



Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY
Name of the head of the Institution	Prof. (Dr.) Saikat Maitra
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	03323341014
Mobile no.	9831130882
Registered Email	vc@makautwb.ac.in
Alternate Email	vc@wbut.ac.in
Address	Maulana Abul Kalam Azad University of Technology, West Bengal Main Campus: NH-12, Simhat, Haringhata, Nadia Pin: 741249 Kolkata Office: BF-142, Sector One, Salt Lake City Kolkata:700064
City/Town	Haringhata
State/UT	West Bengal
Pincode	741249
2. Institutional Status	
University	State
Type of Institution	Co-education

Location	Semi-urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Dr. Somdatta Chakravortty
Phone no/Alternate Phone no.	919433897685
Mobile no.	9051570158
Registered Email	iqac@makautwb.ac.in
Alternate Email	iqac.makautwb@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://makautwb.ac.in/iqac/AQAR_MAKAUTWB_2018-19.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website:
Weblink :

<https://makautwb.ac.in/page.php?id=229>

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.87	2017	27-Nov-2017	26-Nov-2022

6. Date of Establishment of IQAC

18-Mar-2014

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/beneficiaries
Training on handling Video Conferencing and Meeting platforms for Faculty Members of Affiliated Colleges	04-Feb-2020 1	150

54 Webinars organised by the University	18-Apr-2020 54	18785
Collaboration with Indian Institute of Remote Sensing, ISRO as Network Institute for offering courses and webinars	30-Jun-2020 324	233
Training on handling Video Conferencing and Meeting platforms for University Staff	09-Apr-2020 1	71
Collaboration with Coursera for launching Coursera for Campus Programme	01-Apr-2020 96	868
National Science Day	28-Feb-2020 1	402
STEM-2020: Inter-college poster competition	05-Feb-2020 1	300
West Bengal State Science Congress	23-Dec-2019 2	1000

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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
MAKAUT WB (University)	RUSA 2.0	MHRD	2018 1825	200000000
MAKAUT WB (University)	TEQIP-III	World Bank	2017 1095	70000000
Department of Biotechnology	DBT supported M.Tech in Biotechnology	DBT	2020 365	4713900

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9. Whether composition of IQAC as

Yes

per latest NAAC guidelines:	
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	7
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
An online Self Appraisal System has been designed for faculty members and staff for uploading their academic assignments, research work, daily tasks etc on the portal. There is a provision to assign tasks online with a due date and track their progress as and when required. The online system can be accessed through sas.makautwb.ac.in.	
Workshops, Faculty Development Programmes and more than 56 Webinars on different areas of technological significance were organized from March 2020 to June 2020	
The Coursera for Campus Programme was launched by the University in March 2020 and 850 learners of MAKAUT including students, faculty members and staff took these courses free of cost.	
Our University is now a Network Institute of Indian Institute of Remote Sensing (IIRS), ISRO Outreach Network. IIRS conducts various theme oriented online courses and monthly webinars on recent topics on Geospatial Technologies and their Applications. The University is now a nodal centre of their outreach network programmes.	
<ul style="list-style-type: none"> The University Departments of Computer Science and Engineering, Information Technology and Biotechnology have submitted SAR for NBA 	

accreditation for their B. Tech and M.Tech. programs.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Smart Classrooms	The University has 12 smart classrooms. The development of more classrooms is in progress.
Promoting MOOCs amongst Faculty Members and Students	University has collaborated with Coursera and IIRS, ISRO to provide free online courses from reputed organisations to the students and faculty for free. There is also a provision for reimbursement of course fees by the University for faculty and students who enrol on the courses
Interdisciplinary Research	Interdisciplinary Research is in practice in the Departments of the University. Joint research projects and publications are there in the Departments of Biotechnology, Computer Science & Engineering and Information Technology and Applied Sciences.
Digital Evaluation of Examination Answer scripts	This practice is already in place for the B.Tech students of the University.
Increase Outreach Activities of the University	University has conducted number of Outreach activities such as preparation of hand sanitisers and face masks, community kitchen, blood donation camps, etc..The details have been given in Criteria 7 of the AQAR.
Encouraging Entrepreneurship amongst students and filing patents amongst faculty members.	o Several webinars on Entrepreneurship and IPR have been organised. o Entrepreneurship has been kept as a subject in B.Tech. and M. Tech. Programs. o Students can also take up entrepreneurship in place of project work in the curriculum o Students have presented their proposals on entrepreneurship for incubation in the University Ekta Incubation Centre
Initiation of new programmes on emerging technologies and CBCS scheme	New Programs have been initiated from the 2019-20 academic session in various departments of the University and details are given in Criteria 1 of the AQAR. The newly introduced programmes

