

Aliah University

Academic and Administrative Audit

Academic Year: 2020-2021

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: **Prof. Nurul Huda Gazi**

2] Designation: Professor of Mathematics

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

4] Teaching experience (in years): 19 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): 3

- i. M.A. Yau, N.H. Gazi, Spatial patterns of an SIS epidemic model with diffusion, Discontinuity, Nonlinearity, and Complexity, 9(3) (2020) 377-393
- ii. Saikh, NH Gazi, A Mathematical Study of a Two Species Eco-Epidemiological Model with Different Predation Principles, Discontinuity, Nonlinearity and Complexity 9(2) (2020) 309-325
- iii. N.H. Gazi, M.R. Mandal and S. Sarwardi, Study of a predator-prey system with Monod-Haldane functional response and harvesting, Discontinuity, Nonlinearity, and Complexity 9(2) (2020) 229-243

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
DC	Chairperson	Organised several meetings with faculty members for smooth running of the departments
BOS	Chairperson	
NAAC	Member	Attended many meetings, prepared NAAC matrix
IQAC	Member	Attended several meetings and suggested for framing rules and regulations
CAS	Chairman	Attended CAS meeting for promotion of faculty members from Stage-1 to Stage-2 and Stage 3- Stage-4
Recruitment	Member	Worked as member for recruitment board of Teaching and Non-teaching staff
Library	Member	For management of the Library
NPTEL Aliah University	Member	—

Chapter		
DRC, Maths & Stats	Chairman	Conducted meetings and suggested means and ways to smooth functioning of the same.
DRC, Chemistry	Member	Attended meeting and advised for betterment of the research activities in the issue of selecting directly admitted PhD students
DRC, MBA	Member	Attended meeting and suggested for carrying our course works and other activities of the PhD students
DSC, CSE	Member	Attended meetings for several activities of the PhD students

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

1	Prepared Annual Budget of the Department
2	

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): **32 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.
Departmental Research 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.

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

1.	Dean, Faculty of Science and Technology
2.	Director, IQAC, AU

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): 21 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. Solution of a class of nonlinear matrix equations; S Pakhira, S Bose, SM Hossein; Bulletin of the Iranian Mathematical Society 47, 415-434, 2021

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

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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: 18 years, PG: 14 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: 4

- i. Non-null (Spacelike or Timelike) f -rectifying Curves in the Three Dimensional Minkowski Space Time E_1^3 ; jointly with Zafar Iqbal; Euresian Bulletin of Mathematics; ISSN 2687-5632; Volume3; Issue 1; 2020; pp 38-55.
- ii. Null (Lightlike) f' -rectifying Curves in the Three Dimensional Minkowski Space Time E_1^3 ; jointly with Zafar Iqbal; Fundamental Journal of Mathematics and its Applications; ISSN 2645-8845; Volume 3; Issue 1; 2020; pp 8 – 16.
- iii. DOI: 10.33401/fujma.708816
- iv. Differential Geometric Aspects of Null (Lightlike) f -rectifying Curves in Minkowski Space-time; jointly with Zafar Iqbal; Differential Geometry- Dynamical Systems; ISSN 1454-511X; Volume 22, 2020, pp 132 – 148.
- v. Magnetic Trajectories Corresponding to Killing Magnetic Fields in a Three Dimensional Warped Product, jointly with Zafar Iqbal and Subenoy Chakraborty; International Journal of Geometric

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

Attended NPTEL Online Certification in Introduction to Smooth Manifolds

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	As required
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.
Departmental Research Committee, Department of Mathematics and Statistics, AU	Member	Attended all meetings and performed all assigned duties.
Board of Research Studies, AU	Member	Attended all meetings and performed all assigned duties.
Internal Quality Assurance Cell, AU	Member	Attended all meetings and performed all assigned duties.

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

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): 15 Years

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

6] Number of teaching hours per week: 12 Hours

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

The academic year (provide list in separate sheet): 3 Publications

- i. Amin, Ruhul; Nayeem, Sk Md Abu;, Extremal F-Indices for Bicyclic Graphs With k Pendant Vertices, The Pure and Applied Mathematics, 27(2020) 171-186.
- ii. Abdus Sahir, Md; Abu Nayeem, Sk Md;, $A\alpha$ spectra of graphs obtained by two corona operations and $A\alpha$ cospectral graphs, Discrete Mathematics, Algorithms and Applications, (2021) 2150112.
- iii. Rana, Sohel; Nayeem, Sk Md Abu;, A linear time algorithm for minimum equitable dominating set in trees, Proyecciones (Antofagasta), 40(2021) 805-814.

