Aliah University

Academic Audit
Department of CSE

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

Aliah University

<u>Academic Audit</u>

Department of Computer Science and Engineering

(Session 2018-19)

Dr. Souvik Sengupta

Dr. Abhishek Das

Dr. Sk MdObaidullah

Dr. Sk Md Mosaddek Hossain

Dr. Zeenat Rehena

Sk Golam Sarowar Hossain

Dr. Ayatullah Faruk Mollah

Dr. Sumanta Roy

Dr. Tapas Bhadra

Dr. Khondekar Lutful Hassan

Dr. Saiyed Umer

Dr. Md Azharuddin

Mrs. Amina Khatun

Mrs. Moumita Chatterjee

Mr. Zafar Sarif

Mr. Ahsan Mullick

Dr. Nashreen Nesa

Minutes of Departmental Committee Meeting
Department of Computer Science & Engineering, Aliah University
Date: 02.12.21, 1:00 PM Venue: CSE HoD Room

Members Present

1	Dr. Souvik Sengupta	HoD, Chairman
2	Dr. Abhishek Das	Member
3	Dr. Sk Md Obaidullah	"
4	Sk Md Mosaddek Hossain	"
5	Sk Golam Sarowar Hossain	"
6	Dr. Zeenat Rehena	"
7	Dr. Ayatullah Faruk Mollah	"
8	Dr. Sumanta Ray	"
9	Dr. Tapas Bhadra	"
10	Mr. Khondekar Lutful Hassan	"
11	Dr. Saiyed Umer	"
12	Dr. Md Azharuddin	"
13	Mrs. Amina Khatun	"
14	Mrs. Moumita Chatterjee	"
15	Mr. Zafar Sarif	"
16	Mr. Ahsan Mullick	"
17	Dr. Nashreen Nesa	"

Agenda:

1. Constitution of Departmental Academic Audit Committee
2. Misc (if any)

Resolution of the Meeting:

1. It is decided that all the faculty members of the department should be a member of the departmental academic audit committee
2. The departmental academic audit report should be prepared and signed within Aug-Sept of each year

Dr. Souvik Sengupta 02.12.21

Dr. Abhishek Das 2.12.21

Dr. Sk Md Obaidullah 02/12/21

Dr. Sk Md Mosaddek Hossain 02/12/21

Sk Golam Sarowar Hossain 02/12/21

Dr. Zeenat Rehena 02.12.21

Dr. Ayatullah Faruk Mollah 02/12/21

Dr. Sumanta Roy 02/12/21

Dr. Tapas Bhadra 02.12.21

Mr. Khondekar Lutful Hassan 02-12-21
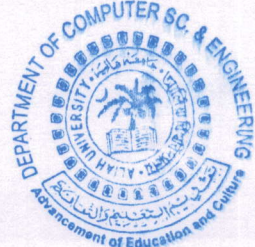
Dr. Saiyed Umer 02/12/21

Dr. Md Azharuddin 02.12.21

Mrs. Amina Khatun 02/12/2021

Mrs. Moumita Chatterjee 02/12/21

Mr. Zafar Sarif 02/12/21

Mr. Ahsan Mullick 02/12/2021

Dr. Nashreen Nesa 2/12/21

Academic Management

Information about HOD

1] Name: **Dr. Abhishek Das**

2] Designation: Associate Professor, Dept. of Computer Sc. & Engineering

3] Qualification: Ph.D, M.S. (USA), B.Tech

4] Teaching experience (in years): 15

5] Industry experience (if any in years): 01

6] Number of teaching hours per week: 17

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

Pls see Annexure

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

Pls see Annexure

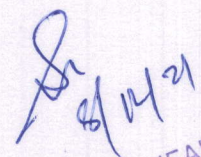9] Contribution to the growth and development of the University during the academic year:**Pls see Annexure**

No. of Patents: **8 (Eight),** No. of Copyright: **1(one)**

10] Other responsibilities (Please specify, add rows if required):**Pls see Annexure**

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

Journals

1. Samit Bhanja and **Abhishek Das**, "Deep Learning-based Integrated Stacked Model for the Stock Market Prediction", International Journal of Engineering and Advanced Technology(IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1, 2019, (**Scopus** Indexed).

2. **Abhishek Das**, Rukhsana, Paramita Chatterjee, "Green Manufacturing: Progress and Future Prospect", Reference Module in Materials Science and Materials Engineering, **Elsevier**, 2019, ISBN 9780128035818, vol. 3, pp. 501-512 https://doi.org/10.1016/B978-0-12-803581-8.11007-0
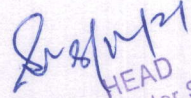
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Conference Proceedings:

1. Samit Bhanja, Abhishek Das, "Data Normalization optimisation on Deep Neural Network for Time Series Forecasting" Proceedings of Conference on Advancement in Computation, Communication and Electronics Paradigm (ACCEP2019), pp-27-31, 2019, ISBN : 978-81-940096-0-3

2. Dildar Ali, Abhishek Das, "Face Detection and Eye Extraction using Canny Edge Detection and Hough Transform", Proceedings of Conference on Advancement in Computation, Communication and Electronics Paradigm (ACCEP2019), pp-14-18, 2019, ISBN : 978-81-940096-0-3

3. Rozina Khatoon, Abhishek Das, "A Survey on Image Segmentation Techniques", Proceedings of Conference on Advancement in Computation, Communication and Electronics Paradigm (ACCEP2019), pp-2-9, 2019, ISBN : 978-81-940096-0-3