	have been designed following CBCS guidelines.
The practice of Digital Pedagogy by Members of faculty of the University	The teaching-learning practices on Digital Pedagogy have been demonstrated by respective Heads of Departments before the authorities of the University and the report is with IQAC. All members of faculty follow this practice.
To Organize Workshops and Training Programs for faculty and supporting staff for a better understanding of administrative skills. An awareness program on computer literacy for all the nonfaculty staff of the University was proposed.	Offline Workshops, Faculty Development Programmes and more than 56 Webinars on different areas of technological significance have been organized during the 201920 academic session. A 3week Computer Literacy Program for nonteaching staff of the University was organized from 06.07.2020 to 27.07.2020.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Executive Council</td> <td>29-May-2021</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Executive Council	29-May-2021
Name of Statutory Body	Meeting Date				
Executive Council	29-May-2021				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	20-May-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of	Modules presently operating: 1. Financial Management System 2. Examination Management				

modules currently operational (maximum 500 words)	System 3. Registration Management System 4. Library Management System 5. Admission Management System 6. Faculty Appraisal System
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Part B

CRITERION I - CURRICULAR ASPECTS**1.1 - Curriculum Design and Development**

1.1.1 - Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date
BE	Null	Null	

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1.1.2 - Programmes/ courses focused on employability/ entrepreneurship/ skill development during Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Int
No Data Entered/Not Applicable !!!				

[View File](#)**1.2 - Academic Flexibility**

1.2.1 - New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Intro
No Data Entered/Not Applicable !!!		

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1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CE Course System
Mtech	Artificial Intelligence	01/09/2019
Mtech	Data Science	01/09/2019
Mtech	Internet of Things	01/09/2019
Mtech	Geoinformatics	01/09/2019
BSc	IT (Artificial Intelligence)	01/07/2019
BSc	IT (Data Science)	01/07/2019
BSc	IT (Big Data Analytics)	01/07/2019
BSc	IT (Cyber Security)	01/07/2019
BCA	Null	01/07/2019

BTech	Computer Science & Engg.	01/07/2019
Mtech	Computer Science & Engg.	01/09/2019
Mtech	Software Engg.	01/09/2019
BSc	Robotics and 3D Printing	01/07/2019
BSc	Materials Science	20/11/2019

1.3 - Curriculum Enrichment

1.3.1 - Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
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No Data Entered/Not Applicable !!!

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1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field P Internships
No Data Entered/Not Applicable !!!		

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1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Ye
Teachers	Ye
Employers	Ye
Alumni	Ye
Parents	Ye

1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the (maximum 500 words)

Feedback Obtained

The university has a well-established feedback system that aims at improving the teaching-learning process and providing continuous support to students for their all-around development. They are a. Course Monitoring b. Student Opinion poll c. Course exit survey d. Information from mentors e. Input of the Head of the Department. f. Graduate Exit Survey g. Alumni opinion Parents meeting a. Course Monitoring: Course monitoring is an exercise check with students during the semester about any problems in instructional coverage of syllabus in each course, and also about any other problems facilities like canteen, library etc. The committee consisting of HOD and senior faculty member visit each class, once after 6 weeks after the start of the semester and in the 11th or 12th week to get feedback. Students are asked about the level of satisfaction in instructions by the course instructor in various subjects. In such subjects, they are asked to mention the specific problems and their opinion, in terms of percentage of students, is also collected.

General opinion on facilities like the library, canteen is also obtained each visit. Action: In the first visit, if most of the students opinion instruction is poor in one or more subjects, HOD issues a letter to concerned teacher about the feedback and the need to improve in specific areas. HOD again takes feedback from the class after 5 or 6 periods. If students are still not satisfied, the teacher is changed for that subject. After each visit, teachers with unsatisfactory feedback are counselled. If the complaint is of a minor nature, like low voice or solving few problems, the teacher is counselled. If the instruction is poor, a letter is issued mentioning the aspects to improve. For problems regarding facilities, a complaint brings to the notice of the in charge of the facility or Authorities. If necessary students. Course End Survey: After the end of every semester, feedback is taken for individual subjects in the form of Course End Survey with respect to their course. Graduate Exit Survey: In the final semester (8th semester), an exit survey is conducted and feedback is taken from passing out students. Achievement Alumni Survey: Alumni Survey is conducted and feedback is taken from students who have graduated the current academic year. Employer Survey: Students who have undergone vocational/summer internship and internship in the industries as well as who got the jobs in the Bio-Tech There is a regular practice of collecting feedbacks after completion of every semester course through a Feedback form provided to the students by the individual faculty. This practice helps the department and the institution to assess the learning and knowledge of the candidates. Also, student representatives have been appointed in each course for smooth running of teacher-student interaction including collecting feedbacks. Subsequently, the department arranges workshops, online courses offered by different platforms, and remedial classes (on request from the students).

