# Aliah University

## Academic and Administrative Audit

## Academic Year: 2022-2023
## 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: JOYDEEP SENGUPTA

2] Designation: Associate Professor

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

4] Teaching experience (in years): UG: 20 years, PG: 16 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:  NIL


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 Committee, Department of Mathematics and Statistics, AU | Chairman | Attended all meetings and performed all assigned duties. |
| Board of Studies in Mathematics and Statistics, AU | Chairman | Attended all meetings and performed all assigned duties. |
| Departmental Research Committee, Department of Mathematics and Statistics, AU | Chairman | Attended all meetings and performed all assigned duties. |
| Board of Research Studies, AU | Member | Attended all meetings and performed all assigned duties. |
| Academic Council, 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 |
|---|---|
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2

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

| 1 | |
|---|---|
| 2 | |

## 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): **34 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): **5**

I. Babulal Seal, Proloy Banerjee, Shreya Bhunia, Sanjay Kumar Ghosh; Bayesian Estimation in Rayleigh Distribution under a Distance Type Loss Function, Pakistan Journal of Statistics and Operation Research, 19 (2), 219-232, June, 2023, **Doi:** https://doi.org/10.18187/pjsor.v19i2.4130

II. Proloy Banerjee and Babulal Seal; Partial Bayes Estimation of Two Parameter Gamma Distribution Under Non-Informative Prior, Statistics, Optimization & Information Computing, 10(4), 1110-1125, September, 2022, **Doi:** https://doi.org/10.19139/soic-2310-5070-1110

III. Babulal Seal and Anirban Goswami; Stress-Strength Reliability for First-Order Autoregressive Multivariate Normal Distribution and Its Estimation, International Journal of Statistics and Reliability Engineering, 9(3), December, 2022

IV. Anirban Goswami and Babulal Seal; Stress-strength Reliability for Equi-correlated Multivariate Normal and its estimation, Reliability: Theory & Applications, **Vol. 17, No. 4(71),** December, 2022

V. Babulal Seal and Anirban Goswami; STRESS-STRENGTH RELIABILITY MODEL UNDER MULTIVARIATE NORMAL SETUP AND ITS APPLICATIONS, Reliability: Theory & Applications, **Vol. 18, No. 2(73),** June, 2023

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 |
|---|---|---|

3

| | | |
|---|---|---|
| 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 requirement |

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

| | |
|---|---|
| 1. | Dean, Faculty of Science and Technology |

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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# Prof. Sk Monowar Hossein

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

2] Designation: Professor

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

4] Teaching experience (in years): 23 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): **01**

S Pakhira, SM Hossein; A new fixed point theorem in Gb-metric space and its application to solve a class of nonlinear matrix equations, Journal of Computational and Applied Mathematics, Vol.- 437, February 2024, 115474

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. | |
|---|---|
| 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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# Prof. Nurul Huda Gazi

1] Name: **Prof. Nurul Huda Gazi**

2] Designation: Professor of Mathematics

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

4] Teaching experience (in years): 22 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): 01

    i.   NH Gazi, AR Mallick, Dynamical Behaviour of a Predator-Prey System with Holling Type III Functional Response under Harvesting and Self-crowding, Discontinuity, Nonlinearity, and Complexity, accepted on Nov 04, 2022

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 | Member | Attended several meetings for smooth running of the departments |
| BOS | Member | As per requirement |
| NAAC | Member | Attended many meetings, prepared NAAC matric |

| Library | Member | For management of the library |
|---|---|---|
| NPTEL Aliah University Chapter | Member | |
| DRC, Maths & Stats | Member | 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 |
| DSC, CSE | Member | Attended meetings for several activities of the PhD students |

10] Other responsibilities (Please specify, add rows if required): AS DEAN OF STUDENTS' WELFARE

| 1 | (i) Chairman of University Canteen Committee, University Bus Committee, Chairman, Fees Concession Committee |
|---|---|
| 2 | Member- International Students Affairs |
| 3 | Member-Anti-ragging Squad, |