Talks/ KeyNote Speaker/ Session Chair

1. Invited Talk on " Medical Image Processing" at the 7th International conference on Computing, Communication and Sensor Network Conference on 27th October, 2018 at Biswa Bangla Convention Centre, New Town, Kolkata.
2. Session Chair at the 7th International conference on Computing, Communication and Sensor Network Conference (CCSN2018) on 28th October, 2018 at Kolkata.
3. Session Chair at the 2nd International Conference on Computational Advancement in Communication circuit and System (ICCACCS-2018), on 23 Nov 2018 at Kolkata.
4. Invited Speaker at the UGC HUMAN RESOURCE DEVELOPMENT CENTRE (Erstwhile UGC Academic Staff College), University of **North Bengal**, at the **Refresher Course in Computer Science** from 04.01.2019 to 24.01.2019.
5. Invited Speaker at 6th Annual **World Congress of InfoTech**-2019 held at Holiday Inn – Nanjing Qinhuai South, **Nanjing, China**
6. Title: Big Data Challenges for the Internet of Things (IoT) Paradigm
7. Session Chair at 6th International Conference on Microelectronics , Circuits and Systems (Micro-2019) on 7th July, 2019, in Kolkata.
8. External **Examiner** for M.Tech Examination at Assam University, Silchar(A Central University) on 19th July,2019.

9. Invited Speaker on " The essence of Technical Education" at AICTE recommended Students Induction Program by Institute Induction Program Cell (IIPC) , Aliah University, Kolkata on 16 Nov 2021

10. Invited Speaker on " Can Technology reduce the Gender Biasness" at the Seminar on International Woman's Day by Dept. of Nursing, Aliah University, Kolkata on 8 Mar 2022.

11. Session Chair in the 7th International Conference on Emerging Applications of Information Technology (EAIT 2022) organised by CSI Kolkata in March 2022

12. Session Chair at the 1st International Conference Human-Centric Smart Computing (ICHCSC 2022) on April 2022

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Administrative Responsibilities:

Member of the **Internal Quality Assurance Cell (IQAC)** of **Aliah University, Kolkata**.(Jul 2019- till date)

Head of the Department (HoD) , Dept. of Computer Sc. & Engineering at **Aliah University, Kolkata** (Oct 2017 -Nov 2019)

Member of the **Academic Council** at **Aliah University, Kolkata** (Apr 2018 -Nov 2019)

Chairman of Board of Studies(BOS), Dept. of Computer Sc. & Engineering at **Aliah University, Kolkata** (Oct 2017 -Nov 2019)

Chairman of Departmental Purchase Committee , Dept. of Computer Sc. & Engineering of **Aliah University, Kolkata** (Sep 2018 -Nov 2019)

Chairman of UGC 12B Visit Facilitation Committee at **Aliah University , Kolkata**

Expert for Inspection of Colleges (both AICTE & Non-AICTE) affiliated to **Maulana Abul Kalam Azad University of Technology** (formerly **WBUT**), **West Bengal** (under Govt. of West Bengal) (Mar 2018- till date)

Chairman of **Doctoral Research Committee (DRC)**, Dept. of Computer Sc. & Engineering Aliah University, Kolkata. (Oct 2017- Nov 2019)

Chairman of **Doctoral Scrutiny Committee (DSC)**, Dept. of Computer Sc. & Engineering , Aliah University, Kolkata. (Oct 2017- Nov 2019)

Chairman of University Purchase Committee (Computers and Software) at**Aliah University , Kolkata** (Oct 2017 to Sep 2018)

Member of **AICTE Central Committee** at Aliah University , Kolkata. (Oct 2017 - Nov 2019)

Member of Committee for **"Advanced Planning for making expenditure in next Financial Year"** at Aliah University , Kolkata. (Nov 2018- till date)

Chairman ofCommittee for **"Internship Program for Technical Graduates"** at Aliah University, Kolkata. (Nov 2018- Nov 2019)

Member of **Central Instrumentation Committee** atAliah University , Kolkata. (May 2018- till date)

Others:

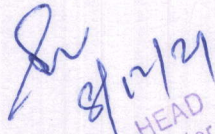## Best Practices in Teaching/ Learning:

1- I maintain good communication and interpersonal skills

2- Get students engaged

3- Use relevant Humour

5- Give room to individualized learning

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

1] Name: KHONDEKAR LUTFUL HASSAN

2] Designation: ASSISTANT PROFESSOR

3] Qualification: M TECH

4] Teaching experience (in years): 4YEARS

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

6] Number of teaching hours per week: 16HRS

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 duringthe academic year:

Committee	Position held	Work done/ Activity

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	
2	

SCI Journal

1. Hassan, Khondekar Lutful, ,Jyotsna Kumar Mandal, and Shukla Mondal. "Enhanced Trust-based Intrusion Detection System in MANET." Journal of Scientific & Industrial Research Vol. 78, August 2019, pp. 509-512
2. Hassan, Khondekar Lutful, and Jyotsna Kumar Mandal," Risk Factor Based Ad-hoc On Demand Multipath Distance Vector Routing Protocol (RF-AOMDV)" Journal of Scientific & Industrial Research Vol. 78, November 2019, pp. 746-750.
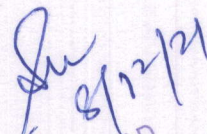
SCOPUS/UGC Approved Journals:

1. Mondal, Shukla, and Khondekar Lutful Hassan. "Performance Analysis of MANET under Rushing Attack." International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-4, November 2019. ISSN: 2277-3878, Pp 8506-8510.
2. Hassan, Khondekar Lutful, J. K. Mandal, Md Saquib Zia, and Deepshikha Shaw. "Detection of Blackhole Attack Using RMBOPB Based Agent." , International Journal of Computer Sciences and Engineering, Vol.7, Special Issue.1, Jan 2019 E-ISSN: 2347-2693 pp. 170-178.