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received
No Data Entered/Not Applicable !!!			

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2.2 - Catering to Student Diversity

2.2.1 - Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	to
2019	260	161	30	31	

2.3 - Teaching - Learning Process

2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management System, learning resources etc. (current year data)

Number of Teachers on	Number of teachers using ICT (LMS, e-	ICT Tools and resources	Number of ICT enabled	Number of smart	E-tec

Roll	Resources)	available	Classrooms	classrooms
62	62	12	15	15

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 - Students mentoring system available in the institution? Give details. (maximum 500 word

Department has introduced mentoring in its curriculum and assigned Mentors for mentorship in and its batches. • The Department has introduced Mentoring in the timetable with at least 1 cl
The assigned mentors are required to upload details of mentorship to the University as follow
Attendance • List of Students attached with Faculties. • Any Unusual Behavior • Participation
Programmes • Effort for Career Development Programmes • What are you currently doing well
you get there • What are you not doing well that's preventing you from getting there • What
differently to overcome those challenges • Where do you need the most help • Communication
department (Biotechnology), mentoring system had been introduced almost from inception, for
better and effective relationship between student (mentee) and teacher, and also continuou
council and guide students in educational and personal matters. As many students are hailing f
states it is very important that the teachers effectively work as a guardian and as a mentor
However, official mentoring through student allocation was introduced from 2017 onward. The
been continuing and students in groups are allocated with a teacher. The mentee students mus
discuss their problems and confide their issues to their mentors. It is a continuous process til
academic career of student. The student mentor-ship is focussed to enhance the teacher
relationship, and to enhance student's academic performance. It is also focussed to check on
attendance and discipline on a regular basis. Mentors are expected to offer guidance and co
individually or in groups, as and when they are required. Options are also open to meet the
counselling. For any weaknesses in a particular subject once identified by the mentor, the matt
to be taken up by the mentor for the best interest of the mentee. For such cases if Remedial c
be arranged, the process is expected to be initiated from the mentor's end. A diary by the me
maintained for the mentee. HoD also is assigned to meet the mentor and the mentee whenever
Even HoD has the responsibility to act as a mentor practiced for other faculty memb

Number of students enrolled in the institution	Number of fulltime teachers	Mentor :
783	55	1

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. o
48	36	12	3	

2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, recognition Government or recognized bo
2019	Prof. Dr. Debashish De	Professor	Shiksha Ratna Award
2020	Prof. Dr. Debashish De	Professor	Professor
2020	Kamalika Bhattacharjya	Lecturer	Outstanding Paper, West Bengal Council of Science and Tec

2019	Dr. Sonia Kundu	Lecturer	Outstanding paper award for presentation entitled "New green biopolymer film for decontamination of surface water" by DST,
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2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of semester-end/ year- end examination till the declaration during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of semester-end/ year- end
No Data Entered/Not Applicable !!!				

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2.5.2 - Average percentage of Student complaints/grievances about evaluation against total number in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination
1	681

2.6 - Student Performance and Learning Outcomes

2.6.1 - Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://makautwb.ac.in/page.php?id=314>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination
No Data Entered/Not Applicable !!!				

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2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design questionnaire) (results and details be provided as weblink)

<https://www.makautwb.ac.in/page.php?id=402>

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding Institution
National	Prof. Dr. Debashish De	Shiksha Ratna Award	05/09/2019	Govt. of West Bengal
International	Prof. Dr. Debashish De	Excellence in Research Award	20/01/2020	BSAC and ICMR

	De	Academics		Rese Bangl
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3.1.2 - Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the year enrolled during the year

Name of Research fellowship	Duration of the fellowship	Fundi
No Data Entered/Not Applicable !!!		

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3.2 - Resource Mobilization for Research

3.2.1 - Research funds sanctioned and received from various agencies, industry and other organizations during the year

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				

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3.3 - Innovation Ecosystem

3.3.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia practices during the year

Title of workshop/seminar	Name of the Dept.
No Data Entered/Not Applicable !!!	