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.
DRC	Convenor	Conducted DRC meetings to form DSC of the Ph.D. students, Registration Seminars, Pre-submission Seminars, etc.
Maintenance Committee	Chairman	Conducted meetings and acted upon those regarding different maintenance issues of the university.
Core Committee to hold first Convocation	Convenor	Convened several meetings of the committee and initiated the purchase procedure of convocation robes.
Ordinance Drafting Committee	Convenor	Took part in preparing a draft of the Ordinance
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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Dr. Sumana Pal

1] Name: **Dr. Sumana Pal**

2] Designation: Associate Professor

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

4] Teaching experience (in years): **21 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):

1.	
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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 and **Sadek Hossain Mallik**, Variational principle, uniqueness and reciprocity theorems for higher order time-fractional four-phase-lag generalized thermoelastic diffusion model, **Mechanics Based Design of Structures and Machines**, doi:10.1080/15397734.2021.1882311

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 Administratives 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 meeting 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): 12 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. Hafizul Molla, **Sahabuddin Sarwardi***, Mohammad Sajid (2021). Predator-prey dynamics with Allee effect on predator species subject to intra-specific competition and nonlinear prey refuge. *Journal of Mathematics and Computer Science*, (ISR). Vol. 25, 150-165.
- ii. N.H. Gazi, Md. R. Mandal, Sahabuddin Sarwardi. Study of a predator-prey model system with Monod-Haldane functional response. ***Discontinuity, Nonlinearity, and Complexity***, L&H Scientific Publishing. (2020): 9(2):229-243.
- iii. S. Sarwardi*, Md. Manarul Haque, Sajjad Hossain (2020). Analysis of Bogdanov–Takens bifurcations in a spatiotemporal harvested-predator and prey system with Beddington–DeAngelis-type response function, *Nonlinear Dynamics*, Springer 100, pages 1755–1778
- iv. H. K. Das, A. A. Shaikh, **Sahabuddin Sarwardi*** (2020). Mathematical analysis of an eco-epidemic model with different functional responses of healthy and infected predators on prey species, *Journal of Applied Nonlinear Dynamics*, L&H Scientific Publishing. Vol. 9(4):667-684
- v. **H. Molla, Md. S. Rahman, S. Sarwardi*** (2020). Incorporating prey refuge in a prey-predator

model with Beddington-DeAngelis type functional response: a comparative study on intra-specific competition, **Discontinuity, Nonlinearity, and Complexity**, L&H Scientific Publishing, Vol. 9(3):395-419.

Research Project:

1	Mathematical and Numerical Simulations of a Class of Strongly nonlinear Damped Harmonic Oscillator with Multiple Delays.	DEANSHIP OF SCIENTIFIC RESEARCH (DSR), QASSIM UNIVERSITY, BURAIDAH, P.O. BOX 6666-51452, KSA	Research Project No. 10367-cos-2020-1-3-I) Dated: 13.08.2020	76600 Riyal (Rs. 15,23,064/-). Fifteen Lakh Twenty Three Thousand Sixty Four Only
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8] Contribution to enrich quality of teaching-learning during the academic year:

(Seminars / Workshops / lectures / field visits organized): 3

- i. First Online Two Weeks Refresher Course (RC) in Basic Science, organized by UGC-HRDC Jamia Millia Islamia, New Delhi during 10th-23th September, 2020.
- ii. National Level Seven Days Faculty Development Programme on LaTeX:Aesthetic of Scientific Documentation, organized by Department of Mathematics & Computer Science, Bahona College, Jorhat, Assam In collaboration with Assam Science Society, Bahona Branch, Jorhat, Assam during 7th August to 13th August, 2020.
- iii. One week workshop On Use of LATEX in typesetting technical documents, organized by Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab during 31st August to 4th September, 2020.

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, Department of Mathematics and Statistics	Member	As per requirement
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

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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. 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): 8 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): 1

1. S. Sarwardi*, Md. Manarul Haque, Sajjad Hossain (2020). Analysis of Bogdanov–Takens bifurcations in a spatiotemporal harvested-predator and prey system with Beddington–DeAngelis-type response function, *Nonlinear Dynamics*, Springer 100, pages1755–1778

- 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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Dr. Biman Chakraborty

- 1] Name: **Biman Chakraborty**



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2] Designation: **Assistant Professor**

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

4] Teaching experience (in years): **5 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): **NIL**

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

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

- i. **Faculty Development Programme:** Participated in 10-days online Faculty Development Programme on Applied AI and Deep Learning for Medical Data Analysis from 3rd April to 13th April 2021 organized by Edulabs in association with E-Cell IIT Hyderabad.