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

1] Name: Ayatullah Faruk Mollah

2] Designation: Assistant Professor

3] Qualification:PhD(Engg)

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4] Teaching experience (in years): 6 years

5] Industry experience (if any in years): 2 years

6] Number of teaching hours per week: 18

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

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
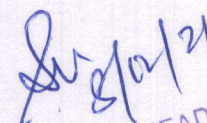University duringthe academic year:

Academic Session 2018-2019

Committee	Position held
Institute Induction Programme Cell (IIPC), Aliah University	Chairman
Doctoral Scrutiny Committee of Md. Ashifuddin Mondal, and Sk. Golam Sarowar Hossain, CSE Dept., AU	Member
Departmental Research Committee , CSE Dept., AU	Member
Departmental Research Committee , ECE Dept., AU	Convener
Board of Studies, Dept. of Computer Science & Engineering, Aliah University	Member
Board of Studies, Dept. of Electronics and Communication Engineering, Aliah University	Member
Board of Studies, Dept. of Mathematics and Statistics, Aliah University	Member
Smart Class Setup Committee , Aliah University	Chairman

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

Annexure A

Research Projects

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Academic Session 2017-2018

1. **Co-Principal Investigator (Co-PI)**, Extra-Mural Project entitled "Multi-lingual Text Analytics for Camera-based Handheld Devices", funded by Department of Science and Technology (DST), Govt. of India.

Publications

Academic Session 2017-2018

[1] M. H. Mahalat, **A. F. Mollah**, S. Basu and M. Nasipuri, "Design of novel post-processing algorithms for handwritten Arabic numerals classification", *Int. J. of Applied Pattern Recognition*, vol. 4, no. 4, pp. 342-357, Inderscience, 2017 [**ISSN(Print): 2049-887X, ISSN(Online): 2049-8888, ESCI, DBLP, UGC**].

[2] **A. F. Mollah**, S. Basu and M. Nasipuri, "An Automatic Annotation Scheme for Scene Text Archival Applications", in *Advances in Computing and Data Sciences*, M. Singh, P. K. Gupta, V. Tyagi, J. Flusser, T. Ören (Eds.), **Springer Nature**, CCIS, vol. 906, pp. 66-76, April 20-21, 2018, **ISBN: 978-981-13-1813-9** [Scopus].

[3] T. Khan and **A. F. Mollah**, "Distance Transform based Stroke Feature Descriptor for Text Non-text Classification", in *Recent Developments in Machine Learning and Data Analytics*, J. Kalita, V.E. Balas, S. Borah, R. Pradhan (Eds.), pp. 189-200, **Springer Nature**, AISC, vol. 740, Mar 23-24, 2018, **ISBN: 978-981-13-1279-3** [Scopus].

[4] I. N. Dutta, N. Chakraborty, **A. F. Mollah**, S. Basu and R. Sarkar, "Multi-Lingual Text Localization from Camera Captured Images based on Foreground Homogeneity Analysis", in *Recent Developments in Machine Learning and Data Analytics*, J. Kalita, V. E. Balas, S. Borah, R. Pradhan (Eds.), pp. 149-158, **Springer**, AISC, vol. 740, Mar 23-24, 2018, **ISBN: 978-981-13-1279-3** [Scopus].

[5] M. Jajoo, N. Chakraborty, **A. F. Mollah**, S. Basu and R. Sarkar, "Script Identification from Camera Captured Multi-script Scene Text Components", in *Recent Developments in Machine Learning and Data Analytics*, J. Kalita, V. E. Balas, S. Borah, R. Pradhan (Eds.), pp. 159-166, **Springer**, AISC, vol. 740, Mar 23-24, 2018, **ISBN: 978-981-13-1279-3** [Scopus].

[6] T. Khan, **A. F. Mollah**, "A Novel Text Localization Scheme for Camera Captured Document Images", Proc. Second International Conference on Computer Vision and Image Processing and Workshop on Multimedia (CVIP-WM), pp. 213-223, **Springer Nature**, AISC, IIT Roorkee, India, Sep 9-12, 2017, **ISBN: 978-9811078972** [Scopus, DBLP].

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

1] Name: **Dr. SAIYED UMER**

2] Designation: **Assistant Professor Stage 1**

3] Qualification: **Ph.D.**

4] Teaching experience (in years): **2 years**

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

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6] Number of teaching hours per week: **40 hours**

7] Publications:

1. Ranjeet Kumar Rout, SK Sarif Hassan, Sanchit Sindhwani, Hari Mohan Pandey, **Saiyed Umer**, Intelligent Classification and Analysis of Essential Genes Species Using Quantitative Methods, **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), (SCIE). (IF: 3.275)**

2. **Saiyed Umer**, AlamgirSardar, Bibhas Chandra Dhara, Ranjeet Kumar Rout, Hari Mohan Pandey, "Person identification using fusion of iris and periocular deep features", **Neural Network (Elsevier) (SCI) (IF: 5.785)**
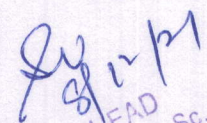
3. **Saiyed Umer**, Bibhas Chandra Dhara, and BhabatoshChanda, "Face Recognition using Fusion of Feature Learning Technique", **Measurement (Elsevier) (SCI). (IF: 2.218)**

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

1	Setting Question Papers for End-Term Theory Exam (2 Nos.)
2	Performed invigilation duty at End-Term Theory Exam.
3	Conducting Practical Exam.
4	Conducting Project Presentation & Viva Voce
5	Conducting Grand Viva Evaluation
6	Conducting Seminar Presentation
7	Evaluating Answer Scripts
8	Updating of Courses/Curriculum Design
9	Use of ICT or Computer-aided methods – ppt
10	Taking and conducting several Lectures, Practical, and Projects for the students

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

Committee	Position held	Work done/ Activity
Departmental Examination Committee	Coordinator	Managing all the semester Examinations
Departmental Board of studies	Member	Work done
Departmental Research Committee (DRC)	Member	Work done
Syllabus Enrichment Committee	Member	Work done

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Departmental Examination Committee	Member	Work done
Central Maintenance Committee	Member	Work done
Central Examination Committee	Member	Work done

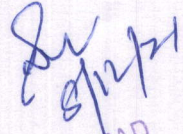10. Other responsibilities (Please specify, add rows if required):

1	Remedial Classes
2	Career counseling
3	Member of Doctoral Scrutiny Committee for several Research Scholars
4	Checked and verified students' Semester Grade Cards for various courses

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

1	Research Guidance to the following M.Tech students: 1. Somnath Dhibar (M.Tech. 2018): Face Spoofing Recognition Using Invariant of Local Features of Images.