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3.3.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award
1st prize in innovative idea competition for poster presentation entitled "Development of carboxymethyl guar gum-gelatin smart hydrogels for controlled release of antibiotics"	Dr. Sonia Kundu	DSIR-TOCIC-IIT-Kharagpur, CSIR-CGCRI, CSIR-CMERI, Department of Scientific Industrial Research (DSIR) Technology Bhawan, New Mehrauli Road New Delhi-110016. INDIA	14/08/20
Outstanding paper award for oral presentation entitled "New generation biopolymer film for decontamination of surface water"	Dr. Sonia Kundu	WB-DST, 4th Floor, East Block, BikashBhavan, Salt Lake, Kolkata, West Bengal-700064 MAKAUT, WB	24/12/20

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3.3.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Co
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No Data Entered/Not Applicable !!!

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3.4 - Research Publications and Awards

3.4.1 - Ph. Ds awarded during the year

Name of the Department	Number of PhD's Aw
Biotechnology	1
Computer Science Engineering	3
Management	1

3.4.2 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Aver Fact
International	Computer Science and Engineering	92	
International	Biotechnology	15	
International	Information Technology	12	
National	Department of Pharmaceutical science and technology	15	
International	Department of Pharmaceutical science and technology	3	
International	Applied Science	15	
International	Materials Science and Technology	3	
International	Food Science and Technology	10	

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3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/Internal Conference Proceedings per Teacher during the year

Department	Number of
Biotechnology	
Food Science Technology	
School of Management Sciences	
Department of IT	
Department of Pharmaceutical science and technology	
Applied Science	
Materials Science and Technology	
COMPUTER SCIENCE AND ENGINEERING	4

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3.4.4 - Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number
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Microbial consortium for nitrate and phosphate sequestration for environmental sustenance.	Published	1005753
A system and method for detecting platelet function using UV light and deep learning analysis of microscopic images.	Published	201931048635
Methods and Apparatus for Microcontroller based Automated Shadow Lighting System	Published	201931044529
Method and Apparatus for Dynamic Lighting System	Published	201931054688

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3.4.5 - Bibliometrics of the publications during the last academic year based on average citation Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number excluding
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No Data Entered/Not Applicable !!!

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3.4.6 - h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation mentioned in the
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No Data Entered/Not Applicable !!!

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3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	St
Attended/Seminars/Workshops	100	92	1
Presented papers	25	14	1
Resource persons	12	19	

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3.5 - Consultancy

3.5.1 - Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsorir Agency
Management	Consultancy - CSR Impact Analysis Project - funded by GRSE January - March 2020	GRSE
Department of Forensic	Questioned Documents - Signature Verification	Shree Enterpris

Science		
Department of Forensic Science	Questioned Documents - Signature Verification	Bengal Chess Association

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3.5.2 - Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)
Dept of Biotechnology, MAKAUT, WB.	Internship Programme	University of Engineering and Management	3000
Management	MDP on Talent Management and Career Progression	Braithwaite and Company Limited	500000

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3.6 - Extension Activities

3.6.1 - Number of extension and outreach programmes conducted in collaboration with industry, and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
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No Data Entered/Not Applicable !!!

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3.6.2 - Awards and recognition received for extension activities from Government and other recognised organisations during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students
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No Data Entered/Not Applicable !!!

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3.6.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
National Service Scheme	NSS Unit of the University	Beti Bachao Beti Padhao	5	

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3.7 - Collaborations

3.7.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support
No Data Entered/Not Applicable !!!		

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3.7.2 - Linkages with institutions/industries for internship, on-the-job training, project work, student research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	
Project work with Institutions/ University	Project work with Institutions/ University	ISI ISI IISER(KOL) Tata Medical Center JU JU JU Bose Institute BCKV Bose Institute WBUAFS WBUAFS IISER (KOL)	01/02/2020	31/08/2020	E Ch R Mo I S C T Be M C Su

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3.7.3 - MoUs signed with institutions of national, international importance, other universities, in corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participating MoUs
No Data Entered/Not Applicable !!!			

[View File](#)**CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES**

4.1 - Physical Facilities

4.1.1 - Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure during the year
40200000	200511245

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Exis
Others	Ne
Value of the equipment purchased during the year (rs. in lakhs)	Ne
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Ne
Video Centre	1
Seminar halls with ICT facilities	Ne
Classrooms with Wi-Fi OR LAN	Ne
Classrooms with LCD facilities	Ne
Seminar Halls	Ne
Laboratories	Ne
Class rooms	Ne
Campus Area	1

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4.2 - Library as a Learning Resource

4.2.1 - Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	a
KOHA	Fully	20.11 stable (2020)	

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		
Text Books	16885	954699	95	205644	16980
Reference Books	3520	4109000	Nil	Nil	3520
e-Books	10307	9288370	Nil	Nil	10307
Journals	Nil	Nil	Nil	Nil	Nil
e-Journals	32346	3855177	Nil	Nil	32346
Digital Database	1	Nil	Nil	Nil	1
CD & Video	1150	Nil	Nil	Nil	1150
Library Automation	2	Nil	Nil	Nil	2
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil
Others (specify)	1	1383668	Nil	Nil	1

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4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala C Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & ins (Learning Management System (LMS) etc

Name of the	Name of the	Platform on which module is	Date of launc
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Teacher	Module	developed	content
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No Data Entered/Not Applicable !!!