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.

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

1	Acted as an external examiner for conducting the viva voice exam of the paper DSE2 of B.Sc. (Hons.), Mathematics, Ramakrishna Mission Vivekananda Centenary 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):

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): 5 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): 4

- i. RudraProsad Goswami, Animesh Ray, Moumita Chatterjee, Arindam Mukherjee, Geetabali Sircar and Parasar Ghosh, Rituximab in the treatment of systemic sclerosis–related interstitial lung disease: a systematic review and meta-analysis, *Rheumatology*, 2020. DOI: <https://doi.org/10.1093/rheumatology/keaa550>.
- ii. Arindam Banerjee, Rudra Prosad Goswami and MoumitaChatterjee, Network theoretic analysis of JAK/STAT pathway and extrapolation to drugs and viruses including COVID-19, *Scientific Reports (Nature)*, DOI: www.nature.com/articles/s41598-021-82139-x , 2021.
- iii. RudraniChatterjee, MoumitaChatterjee, RudraProsadGoswami, KaushikBasu, Uma Kumar and ParasarGhosh, Depression, anxiety and suicidality among patients with psoriatic arthritis: a systematic review and meta-analysis, *European Journal of Rheumatology*, 2021.
- iv. RudraProsadGoswami, BhaswatiGanguli and MoumitaChatterjee, Endemic infections, vaccinations and variability of SARS-COV2 worldwide epidemiology: a cross-sectional study, *Journal of Medical Virology*, 2021.

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 the workshop on “**Data Science and it’s Application**” organized by the Department of Computer Science and Engineering, Jadavpur University, held during 22nd February to 6th March, 2021.
- ii. Delivered a lecture in “LISA2020” on health analytics held on December, 26, 2020 at Kolkata.
- iii. Presented a paper in “ISCB2020”, organized by **International Society for Clinical Biostatisticians** in 2020.

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

Committee	Position held	Work done/ Activity
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
2	

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): 4.5

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): 1

- i. Manisha Pal, Nripes Kumar Mandal and Hare Krishna Maity, D-optimal design for estimation of optimum mixture in a three-component mixture experiment with two responses, **Communications in Statistics - Simulation and Computation, 2021, DOI:10.1080/03610918.2021.1897619**

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
DRC, Dept. of Geography	Member	Attended meeting and executed different decisions
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): **7years**
- 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): **3**

Articles:

- i. **Debashis Samanta** and Debasis Kundu "Bayesian inference of a dependent competing risk data ", **Journal of Statistical Computation and Simulation**, 2021, <https://doi.org/10.1080/00949655.2021.1917575>.
- ii. **Debashis Samanta** and Debasis Kundu "Meta-analysis of a step-stress experiment under Weibull distribution " **Journal of Statistical Computation and Simulation**, vol. 91, no. 9, 1867 - 1889, 2021.

Book Chapter:

- i. Ayan Pal, **Debashis Samanta**, Sharmistha Mitra and D. Kundu, " A simple step-stress model for Lehmann family of distributions, " *Advances in Statistics - Theory and Applications: Honoring the Contributions of Barry C. Arnold in Statistical Science*, Eds. Indranil Ghosh, N. Balakrishnan and Hon Keung Tony Ng, pp 315 - 343, Springer, 2021 (ISBN: 978-3-030-62900-7).

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, 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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Ms. 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): **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):

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	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

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

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: 2020-21)

- 1] Total number of teaching-days in the academic year: 136
- 2] Total number of permanent teaching staff: 15
- 3] Total number of permanent teaching staff with PhD: 13
- 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: 167

Program	Intake	Admission
M.Sc. in Mathematics (2 yrs)	60	60
M.Sc. in Statistics (2 yrs)	60	38
B.Sc. (Hons) in Mathematics	60	60
B.Sc. (Hons) in Statistics	60	9

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.:

3

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: 2020-21)

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: 101 Passed: 101

Research output (for the academic year: 2020-21)

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:	29
4] Number of book/ edited-volume/ book-chapter published with ISBN:	1
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 2
- 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/

(9)

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): 21

12] Please indicate the number of students those have progressed for higher studies (for the specific period): 50

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

30

Hemant

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