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

| 1 | |
|---|---|
| 2 | |

# 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): 17 Years

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

6] Number of teaching hours per week: 14 Hours

7] Number of Research Projects/Publications/
Study material developed during
The academic year (provide list in separate sheet): 5 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. |
| DRC | Convenor | Conducted DRC meetings to form DSC of the Ph.D. students, Registration Seminars, Pre-submission Seminars, etc. |

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

| 1 | Acting Controller of Examinations, Aliah University |
|---|---|
| 2 | |

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

| 1 | |
|---|---|
| 2 | |

## List of Publication during July 2022 to June, 2023

[1] R. Amin and S. M. A. Nayeem. Normalized Laplacian energy and normalized Laplacian-energy-like invariant of some derived graphs. *Matematicki Vesnik*, 74(4), 2022.

[2] M. A. Sahir and S. M. A. Nayeem. A$\alpha$ spectra of graphs obtained by two corona operations and A$\alpha$ cospectral graphs. *Discrete Mathematics, Algorithms and Applications*, 4(02):2150112, 2022.

[3] M. S. Reja and S. M. A. Nayeem. On Sombor index and graph energy. *MATCH Commun. Math. Comput. Chem*, 89:451–466, 2023.

[4] M. A. Sahir and S. M. A. Nayeem. On energy of matrices of a weighted graph. *Asian-European Journal of Mathematics*, 16(04):2350054, 2023.

[5] M. A. Sahir and S. M. A. Nayeem. On the Kirchhoff index and the number of spanning trees of cylinder/ Möbius pentagonal chain. *Discrete Applied Mathematics*, 326:47–61, 2023.

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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): **23 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): **1**

   i.    Fixed points of Various Types of Operators in Modular Matric Spaces, S. Pal, A. Gazi, Thai Journal
       of Mathematics, Vol-20, No.-4, 2022, Pages 1519-1533

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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|---|---|
| 1. | |
| 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. Sadek Hossain Mallik

1] Name: Sadek Hossain Mallik

2] Designation: Assistant Professor

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

4] Teaching experience (in years): 15 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): 4

   i.    Time-nonlocal six-phase-lag generalized theory of thermoelastic diffusion; M.A.K Molla, S.H Mallik; Mechanics Based Design of Structures and Machines, doi: 10.1080/15397734.2022.2036997

   ii.    Time-nonlocal six-phase-lag generalized theory of thermoelastic diffusion with two-temperature; M.A.K Molla, S.H Mallik; Waves in Random and Complex Media, doi: 10.1080/17455030.2021.1974601

   iii.    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; M. A. K. Molla and S.H. Mallik, 51(4), 1904-1919, 2023.

   iv.    A Two Temperature Generalized Piezo-Thermoelastic Problem with Eringen's Nonlocal Effect and Memory Dependent Derivatives under Three Phase Lag Heat Transfer; N. Mondal, M.A.K. Molla and S.H. Mallik, Waves in Random and Complex Media, doi: 10.1080/17455030.2022.2161023

8] Contribution to enrich quality of teaching-learning during the academic year:
(Seminars / Workshops / lectures / field visits organized): 2
i) Online two-week REFRESHER COURSE in "STATISTICS" held during 30 March – 13 April, 2023.
ii)Online Inter-Disciplinary Two-Week Refresher Course On "Managing Online Classes & Co-creating MOOCS 21.0" held during 07 - 21 December, 2022.

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<br>(ii) Courses designed and revised |
| Computer Network Committee | Member | Attended several meetings of the committee. |

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 | |
|---|---|
| 2 | |

# Dr. Sahabuddin Sarwardi

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

2] Designation: Assistant Professor

3] Qualification: Ph.D.