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

1] Name: **ZEENAT REHENA**

2] Designation: ASSISTANT PROFESSOR

3] Qualification: PhD(Engg.)/ Post Doc

4] Teaching experience (in years): 7 years

5] Industry experience (if any in years): 1 year

6] Number of teaching hours per week: 16 + 4 (Project work)

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 duringthe academic year:
10] Other responsibilities (Please specify, add rows if required): **2017-2022**
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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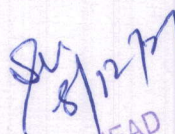**Sl No. 7. Number of Research Projects/Publications/Study material developed during the academic year 2018-2019**

Academic year	Projects/Publications/Study material
2018 -2019 **Total Publications = 03**	**Journals:** **Nil** **Conference Proceedings:** 1. MdAshifuddin, **Zeenat Rehena,** "Intelligent Traffic Congestion Classification System Using Artificial Neural Network", **In 5th AW4City,** Enhancing Urban Mobility with Web Applications (WWW2019), San Francisco, MAY 13, 2019. 2. MdAshifuddin, **Zeenat Rehena,** "Identifying Traffic Congestion Pattern using K-means Clustering Technique", in 4th International Conference on **Internet of Things: Smart Innovation and Usages (IoT-SIU 2019), IEEE,** 18-19 April, Ghaziabad, India. 3. Ahmad Luthfi, **Zeenat Rehena,** Marijn Janssen, and JoepCrompvoets, "A Fuzzy Muti-Criteria Decision Making Approach for Analyzing the Risks and Benefits of Opening Data", in I3E 2018 Internaional Conference (LNCS, Springer), on 30th October-1st November, 2018, at Gulf University for Science and Technology, Kuwait.

Sl No. 8: Contribution to enrich quality of teaching-learning during the academic year: 2018-2019Nil

Sl No. 9 Contribution to the growth and development of the University during the academic year: 2018-2019

Committee	Position held	Work done/ Activity
Departmental Research Committee	Member	Yes, Since 21.11.2016
Computer Networking Committee	Convenor	Yes, Since 19.09.2018
University SC/ST Committee	Chairperson	Yes

Sl. No. 10 Other responsibilities (Please specify, add rows if required): 2018-2019

1	Coordinator of Dept. Time Table Committee
2	Coordinator of PhD Coursework
3	Dept. Student's Project Coordinator

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

1] Name: Sk Golam Sarowar Hossain

2] Designation: Assistant Professor

3] Qualification: M.Tech

4] Teaching experience (in years):   12 Years

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

6] Number of teaching hours per week: 21

7] Number of Research Projects/Publications/
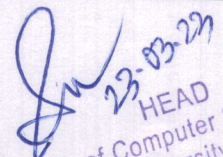Study material developed during
8] Contribution to enrich quality of teaching-learning
duringthe academic year:
(Seminars/Workshops/lectures/field visits organized):

1. 2-day technical workshop on "Storage and office management using Google Cloud Platform (GCP) Services" on 20th & 21st March 2021
2. One day International Seminar on Trend in Artificial Intelligence and Machine Learning Research on 7th January, 2020.
3. Two - Day Workshop on Scientific Document Writing Using Latex during 11 - 12 February, 2017.
4. Current Trends in Cloud Computing, 9th August, 2016

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

Committee	Position held	Work done/ Activity
Hostel Management Committee , 2017- till date	Member	To resolve hostel related issues through meetings resolution and implementation.
Warden of Newtown Boys' Hostel 2017 – till date	Hostel Warden	Hostel Warden
Warden of Chingrighata Boys' Hostel 2017 – 2021	Hostel Warden	Hostel Warden
Computer Network Committee 2017-19	Member	Address internet related issues and LAN infrastructures of all campus of the University.
Syllabus enriching Committee	Member	Contribute in designing the curricula of different course and detailed syllabus of various subjects.
Anti-ragging Committee 2017-	Member	Take part actively to nullify the incidence of ragging in the University.

| Routine Committee 2017 | Member | Prepare the departmental routine for all courses with the help of other members. |
| Different departmental Committee | Member | Task related to the Committee was performed on day to day basis. |

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	Chalk and talk during offline classes. Online classes on goggle-meet platform and supply the link of recording of online classes during lock down. Provide lecture notes to the students.
2	Sometime taking extra session with small group especially for weaker students/students not performing well.
3	Help authority to increase the hostel seats after inspecting different types of rooms in the hostel physically to handle the huge demand for the same.

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

1] Name:**Dr. Sk Md Obaidullah**

2] Designation:**Associate Professor**

3] Qualification:**PhD, Post-Doc**

4] Teaching experience (in years):**10 Years**

5] Industry experience (if any in years):

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):
Journal

1. Himadri Mukherjee, Sk Md Obaidullah, Shantanu Padhikar, Kaushik Roy, "MISNA - A Musical Instrument Segregation System from Noisy Audio with LPCC-S Features and Extreme Learning", in Multimedia Tools and Applications (MTAP), Springer, 2018 [Impact Factor: 2.757] (SCI/SCIE journal)

2. Sk Md Obaidullah, K C Santosh, Nibaran Das, Chayan Halder, Kaushik Roy, "Handwritten Indic script identification in multi-script document images - a survey", in International Journal of Pattern Recognition & Artificial Intelligence (IJPRAI), World Scientific, Vol. 32, No. 10 (2018) 1856012 (26 pages), 2018 [Impact Factor: 1.373] (SCI/SCIE journal)