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4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Avail Bandw (MBPS)
Existing	949	17	949	18	17	153	65	1
Added	150	4	100	1	4	15	17	0
Total	1099	21	1049	19	21	168	82	1

4.3.2 - Bandwidth available of internet connection in the Institution (Leased line)

1 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre a facility
MAKAUT Digital Studio	https://www.youtube.com/watch?v=m8b

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure i maintenance facilit
565080000	326329352	522520000	202845

4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information available in institutional Website, provide link)

There are various facilities available on the University campus. The building in the new campus is also complete and functional. The university has an excellent Library that boasts more than 34000 books, including print and E-books. There are more than 2000 e-journals and more than 10000 e-journals available from consortia (e-Shodha-Sindhu). Besides, the University has an adequate number of laboratories, workshops, and classrooms, including smart classrooms and an ICT-enabled teaching-learning environment developed in the campus for state of the art teaching-practice. The Haringhata campus of the University has developed an infrastructure with more than 400 high-end PCs installed in different laboratories with a few numbers of dedicated computing facilities. Individual PCs and laptops for all faculty members and officers as well as for all the staff of the University. The University has a commendable student to staff ratio as per AICTE norms with excellent 1 GBPS network connectivity. The Biotech building and girls hostel are equipped with power backup systems. The campus is having several facilities like Staff Quarters, Gymnasium, hostels, Medical Centre, Sick Room, Playground, a Guest House etc.

house having ample accommodation that includes 37 furnished room internet and other amenities of international standards. The cam equipped with its own electrical substation and power backup. The c connected with a Wi-Fi facility. There are elevators, ramps and whe provided for differently-abled persons. The University is well plann developed a rainwater harvesting and sewerage treatment plant ar beautiful well-maintained gardens. The University is also planning t auditorium and Bank in its new campus at Haringhata and make it a Gr in near future.

<https://makautwb.ac.in/page.php?id=351>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	
Financial Support from institution	Nil	Nil	
Financial Support from Other Sources			
a) National	Nil	Nil	
b) International	Nil	Nil	

[View File](#)

5.1.2 - Number of capability enhancement and development schemes such as Soft skill development coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring e

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	
No Data Entered/Not Applicable !!!			

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5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam
2019	Support in TEQIP III	46	46	10

No file uploaded.

5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Prevention of harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

5.2 - Student Progression**5.2.1 - Details of campus placement during the year**

On campus			Off campus	
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated

No Data Entered/Not Applicable !!!

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5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined
2020	1	MAKAUT	IEM	Department Of Management Studies IIT Delhi
2020	2	MAKAUT	IEM	Vinod Gupta School of Management - IIT Kharagpur
2020	1	MAKAUT	Bio Tech	IIT Guwahati
2020	1	MAKAUT	Bio Tech	MAKAUT

No file uploaded.

5.2.3 - Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	1
GATE	6

No file uploaded.

5.2.4 - Sports and cultural activities / competitions organised at the institution level during the

Activity	Level	Number of Participants
Relay Race	National	31
Long Jump	National	34
Discuss Throw	National	32
Shot Put	National	45
200 Mts. Run	National	36
100 Mts. Run	National	42
Cricket	National	84

No file uploaded.

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	
2019	Award	National	2	Nil	1	Ac

No file uploaded.

5.3.2 - Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Being a State Aided University, it functions as per the guidelines the State Government from time to time. Accordingly in every progr the university there is a student representative who coordinate activities pertaining to student's participation. In Anti-ragging (and Student Grievance Cell we have student representatives as per s norms. There is always nominated student representation in the Comm and when required. The participation of students in different acad cultural programmes arranged by the university is coordinated by th representative.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