4] Teaching experience (in years): 14 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): 4

1. Nawaj Sarif, **Sahabuddin Sarwardi*** (2023). Complex dynamical study of a delayed prey–predator model with fear in prey and square root harvesting of both species. Chaos: An Interdisciplinary Journal of Nonlinear Science 33 (3)

2. Md. Sabiar Rahman, Md Sarijul Islam, **Sahabuddin Sarwardi** (2023).Effects of prey refuge with holling type iv functional response dependent prey predator model, International Journal of Modelling and Simulation, 1-19

10

3. Md Sarijul Islam, **Sahabuddin Sarwardi** (2023). Analysis of an Eco-Epidemic Predator-Prey Model with Nonlinear Prey Refuges and Predator Harvesting, Journal of Applied Nonlinear Dynamics 12 (3), 465-483

4. Nawaj Sarif, **Sahabuddin Sarwardi** (2023). Global Bifurcation Analysis of Higher Codimension in a Ratio Dependent Predator-Prey Model with Prey Refuge and Constant Yield-Harvesting of Both Species. Journal of Environmental Accounting and Management 11(4) (2023) 375--401

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 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 |

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

| 1 | |
|---|---|
| 2 | |

# Dr. Imrul Kaish

1] Name: Imrul Kaish

2] Designation: Assistant Professor

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

4] Teaching experience (in years): 13 years

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

11

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): 01 (Paper published)

1. R. Mondal, I. Kaish, A uniqueness problem of meromorphic functions with normal families, Journal of Fractional Calculus and Application, 14(2)(2023) 1-19

8] Contribution to enrich quality of teaching-learning
during the academic year:
(Seminars / Workshops / lectures / field visits organized):  Two-week Refresher Course on `Managing Online Classes & Co-creating MOOCS21.0' during 07-21, December, 2022.

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

| BOS | Member | Participated in 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 |
| Hostel Management Committee | Warden, Boys' Hostel | From 11-05-2022 to 05-09-2022 |
| Hostel Management Committee | Vice-Chairm an | From 05-09-2022 |
| Anti-Ragging Committee | Member | Attended several meetings |

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

| 1 | |
|---|---|
| 2 | |

# Dr. Sajjad Hossain

1] Name: **Sajjad Hossain**

2] Designation: Assistant Professor

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

4] Teaching experience (in years): 10 Years

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

12

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): NIL

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):

| 1 | |
|---|---|
| 2 | |

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

| 1 | |
|---|---|
| 2 | |

# Dr. Biman Chakraborty

1] Name: **Biman Chakraborty**

2] Designation: **Assistant Professor**

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

4] Teaching experience (in years): **7 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

1. **Chakraborty, B.,** Bhowmick, A.R., Chattopadhyay, J., Bhattacharya, S., 2022 (September). Instantaneous
maturity rate: a novel and compact characterization of biological growth curve models. Journal of Biological
Physics 48(3), 295-319.

8] Contribution to enrich quality of teaching-learning

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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 |
|---|---|---|
| National Academic Depository Cell | Convenor | Uploaded 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. |
| Departmental Committee | Member | As per requirement of the department |
| Departmental Research Committee | Member | As per requirement of the department |

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

| 1 | Acted as an external examiner for conducting the viva voice examination of the paper Statistics(H) C-8, Dept. of Statistics, Midnapore College on 23.07.2022. |
|---|---|
| 2 | Set question paper of MTMA DSE-II for Ramakrishna Mission Rahara in November, 2022. |
| 3 | Set question paper of STAT-H-CC-T05 Linear Algebra and Numerical Analysis (Theory & Practical) for Kalyani University, January 2023. |
| 4 | Set question paper of STATGDSE-1B Actuarial Statistics (Theory & Practical) for Kalyani University, May 2023. |

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

| 1 | Uses of ICT based tools for teaching and learning. |
|---|---|
| 2 | 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): 7 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. Saloni Haldule, Moumita Chatterjee, Rudra Prosad Goswami, Innara Vadsaria, Prithvi Gaur, Chengappa Kavadichanda, Durga Prasanna Misra, Hector Chinoy, Vikas Agarwal, Rohit Aggarwal, Latika Gupta, A systematic review and meta-analysis of Mycobacterial infections in patients with idiopathic inflammatory myopathies, *Rheumatology*, 2022. https://doi.org/10.1093/rheumatology/keac041.