3. Chayan Halder, Sk Md Obaidullah, K C Santosh, Kaushik Roy, "Content independent writer identification on Bangla script: A document level approach", in International Journal of Pattern Recognition & Artificial Intelligence (IJPRAI), World Scientific, Vol. 32, No. 09 (2018) 1856011 (24 pages), 2018 [Impact Factor: 1.373] (SCI/SCIE journal)

4. Sk Md Obaidullah, Amitava Bose, Himadri Mukherjee, K C Santosh, Nibaran Das, Kaushik
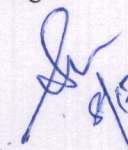
Roy, "Extreme learning machine for handwritten Indic script identification in multi-script documents", in Journal of Electronic Imaging, SPIE, 27(5), 051214 (2 April 2018), [Impact Factor: 0.945] (SCI/SCIE journal) 34. Himadri Mukherjee, Sk Md Obaidullah, K C Santosh, Shantanu Padhikar, Kaushik Roy, "Line spectral frequency-based features and extreme learning machine for voice activity detection from audio signal", in International Journal of Speech Technology (IJST), Springer, 2018 (indexed in SCImago/ Scopus/ESCI)

5. Sk Md Obaidullah, K. C. Santosh, Chayan Halder, Nibaran Das, Kaushik Roy, "Automatic Indic script identification from hand written documents: page, block, line and word-level approach" in Journal of Machine Learning and Cybernetics (JMLC), Springer, 2017 [Impact Factor: 4.012] (SCI/SCIE journal)

Conference

1. Himadri Mukherjee, Md Obaiduallh Sk, K.C. Santosh, Teresa Gonçalves, Santanu Phadikar and Kaushik Roy, "Segregation of Speech, Music and Instrumentals with LSF-RG features", in 12th International Conference on Software, Knowledge, Information Management & Applications (SKIMA-2018), Phnom Penh, Cambodia, proceedings by IEEE

2. Himadri Mukherjee, Ankita Dhar, Sahana Das, Md Obaiduallh Sk, K.C. Santosh, Santanu Phadikar and Kaushik Roy, "An Ensemble Learning-based Language Identification System", in 2nd International Conference on Computational Advancement in Communication circuit and System (ICCACCS-2018), Kolkata, proceedings by Springer

3. Himadri Mukherjee, Ankita Dhar, Md Obaiduallh Sk, K.C. Santosh, Teresa Gonçalves, Santanu Phadikar and Kaushik Roy, "Identification of top-3 spoken Indian languages: An Ensemble learning-based approach", in Fourth International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN-2018), Kolkata, proceedings by IEEE

4. Subhasmita Ghosh, Himadri Mukherjee, Md Obaidullah Sk, Santosh Kc, Nibaran Das and Kaushik Roy, "A Survey on Extreme Learning Machine and Evolution of its Variants", in International Conference Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur University, Maharastra, India, proceedings by Springer

5. Mridul Ghosh, Md Obaidullah Sk, Santosh Kc, Nibaran Das and Kaushik Roy, "Artistic multi-character script identification using iterative isotropic dilation algorithm", in International Conference Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur University, Maharastra, India, proceedings by Springer

6. Sahana Das, Himadri Mukherjee, Md Obaiduallh Sk, K.C. Santosh, Kaushik Roy and Chanchal Kumar Saha, "Recurrent Neural Network Based Classification of Fetal Heart Rate using Cardiotocograph", in International Conference Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur University, Maharastra, India, proceedings by Springer

7. Himadri Mukherjee, Moumita Dutta, Sk Md Obaidullah, K.C. Santosh, Santanu Phadikar and Kaushik Roy, "A speaker identification system from short utterances ", in International Conference Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur University, Maharastra, India, proceedings by Springer

8. Himadri Mukherjee, MoumitaDutta, Sk Md Obaidullah, K.C. Santosh, Santanu Phadikar and Kaushik Roy, "Lazy learning based segregation of top-3 South Indian languages with LSF-A feature", in

9. International Conference Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur University, Maharastra, India, proceedings by Springer

10. H Wang, Fawwad Hussain, Himadri Mukherjee, Sk Md Obaidullah, RabindraHegadi, Kaushik Roy and K.C. Santosh "An Empirical Study: ELM in Face Matching", in International Conference Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur University, Maharastra, India, proceedings by Springer

11. Md Sajib Ahmed, Md Obaidullah Sk, Mohan Jayatilake, Teresa Gonçalves and LuísRato, "Texture analysis from 3D model and individual slice extraction for tuberculosis MDR detection, type classification and severity scoring", in CLEF 2018 Conference and Labs of the Evaluation Forum Information Access Evaluation meets Multilinguality, Multimodality, and Visualization, Avignon, France, proceedings by Lecture Notes for Computer Science (LNCS) Springer

12. Himadri Mukherjee, Sk Md Obaidullah, Shantanu Padhikar, Kaushik Roy, "A Dravidian Language Identification System", in 24th International Conference on Pattern Recognition (ICPR 2018), Beijing, China, proceedings by IEEE

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

1. One day International Seminar on Trends in Artificial Intelligence & Machine Learning Research (TAIMLR-2020)
   Date: 07-01-2020
   Role: Convener

2. An International Talk on Selected Topics on Research Methodology
   Date: 04-09-2020
   Role: Chairman

3. International Webinar on Recent Advances on High Performance Distributed Computing
   Date: 08-08-2020
   Role: Chairman

9] Contribution to the growth and development of the
   1. University during the academic year:
   2. AU Hostel LAN tender Committee   dated 12.12.2019
   3. Chairman CSE dept. purchase Committee   dated 10.12.2019 to till date
   4. Member of NAAC core Committee   dated 16.04.2019 to till date
   5. Member AICTE Committee   dated 26.12.2019 to till date
   6. Co-Chairman High Performance Computer Cluster Committee   dated 09.07.2019 to till date
   7. HOD, Dept. of CSE dated 05.11.2019 to 12.11.2021
   8. Convener ERP Committee   dated 18.12.2019 to till date
   9. CSE TA selection Committee   expert dated 12.02.2020
   10. Jt. Convener of Technical Committee   for online classes dated 26.08.2020 to till date
   11. NAAC Cat-II sub-Committee   dated 01.12.2020 to till date
   12. NAAC Cat-III Research, Innovation and Extension dated 02.11.2020 to till date
   13. Member Institution Industry Cell dated 13.10.2020 to till date
   14. Chairman BoS, Dept. of CSE dated 30.09.2020 and 18.02.2021 to 12.11.2021

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):

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

1] Name: Dr. Sumanta Ray

2] Designation: Assistant Professor

3] Qualification: Ph.D. (Engg.)

