajjad Hossain**

2] Designation: Assistant Professor

3] Qualification: M.Sc.

4] Teaching experience (in years): 7 Years

5] Industry experience (if any in years): N.A.

6] Number of teaching hours per week: 16 Hours

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
Departmental Committee	Member	As per requirement
Board of Studies, Department of Mathematics and Statistics	Member	As per requirement

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

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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):

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Biman Chakraborty

1] Name: **Biman Chakraborty**

2] Designation: **Assistant Professor**

3] Qualification: **M. Sc.**

4] Teaching experience (in years): **4 years**

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

6] Number of teaching hours per week: **16**

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

The academic year (provide list in separate sheet): **1**

- i. **Chakraborty, B.,** Bhowmick, A.R., Chattopadhyay, J., Bhattacharya, S., 2019. A Novel Unification Method to Characterize a Broad Class of Growth Curve Models Using Relative Growth Rate. Bulletin of Mathematical Biology 81(7), 2529-2552.

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

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

- i. **Invited Talk:** Advanced application of R in Planning, Research & Development organized by A.K.Dasgupta Centre for Planning and Development [A Centre sponsored by the NITI AAYOG, Govt. of India] on 6th December 2019
- ii. **Faculty Development Programme:** Participated in One week Faculty Development Programme on "Recent Trends in Research Methodology, E-content, Mathematical and Statistical Methods in open Education world" organized by Kalindi College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi

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

Committee	Position held	Work done/ Activity
National Academic Depository Cell	Convenor	Uploading Academic Certificates of the Students
Annual Report Committee	Member	Preparation of Annual Report of the University
Departmental Committee	Member	Various activities as per need and as directed by Head of the Department.
Board of Studies	Member	Preparing syllabus and various

		responsibilities regarding curriculum, examination etc.
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10] Other responsibilities (Please specify, add rows if required):

1	Acted as a Moderator of Semester-V Examination of B. Sc. Mathematics on 27 th November 2019 at Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata
2	Acted as an Examiner of Stat(H) Paper CC05T B.Sc. (Hons) Sem-III Examination 2019 at University of Kalyani
3	Acted as an Examiner of 5 Stat 302 for 5-yr Integrated Sem-III Examination held on 09.01.2020 at University of Kalyani

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

1	Student friendly behaviour for Teaching learning and other issues faced by the students.
2	Uses of ICT based tools for teaching and learning.
3	Motivate students for thinking, self learning, problem solving etc.

Dr. Moumita Chatterjee

1] Name: Moumita Chatterjee

2] Designation: Assistant Professor

3] Qualification: PhD in Statistics

4] Teaching experience (in years): 4 years

5] Industry experience (if any in years): 0 year

6] Number of teaching hours per week: 16 hours

7] Number of Research Projects/Publications/
Study material developed during

The academic year (provide list in separate sheet):

- i. **Moumita Chatterjee** and Sugata Sen Roy, A study on the selection pattern of players in any team sport (2019), *Statistica*, Vol 79 (4), pp. 445 - 460.
- ii. Rudra Prosad Goswami, Hiranmanik Sit, **Moumita Chatterjee**, Debasish Lahiri, Geetabali Sircar and Parasar Ghosh, High-resolution ultrasonography in carpal tunnel syndrome: role of ancillary criteria in diagnosis and response to steroid injection, *Clinical Rheumatology*, 2020. DOI: [10.1007/s10067-020-05228-8](https://doi.org/10.1007/s10067-020-05228-8).

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

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

- i. Acted as a resource person in 10-Day National Workshop on "Research Methodology Using Statistical Tools, Techniques and Packages (SPSS & R) at **Palli-Siksa Bhavana, Visva-Bharati, Sriniketan, Birbhum**, West Bengal during 23rd February to 3rd March, 2020.
- ii. Conducted a workshop on "An Introduction to R" for the Under Graduate and Post Graduate students of Mathematics, at **Pingla Thana Mahavidyalaya** on 2nd and 3rd August, 2019.