Maulana Abul Kalam Azad University of Technology Alumni association, Bengal is registered association. It has own very good website. It i to have as its alumni a group of engineers, technologists, scientist this association provides a platform to all to share their experienc each other. The students along with the help of the university, in i endeavour to strengthen the link with the alumni, have set an Alumni Association consisting of a dedicated team of members. Several Alumr were assisted by the TEQIP and university grant. The Alumni Associat been created at the University which extends several facilities and to the Alumni to continue and enhance their pleasant association wit university which will be shared ahead. Mission of this alumni associ to initiate, nurture and sustain engagement with alumni and Corporat active partners in the Institutes pursuit of excellence. Visions of association are i) To create programs and opportunities for alumni a Corporations to contribute to the development of MAKAUT, WB, ii) To initiatives and provide support to alumni and Companies to strengthe engagement with the Institute, iii) To provide support within the Ir to promote and Corporations Our Plan i) Attracting and nurturing dona Managing donor-funded programs. ii) Managing alumni relationships Ir and managing student-oriented programs. iii) Initiating and managing corporate engagement. Managing some Institute events and visitors fr different areas of the technical field. iv) Initiating and coordinat faculty engagement with well-wishers (among alumni corporation)

5.4.2 - No. of registered Alumni:

630

5.4.3 - Alumni contribution during the year (in Rupees) :

0

5.4.4 - Meetings/activities organized by Alumni Association :

The University organises interactive sessions, Seminars, Webinars, Workshops every year in which Alumni of various departments are invited to participate as resource persons and interact with our student community.

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 - Institutional Vision and Leadership****6.1.1 - Mention two practices of decentralization and participative management during the last year (maximum 500 words)**

The entire academic and administrative structure of the University is based on a "bottom-up" approach. This ensures adequate participative management and devolution of powers. To corroborate this statement, it may be permitted to examine the following practices undertaken during the 2019-20 academic session: 1. A number of new courses were introduced in the different Schools/Departments of the University during the 2019-20 academic session. Prior to introduction of these courses, the Departmental Committee conducted detailed deliberations on the requirements, eligibility criteria, prospects, target groups, promotional strategies, fee structure and other issues pertaining to these courses. Upon approval of the Departmental Committee, the proposals were placed before the Departmental Head/School Head before the Competent Authority for provisional approval. In parallel to this, a Curriculum Committee of Studies was constituted comprising Departmental teachers and external experts, as mandated by UGC, to finalize the curriculum structure and detailed syllabus of the respective courses. Finally, all such courses were placed before the Academic Council for vetting and formal approval. In the Academic Council, all Directors of Schools and Heads of Department, officio members and there are eminent academicians as well as representatives from affiliated Colleges. The introduction of these new courses were reported and noted in the Executive Council meeting of the University. The exercise of introduction of new courses clearly revealed that the academic stakeholders of the University were kept on board during the implementation of the process. 2. With the onset of the COVID 19 pandemic when lockdown was imposed in the entire country in March 2020, the University was constrained to start operating in an online mode which continued for several months. Prior to migrating to the online mode the University authorities organized several meetings with the different stakeholders including in-house teachers and staff members, as well as teachers and representatives from the affiliated Colleges to apprise them of the situation, receive feedback from them and together formulate a roadmap for the future. In view of such feedback, a number of training sessions were conducted, both for teaching and non-teaching staff, so that they could feel comfortable in the online setting. Whenever any policy decision had to be taken, the authorities convened a meeting of Officers, Directors, Heads, Senior Faculty Members and representative staff members, exchanged view points, and acted on the basis of the consensus emerging out of such meetings. All such decisions were presented and duly ratified in the statutory bodies of the University. Thus, a process of highly participatory management was followed which ensured adequate ownership of all such decisions and ensured their smooth implementation.

6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

6.2 - Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with each):

Strategy Type	Details
Human Resource Management	<p>1. The University recruits teaching and non-teaching (regular or contractual) through formal Employment Notification published in University website/leading newspapers and subsequent conduction of interviews. All recruitment conducted based on the guidelines provided by UGC regulations and the State Government norms. 2. Recruited faculty deputed to undergo faculty development programs for upgradation in their Teaching-Learning quality. Non-teaching staff members are encouraged to enroll in skill development workshops to upgrade their professional skills in their workplace and further improve their management skills. Value added courses, delivered through seminars, workshops, colloquium and symposia of national and international level leave a great impact in the overall advancement of the institution. participating stake holders. TEQIP III funds have been significantly utilized to support faculty, staff and students, for promotion of technology-based skill development knowledge.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>1. All academic Departments of the University have a well-equipped laboratory infrastructure, a well-established central library and other facilities exclusively available to support existing teaching-learning activities. 2. The Library is well equipped with digital resources along with a substantial number of titles (physical books), e-journals, and a well-organised library management system, a stable Wi-Fi connectivity for all members within the campus in which students who have full access to on-campus internet for 24 hrs. 3. The University has well-furnished seminar rooms with modern presentation facilities, gymnasium, indoor sports facilities and a large playground. Facilities for disabled students also exist in the campus. 4. The University has both girls and boys hostels to provide accommodation for a large number of students under UG, PG and also Ph.D. The hostels have adequate and good quality canteen facilities. 5. Apart from hostels the campus has staff quarters, a guesthouse to accommodate teaching and non-teaching staff (upon request) as well as guests who are invited for seminars, lectures, and meetings.</p>
Research and Development	<p>The University has developed an active research environment promoting research across various disciplines. 1. A research cell comprising one Coordinator and office staff, are entrusted to carry out all official work, conduct meetings, etc. as necessary under the overall supervision of the Registrar of the University. 2. A separate division within the Registrar's office checks the plagiarism in the submitted Thesis and</p>