4] Teaching experience (in years): 5 yrs

5] Industry experience (if any in years): 1 year

6] Number of teaching hours per week: 24 hours

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

S.Biswas, **S. Ray*** and S.Bandyopadhyay, "Colored Network Motif Analysis by Dynamic Pro-grammingApproach:AnApplicationinHost-PathogenInteractionNetwork", **IEEE/ACMTransactionsonComputationalBiology and Bioinformatics**, 10.1109/TCBB.2019.2923173(2019, **Impactfactor:2.42**)

S M.Hossain, A.Mukhopadhyayand **S.Ray***, "Detecting hub gene sand key modules in stomach adenocarcinoma using nsNMF based data integration technique", **IEEE**

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

3	Organized the national seminar on "**Preparation and Publication of Research Articles**" held at Department of Computer Science & Engineering, Aliah University, Kolkata on 18th March, 2019.
7	Attended 4 weeks UGC Sponsored **Orientation Programme** at **Human Resource Development Centre (HRDC) of University of Burdwan** from **4th September 2018 to 1st October 2018**.
10	Attended MicroCom 2016: International Conference on Microelectronics, Computing and Communication
11	Attended 7th International Conference on Pattern Recognition and Machine Intelligence (PReMI 2017)

23-3-23

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

Committee	Position held	Work done/ Activity
Examination and Admission	Member	All the examinations and admission related matters
Central Time table Committee	Member	All matters related to the time-table.
Doctoral Research Committee	Member	Doctoral admission and activity
Syllabus Enrichment	Member	Any matters related to syllabus and curriculum
Departmental NAAC Core Committee :	Member	Deal with all NAAC related departmental data processing department for upcoming NAAC evaluation process.
Computer Purchase Committee	Chairman	All purchase related to computer and software.
Training and placement Committee	Member	Matters related to training and placement

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

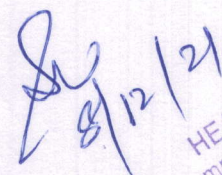|	
1	Served as Resource person at Two days Workshop in KalyaniMahavidyalaya, University of Kalyani, Kalyani, India, August, 2018
2	Served a resource person at one day workshop in Department of Computer Science, New Alipore College, West Bengal, India, 2017
3	Career counselling
4	Remedial classes
5	Member of Doctoral Scrutiny Committee for several Research Scholars
6	Checked and verified students' Semester Grade Cards for various courses
7	Reviewer for several prestigious journals such as Briefings in Bioinformatics – IEEE/ACM Transactions on Computational Biology and Bioinformatics – BMC Bioinformatics – Nature Communications Biology – PLOS ONE – Algorithms for Molecular Biology – IEEE Transactions on Nanobioscience – Scientific Report etc.
8	Reviewer for the conferences

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

1	Research Guidance to the following M.Tech students: A. Detecting Co-expressed Modules in Gene Co- expression Network: A WCGNA based ComparativeStudy---submitted in August, 2015 B. COMPUTATIONAL PREDICTION OF HCV- HUMAN PROTEIN-PROTEIN INTERACTION: A SOFT COMPUTING BASED APPROACH—submitted in August, 2016 C. DETECTING AND ANALYSIS OFCO-EXPRESSION MODULES IN HIV DISEASE PROGRESSION—submitted in August, 2015 D. An Anti-Jamming Protocol Based onSecret Reallocation of Channels—submitted on August, 2016. E. A Matrix Factorization Approach for Integrating Multiple Data Views—submitted in August, 2016. F. A GA based Framework For Detection of Differentially Coexpressed Module, 2017.
2	Setting Question Papers for End-Term Theory Examinations
3	Performed invigilation duty at End-Term Theory Examinations
4	Conducted Practical Examinations
5	Conducted Project Presentation & Viva Voce
6	Conducted Grand Viva Evaluation
7	Conducted Seminar Presentation
8	Evaluated Answer Scripts
9	Updated Courses/Curriculum Design
10	Prepared Syllabus for B.Tech., M.Tech., BCA and MCA programmes
11	Involved as a member of Departmental Examination and Admission Committee to take care of all examinations and admission related matters
12	Conducted several Lectures, Practicals, and Projects for the students

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

1] Name: Dr. Md Azharuddin

2] Designation: Assistant Professor

3] Qualification: Ph.D

4] Teaching experience (in years): 4

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

6] Number of teaching hours per week: 15

7] Number of Research Projects/Publications/
Publications:

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1. Nath, Tathagata, and Md Azharuddin. "Application of wireless sensor networks for Rhino protection against poachers in Kaziranga National Park." *AEU-International Journal of Electronics and Communications* 111 (**2019**): 152882.

2. Sabnur Rahaman, Md Azharuddin, Md Kamaruzzaman*, "An on-demand scheduling scheme for mobile charger in wireless rechargeable sensor networks ", international Jornal of Mechatronics, Electrical and Computer Technology. IEEE. Vol 10(38). Oct. **2020**, PP. 4779 – 4782.