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

Committee	Position held	Work done/ Activity
Examination Committee	Member	Overall supervision of all the examinations of Aliah University
Examination Committee, Department of Mathematics and Statistics	Co Ordinator	To conduct the day to day examinations
Hostel Management Committee	Member	To manage the hostel related issues

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

1	Have prepared several questions and checked answer scripts for St. Xavier's College, KNU, BU, KU, and Midnapore College and acted as an external examiner at University of Calcutta and St. Xavier's College
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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):

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Dr. Hare Krishna Maity

1] Name: Hare Krishna Maity

2] Designation: Assistant Professor

3] Qualification: Ph.D.

4] Teaching experience (in years): 3.5

5] Industry experience (if any in years): 0

6] Number of teaching hours per week: 16

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

8] Contribution to enrich quality of teaching-learning during the academic year:
(Seminars / Workshops / lectures / field visits organized): 1

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

Committee	Position held	Work done/ Activity
Placement Committee	Member	Works with Placement

		team
Organising Committee MTUSS2019	Member	Worked with the team
NAD Cell, AU	Member	Works with the team
BOS, Dept. of Math & Stat	Member	Worked with the team

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

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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):

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Dr. Debashis Samanta

1] Name: **Dr. Debashis Samanta**

2] Designation: **Assistant Professor**

3] Qualification: **M.Sc, Ph.D**

4] Teaching experience (in years): **6 years**

5] Industry experience (if any in years): **3 years**

6] Number of teaching hours per week: **16 hours**

7] Number of Research Projects/Publications/
Study material developed during
The academic year (provide list in separate sheet): **2**

- i. **Debashis Samanta**, Arnab Koley, Arindam Gupta and Debasis Kundu "Exact inference of a simple step stress model with hybrid type-II stress changing time " **Journal of Statistical Theory and Practice**, vol. 14, no. 1, Art 12, 27 pp, 2020.
- ii. **Debashis Samanta**, Ayon Ganguly, Arindam Gupta and Debasis Kundu "On classical and Bayesian order restricted inference for multiple exponential step stress model " **Statistics**, vol. 53, no. 1, 177 - 195, 2019.

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

Title of the Course	Place	Duration (No. of Weeks)	Period
Orientation Program	University of Calcutta	3 weeks	30.08.2019 – 20.09.2019
Refresher Course in Recent Advancement in Physical, Chemical and Mathematical Sciences.	The University of Burdwan	2 Weeks	12.02.2020 – 25.02.2020

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

Committee	Position held	Work done/ Activity
Departmental Committee, Department of Mathematics and Statistics	Member	As per necessity
Board of Studies, Department of Mathematics and Statistics	Member	As per necessity
Departmental Research Committee, Department of Mathematics and Statistics	Member	As per requirement

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

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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):

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Sultan Parveen

1] Name: **Sultan Parveen**

2] Designation: **Assistant Professor**

3] Qualification: M.Sc. (Statistics), Ph.D (pursuing in Statistics)

4] Teaching experience (in years): **3 years**

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

6] Number of teaching hours per week: 16

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

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

- i. **Parveen, S.,** Singh, S.K., Singh, U. and Kumar, D. 2019. A Comparative Study of Traditional and Kullback-Leibler Divergence of Survival Functions Estimators for the Parameter of Lindley Distribution. *Austrian Journal of Statistics.* 48, 5 (Jul. 2019), 45-53. DOI:<https://doi.org/10.17713/ajs.v48i5.772>.

8] Contribution to enrich quality of teaching-learning

during the academic year:
(Seminars / Workshops / lectures / field visits organized):

- Translated 03 e-content modules from English to Hindi for B.Ed. programme of Central University of Punjab (School of Education - CUP), 2020.
<https://drive.google.com/file/d/1sl7kPprM9ZP7lZgxienEhlbsLsvBlyuH/view?usp=sharing>
- Faculty Development Programme:** Participated in One week Faculty Development Programme on “Recent Trends in Research Methodology, E-content, Mathematical and Statistical Methods in open Education world” organized by Kalindi College, University of Delhi in collaboration with Mahatma Hansaraj Faculty Development Centre, Hansraj College, University of Delhi