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

i. Invited to present a paper in International Symposium on Probability and Statistics: New Frontiers", Celebrating 75 years of Calcutta Statistical Association, organized jointly by Calcutta Statistical Association and Department of Statistics, University of Calcutta during August, 2022

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

| Committee | Position held | Work done/ Activity |
|---|---|---|
| Publication Committee | Member | To contribute towards the works related to the publication of the newsletter of the university |

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 | Acting as a "Ethics Committee Member" of Institute of Pulmocare and Research |

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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|---|---|
| 1 | |
| 2 | |

# Dr. Hare Krishna Maity

1] Name: Hare Krishna Maity

2] Designation: Assistant Professor

3] Qualification: Ph.D.

4] Teaching experience (in years): 7 years

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

15

The academic year (provide list in separate sheet): 0

8] Contribution to enrich quality of teaching-learning
during the academic year:
(Seminars / Workshops / lectures / field visits organized):0

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):

| 1 | |
|---|---|
| 2 | |

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

| 1 | |
|---|---|
| 2 | |

# Dr. Debashis Samanta

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

2] Designation: **Assistant Professor**

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

4] Teaching experience (in years): **9 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): 1

   i.   Debashis Samanta, Debasis Kundu; Inference of a dependent competing risk model under step-stress
        stage life testing, Journal of Statistical Computation and Simulation, 2023.

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):

| 1 | |
|---|---|
| 2 | |

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

| 1 | |
|---|---|
| 2 | |

# Sultan Parveen

1] Name: **Sultan Parveen**

2] Designation: **Assistant Professor**

3] Qualification: M.Sc. (Statistics), Ph.D (pursuing)
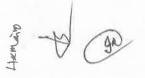
4] Teaching experience (in years): **6 years**

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:

17

| Committee | Position held | Work done/ Activity |
|---|---|---|
| BoS | Member | Attended several meetings:<br>I.   for framing PG CBCS syllabus<br>II.   Courses designed and revised |
| Departmental Committee | Member | Performed activities as per the need of the department |
| Hostel Management Committee | Member | Attended meetings |

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):

| 1 | |
|---|---|

# Academic Practices

## Academic Practices (for the academic year: 2022-23)

1] Total number of teaching-days in the academic year: 160

2] Total number of permanent teaching staff: 15

3] Total number of permanent teaching staff with PhD:  14

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:126

| Program | Intake | Admission |
|---|---|---|
| M.Sc. in Mathematics (2 yrs) | 60 | 57 |
| M.Sc. in Statistics (2 yrs) | 60 | 19 |

| | | |
|---|---|---|
| B.Sc. (Hons) in Mathematics | 60 | 50 |
| B.Sc. (Hons) in Statistics | 60 | 0 |

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: 2022-23)

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      Yes

7] Weekly class hour per course (average):      24 hours
(Weekly 4 hours per 4 credit theory and weekly 6 hours per 4 credit practical course)
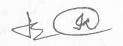
8] Whether remedial/ tutorial classes included in class routine?

Yes

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

Yes

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

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

Appeared: 248
Passed: 200

## Research output (for the academic year: 2022-23)

1] Does the department offer MPhil/ PhD/ Post-Doctoral Programme:
(Please specify): Ph.D. in Mathematics and Ph.D. in Statistics

Yes

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

3

3] Number of publications in refereed & peer-reviewed journals: 25

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 NIL

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:

20

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         Organized by AU
Soft-skill and Personality development?

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): 3

12] Please indicate the number of students those have progressed for higher studies (for the specific period):
80

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