	<p>corrective measures if required. 3. Every candidate for PhD is assigned under a Research Advisory Committee which monitors the progress of the research work carried out individually. 4. Every Ph.D discipline has a dedicated committee which is entrusted with the responsibility of monitoring the Ph.D process in that particular discipline. The research infrastructure has been developed keeping in mind the requirements of the faculty members, while placing emphasis on research which caters to industrial and societal needs. 6. The University promotes interdisciplinary research. Teachers are encouraged to undertake research projects funded by external agencies. University provides seed money for research to new faculty members and bears the cost of patent applications.</p>
<p>Examination and Evaluation</p>	<p>1. For theory courses, a process of continuous evaluation comprising four internal tests, is followed along with semester examinations as per the Academic Calendar. For laboratory courses, internal evaluation is done immediately after completion of each lab experiment and the final exams are conducted at the end of the teaching session. 2. Answer scripts of the end semester examinations are checked to ensure a completely unbiased evaluation process. 3. Evaluation is done under centralised control. The results are initially published online in the website. 4. The students have to complete certain Mandatory Additional Requirements (MAR) to earn their degrees. This is to ensure that they grow up as well rounded individuals, sensitive to the needs of their fellow citizens and society at large. 5. All examination records have been digitized. 6. The students are allowed to apply for Review if they are not satisfied with their semester results.</p>
<p>Teaching and Learning</p>	<p>1. Physical infrastructure have been significantly improved through the construction of smart classrooms, installing ICT enabled devices, and providing laptops/tabs to the faculty members. 2. Huge emphasis on Massive Open Online Courses (MOOCs), using resources provided by the leading Universities / Institutes from the web, using e-books, developing digital content and e-resources and continuous self-development of teachers and students. 3. Stress on project-based experiential learning as opposed to commonly practiced rote teaching and learning by rote. 4. Encourage flipped classroom, blended learning and promote co-learning so that the students and the taught can collaborate and add value to each other. A strict mentoring system is followed to ensure physical, mental and intellectual well-being of the students.</p>
<p>Curriculum Development</p>	<p>The following steps are followed during introduction of new courses/revision of old courses offered in-house or by affiliated Colleges: 1. For each such course, the University issues a separate Board of Studies (BOS), duly constituted with a mandate, comprising of teachers, external experts and representatives which finalized the course structure and detailed syllabus after thorough discussion. The course is mostly as per the Choice Based Credit System (CBCS)</p>

with adequate emphasis on the Learning Outcome Framework (LOCF), as delineated by UGC. The respective BOS, preparing the syllabus, ensure that these contain Outcome (PO), Course Outcome (CO), CO-PO mapping and mapping. 2. Upon approval by the BOS, the revised syllabus are placed in the meeting of the Academic Council (AC) of the University for being duly vetted and ratified by the Academic Council.

6.2.2 - Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	ERP (Enterprise Resource Planning)
Administration	ERP (Enterprise Resource Planning) and Bio Attendance
Finance and Accounts	ERP (Enterprise Resource Planning)
Student Admission and Support	ERP (Enterprise Resource Planning), Registrar Enrolment System
Examination	ERP (Enterprise Resource Planning) and University developed software

6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided
No Data Entered/Not Applicable !!!			