3. Rahaman, Sk Md Abidar, and Md Azharuddin. "A cluster based charging schedule for wireless rechargeable sensor networks using gravitational search algorithm." Wireless Networks 28.7 (**2022**): 3323-3336.

4. Rahaman, Md Mohinur, and Md Azharuddin. "Wireless sensor networks in agriculture through machine learning: A survey." Computers and Electronics in Agriculture 197 (**2022**): 106928.

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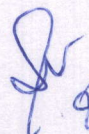(Seminars/Workshops/lectures/field visits organized):

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

Committee	Position held	Work done / Activity
a. Member of Departmental Board of studies	Members	
b. Member of Departmental Research Committee (DRC)	Members	
	Members	
c. Member of Syllabus Enrichment Committee	Members	
d. Member of Departmental Examination Committee	members	
e. Member of Central Maintenance Committee		
f. Member of Central Examination Committee		

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

1	a. Remedial Classes
	b. Career counseling
	c. Member of Doctoral Scrutiny Committee for several Research Scholars
	d. Checked and verified students' Semester Grade Cards for various courses
	e. Attended Departmental Students' Refreshers-Welcome and Farewell programs
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)

1] Name: **Dr. Sk Md Mosaddek Hossain**

2] Designation: Assistant Professor

3] Qualification: Ph.D. (Engg.), M.Tech (Computer Science and Engineering)

4] Teaching experience (in years): 11 years

5] Industry experience (if any in years):

6] Number of teaching hours per week: 24 hours +

7]

A. Journal Papers Published

B. Conference Papers Published

C. Book Chapters Published

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

1.	Organized the national seminar on "**Preparation and Publication of Research Articles**" held at Department of Computer Science & Engineering, Aliah University, Kolkata on 18th March, 2019.
2.	Participated in the UGC Sponsored Refresher Course at HRDC, University of Calcutta during 31/12/2018 to 21/01/2019.
3.	Worked as Resource Person in One-Week Workshop On Scientific Writing (using Latex) on 24/04/2019 at University of Kalyani.

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

Committee	Position held	Work done/ Activity
1. B.Tech-CSE Coordinator	Coordinator	Career counselling, Updating curriculum and syllabus according to latest AICTE/UGC guidelines.
2. Common Engineering Curriculum Committee	Member	Updating Engineering depts. curriculum and syllabus according to latest AICTE/UGC guidelines.
3. Time Table Committee	Member	Preparing class routine of all the courses run by CSE department since 2011.

4. Departmental Purchase Committee	Member	Purchase related activities of the department.
5. Syllabus Enrichment	Member	Any matters related to syllabus and curriculum
6. Project Coordinator	Coordinator	Counselling and allocating students in academic projects

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

1	Career counselling
2	Remedial classes
3	Checked and verified students' Semester Grade Cards for various courses
4	Reviewer for several prestigious journals
5	Reviewer for the conferences

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

1	Research Guidance to the following M.Tech students:
	  A. Rumman Ansari
	  B. InzamamulHaque

2	Projects Guidance for B.Tech, MCA students
3	Setting Question Papers for End-Term Theory Examinations
4	Performed invigilation duty at End-Term Theory Examinations
5	Conducted Practical Examinations
6	Conducted Project Presentation & Viva Voce
7	Conducted Grand Viva Evaluation
8	Conducted Seminar Presentation
9	Evaluated Answer Scripts
10	Updated Courses/Curriculum Design
11	Prepared and Updated Syllabus for B.Tech., M.Tech., BCA and MCA programmes
12	Conducted several Lectures, Practicals, and Projects for the students

C. Book Chapters Published

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:

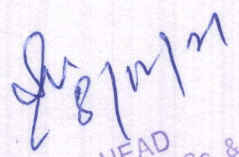| Committee	Position held	Work done/ Activity
1. B.Tech-CSE Coordinator	Coordinator	Career counselling, Updating curriculum and syllabus according to latest

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2. Common Engineering Curriculum Committee	Member	AICTE/UGC guidelines. Updating Engineering depts. curriculum and syllabus according to latest AICTE/UGC guidelines.
3. Time Table Committee	Coordinator	Preparing class routine of all the courses run by CSE department since 2011.
4. Departmental Purchase Committee	Member	Purchase related activities of the department.
5. Syllabus Enrichment	Member	Any matters related to syllabus and curriculum
6. Departmental NAAC Core Committee :	Member	Deal with all NAAC related departmental data processing department for upcoming NAAC evaluation process.

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

1	Career counselling
2	Remedial classes
3	Member of Doctoral Scrutiny Committee for several Research Scholars
4	Checked and verified students' Semester Grade Cards for various courses
5	Reviewer for several prestigious journals like DNA and Cell Biology (indexed in SCI/SCIE), Impact Factor: 3.311. IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB: indexed in SCI/SCIE), Impact Factor: 3.71. IEEE Access (indexed in SCI/SCIE), Impact Factor: 3.367. IEEE Transactions on Emerging Topics in Computational Intelligence (indexed in SCI/SCIE), Impact Factor: 8.28. INAE Letters (Editorial Team Member).
6	Reviewer for the conferences
7	Member of International Association of Computer Science and Information Technology (IACSIT). Member of International Association of Engineers (IAENG). Member of Institute of Research Engineers and Doctors (the IRED). Member of International Computer Science and Engineering Society (ICSES).

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

1	Setting Question Papers for End-Term Theory Examinations
2	Performed invigilation duty at End-Term Theory Examinations
3	Conducted Practical Examinations
4	Conducted Project Presentation & Viva Voce
5	Conducted Grand Viva Evaluation
6	Conducted Seminar Presentation
7	Evaluated Answer Scripts
8	Updated Courses/Curriculum Design
9	Prepared and Updated Syllabus for B.Tech., M.Tech., BCA and MCA programmes
10	Conducted several Lectures, Practicals, and Projects for the students
11	Projects Guidance for B.Tech, MCA students

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

1] Name: Dr. Tapas Bhadra

2] Designation: Assistant Professor

3] Qualification: Ph.D. (Engg.)