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

Committee	Position held	Work done/ Activity
BoS	Member	Attended several meetings: I. for framing PG CBCS syllabus II. Courses designed and revised
Departmental Committee	Member	Performed activities as per the need of the department
Maintenance	Member	Attended many meetings regarding maintenance work of University.
Medals/ Prizes	Member	Attended many meetings and performed activities as per the need

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

- Appointed as Moderator in Statistics for semester Examination- 2019 under CBCS for Kazi Nazrul University.
- Appointed as paper setter of Kazi Nazrul University for B.Sc. Part I Examination 2019 for **Descriptive Statistics I and Probability I** .
- Appointed as paper setter of Kazi Nazrul University for B.Sc. Part III Examination 2019 for **Time Series Analysis**.

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

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Academic Practices

Academic Practices (for the academic year: 2019-20)

- 1] Total number of teaching-days in the academic year: 158
- 2] Total number of permanent teaching staff: 15
- 3] Total number of permanent teaching staff with PhD: 12
- 4] Number of programmes offered (please specify): 06

- Doctor of Philosophy (Ph.D.) in Mathematics
- Doctor of Philosophy (Ph.D.) in Statistics
- 2 years M.Sc. in Mathematics
- 2 years M.Sc. in Statistics
- B.Sc. Honours in Mathematics
- B.Sc. Honours in Statistics

- 5] Number of sanctioned intake of students and Number of actual admissions:

Intake: 240, Admission: 144

Program	Intake	Admission
M.Sc. in Mathematics (2 yrs)	60	60
M.Sc. in Statistics (2 yrs)	60	6
B.Sc. (Hons) in Mathematics	60	60
B.Sc. (Hons) in Statistics	60	18

Doctor in Philosophy (Ph.D.) -as per number of faculty members

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

6

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

1

- 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: 2019-20)

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	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
b. LCD	No
c. Interactive Boards	No
d. LMS	No
e. Any other	Board-chalk/marker pen
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	Yes
f. Online assessment	Yes
g. Online feedback	No
7] Weekly class hour per course (average): (Weekly 4 hours per 4 credit theory and weekly 6 hours per 4 credit practical course)	24 hours
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: 54 Passed: 54

Research output (for the academic year: 2019-20)

1] Does the department offer MPhil/ PhD/ Post-Doctoral Programme: (Please specify):	Yes
2] Number of students/ scholars registered/ enrolled in MPhil/ PhD/ Post-Doctoral Programme (If the answer to Q1 is yes):	9
3] Number of publications in refereed & peer-reviewed journals:	25

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4] Number of book/ edited-volume/ book-chapter published with ISBN:	0
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	NIL
b. Ongoing	1
9] Number of collaborative research projects:	
a. Completed	NIL
b. Ongoing	
10] Any innovative research initiative adopted and implemented (please specify):	

Infrastructure & facilities (departmental level)

1] Number of classrooms: 16	
2] Number of ICT-enabled classrooms: 1	
3] Number of laboratories: 4	
4] Availability of licensed software/ databases: NIL	
5] Number of tutorial rooms:	
6] Number of seminar halls:	
7] Number of rooms for the teaching members: 6	
8] Number of computer/ printer/ scanner available:	
a. In laboratory: 90	
b. In teachers' enclosure: Computer-30, Printer-15	
c. For Research scholars: 20	
d. For Administrative purpose: Computer: 5, Printer-2, Scanner-2	
9] Whether Internet facility available in classrooms/ laboratory / teachers' enclosure?	Yes
10] Whether reprographic facility available?	No
11] Number of washroom facility (for male):	6
12] Number of washroom facility (for female):	6
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? Yes
- 4] Does the department arrange seminars/ workshops/ skill-development programmes etc. for students?
- 5] Does the department arrange programmes for the students focusing Soft-skill and Personality development? Organized by AU
- 6] Does the department have any Student Forum/ Club/ Chapter etc.? No
- 7] Does the department have a students' feedback mechanism in place?
- 8] Are the students provided with Training and Placement support? Yes, University placement cell
- 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): 11
- 12] Please indicate the number of students those have progressed for higher studies (for the specific period):
- 13] Please indicate the number of students those were offered placements by the University (for the specific period):.