4] Teaching experience (in years): 4 yrs

5] Industry experience (if any in years): 1 year

6] Number of teaching hours per week: 24 hours

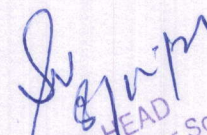7] Punlications

A. Journal Papers Published

1. SauravMallik, **Tapas Bhadra** and AyanMukherji, **"DTFP-Growth: Dynamic Threshold Based FP-Growth Rule Mining Algorithm Through Integrating Gene Expression, Methylation and Protein-Protein Interaction Profiles", IEEE Transactions on NanoBioscience**, vol. 17, no. 2, pp. 117-125, 2018. (**Impact Factor: 1.927**)

B. Conference Papers Published

C. Book Chapters Published

1. S. Mallik, **T. Bhadra**, S. Seth, S.Bandyopadhyay, and J. Chen, "Multi-Objective Optimization Approaches in Biological Learning System on Microarray Data," in *Multi-Objective Optimization,* Springer, Singapore, 2018, pp. 159-180.

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

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1	Organized the national seminar on **"Preparation and Publication of Research Articles"** held at Department of Computer Science & Engineering, Aliah University, Kolkata on 18th March, 2019.

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

Committee	Position held	Work done/ Activity
Examination	Member	All the examinations related matters
AICTE Affairs	Member	All the AICTE related issues and data fill-up.
Doctoral Research Committee	Member	Doctoral admission and activity
Syllabus Enrichment	Member	Any matters related to syllabus and curriculum
Departmental website Maintenance	Member	Deal with all the issues related to departmental website maintenances
Smart Class Room	Member	
cultural Committee	Member	

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

1	Career counselling
2	Remedial classes
3	Member of Doctoral Scrutiny Committee for several Research Scholars
4	Checked and verified students' Semester Grade Cards for various courses
5	Reviewer for several prestigious journals such as IEEE Transactions on Knowledge and Data Engineering, IEEE Systems, Man and Cybernetics: Systems, IEEE Transactions on Neural Networks and Learning Systems, Information Sciences, etc.
6	Reviewer for the conferences

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

1	Research Guidance to the following M.Tech students: C. Nasrion Nahar Pervin (M. Tech. 2019): Feature Selection Based on Multiview Learning. D. Dip Das (M.Tech. 2019): A Comparative Study of Clustering Algorithms on Parkinson's Disease Data. E. Ayesha Alam (M.Tech. 2019): A Comparative Study of Feature

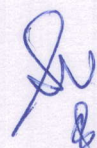|	
	Selection Algorithms on Parkinson's Disease Data.
2	Setting Question Papers for End-Term Theory Examinations
3	Performed invigilation duty at End-Term Theory Examinations
4	Conducted Practical Examinations
5	Conducted Project Presentation & Viva Voce
6	Conducted Grand Viva Evaluation
7	Conducted Seminar Presentation
8	Evaluated Answer Scripts
9	Updated Courses/Curriculum Design
10	Prepared Syllabus for B.Tech., M.Tech., BCA and MCA programmes
11	Involved as a member of Departmental Examination and Admission Committee to take care of all examinations and admission related matters
12	Conducted several Lectures, Practical's, and Projects for the students

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Academic Practices

Academic Practices (for the academic year: (2018-2019)

1] Total number of teaching-days in the academic year: 170-180 Days

2] Total number of permanent teaching staff: 11

3] Total number of permanent teaching staff with PhD: 08

4] Number of programmes offered (please specify):   04

5] Number of sanctioned intake of students and
Number of actual admissions: 138
    110

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

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

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

9] Number of academic collaborations made by the department:

10] Innovative practices (please specify):

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Teaching-Learning-Evaluation process (for the academic year: (2018-2019)

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?   NO

3] Does the programme follow:
      a. CBCS structure   YES
      b. Elective-based structure   YES
      c. Any other, please specify   YES

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   YES
      c. Interactive Boards   YES
      d. LMS   YES
      e. Any other

6] Use of ICT in Teaching-Learning-Evaluation
      a. e-books   YES
      b. e-journals   YES
      c. research database/ repositories   YES
      d. IT enabled classroom   YES
      e. Online assignment   YES
      f. Online assessment   YES
      g. Online feedback   YES

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

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: 110

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Research output (for the academic year: 2018-19)

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): 2

3] Number of publications in refereed & peer-reviewed journals: 27

4] Number of book/ edited-volume/ book-chapter published with ISBN: 16

5] Number of patents registered: 2

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

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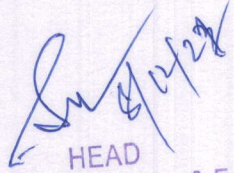State/ National/ International level:

8] Number of sponsored research projects:
      a. Completed
      b. Ongoing

9] Number of collaborative research projects:
      a. Completed
      b. Ongoing

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

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Infrastructure & facilities (departmental level)

1] Number of classrooms: 18

2] Number of ICT-enabled classrooms: 2

3] Number of laboratories: 6

4] Availability of licensed software/ databases: 11

5] Number of tutorial rooms: 2

6] Number of seminar halls: 1

7] Number of rooms for the teaching members: 4

8] Number of computer/ printer/ scanner available:

	computer	printer	scanner
In laboratory	301	0	0
In teachers' enclosure	30	11	0
For Research scholars	13	1	0
For Administrative purpose	3	4	2

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

10] Whether reprographic facility available? yes

11] Number of washroom facility (for male): 9

12] Number of washroom facility (for female):9

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? No

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?

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

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

6] Does the department have any Student Forum/ Club/ Chapter etc.? yes

7] Does the department have a students' feedback mechanism in place? yes

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

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) 01

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). 16

8/12/21

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