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6.3.2 - Number of professional development / administrative training programmes organized by for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participant (Teaching staff)
2020	Faculty Development Program with Department of Applied Science "Computational techniques in Chemistry and Materials Science: How to use contemporary software tools"	NA	14/09/2020	19/09/2020	120

2020	FDP with Centre of Linguistics MAKAUT WB- Scientific Technical Writing titled The Art Craft of Scientific Technical Writing: from A to (almost) Z	NA	02/11/2020	06/11/2020	200
2020	Webinar on: What imparts the ultra-high strength in the structural materials-A concept to reality. Speaker from IIT Roorkee	NA	04/06/2020	04/06/2020	141
2020	Webinar on: Engineering Skills for the Year 2020 and Beyond. Speaker from NIFFT, Ranchi, GOI	NA	25/06/2020	25/06/2020	150
2020	Webinar on Detect, Isolate and Treat: The 3 Aspects of COVID Management	NA	28/06/2020	28/06/2020	753

[View File](#)

6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Progr. Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To Date
No Data Entered/Not Applicable !!!			

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6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
35	65	36	

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
Subsidised Medical, those who are not covered under West Bengal Health Scheme, Accident Insurance Policy @ Rs 5, 00,000.00,	Subsidised Medical, those who are not covered under West Bengal Health Scheme, Accident Insurance Policy @ Rs 5, 00,000.00,	Accident insurance pol: inhouse students, In-c accidental death of worki the tuition fees are wa Annual Prize Distribution /Sports), Anti-ragging Student-related

COVID Safe Home for patients, hand sanitizers in house manufacturing and distribution to staff, COVID Relief Fund for Rs 10 Lakhs for which contribution will be made on the basis financial criteria, Free Transportation from designated place, Insurance, Housing, DCRB Cell (Death Cum Retirement Benefits) of the State Government for permanent employees against sustained post of the State Govt. University Sport Board regularly organizes sports activities for employees for their all-round development. Regular online counselling to boost the motivation and mental strength of the employees. University encourages FDP and MDP and other programmes for the employees on regular interval.

COVID Safe Home for patients, hand sanitizers in house manufacturing and distribution to staff, COVID Relief Fund for Rs 10 Lakhs for which contribution will be made on the basis financial criteria, Free Transportation from designated place, Insurance, Housing, DCRB cell Death Cum Retirement Benefits of the State Government for permanent employees against sustained post of the State govt. University Sport Board regularly organizes sports activities for employees for their all-round development. Regular online counselling to boost the motivation and mental strength of the employees. University encourages FDP and MDP and other programmes for the employees on regular interval.

Seminar/Conferences/Worksh Youth Festivals, Transport Hostel facility for boys ; multi gyms, 24x7 medical and ambulance for any ca University Sport Board r organizes sports activi students for their all development. Regular c counselling to boost the ; and mental strength of the

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words ea

External Financial Audit: The Accounts of the University is subject by the Local Audit Department of the CAG. Apart from that, the Un gets its Final Accounts Audited by a Chartered Accountants Firm w selected by inviting open EOI from time to time. The University acc been prepared up to the Financial Year 2019-20 and the finalisat Accounts for the financial year 2020-21 is in progress. **Internal F Audit:** 1) The Finance Department works under the supervision of th Committee, Executive Council and under the overall control of th Chancellor. The Finance Officer is the Head of the Department and and Accounts Officer is there to look after the Internal Audit Fun The University strictly follows a Cash-less Policy and the Finance :

is ERP Driven almost since its inception. There is an in-built internal control mechanism in the software and payments are being made through internal check mechanism. No payments are made without proper certificate of the HOD and Goods Receipt No. (GRN) of the Stock Book maintained in the Finance Dept. 3) The Finance Officer approves the bills after getting clearance from the Audit and Accounts Officer. 4) The University receives research grant from various funding agencies where submission of a Utilization Certificate from the Financial Authority/ Chartered Accountant is a mandatory requirement.

6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropists during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	786344000	Salary and Non-Salary Management Grant by University

No file uploaded.

6.4.3 - Total corpus fund generated

1185903000

6.5 - Internal Quality Assurance System

6.5.1 - Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Author
Academic	Yes	Academic Head and Authorities of University	Yes	Director of Studies and Head of Department
Administrative	Yes	Administrative Head and Authorities of University	Yes	Officers of University

6.5.2 - What efforts are made by the University to promote autonomy in the affiliated/constituent colleges (if applicable)

The University monitors the academic activities of every constituent college throughout the formative stage, admission, academic and placement of students from the inception and in every subsequent year, the University promotes the affiliation to a college only after rigorously evaluating the infrastructure and human resources of the college and finding them satisfactory. The University has in place a structured syllabus duly approved by the Board of Studies, which is to be followed by every college. The evaluation is done on a centrally supervised continuous basis as well as through semester examination. There is a strict Mentoring system in place where a particular teacher is engaged as a mentor of a group of students in every college. Stress is laid on the adoption of Massive Open Online Courses (MOOCs). There is also a system of Mandatory Additional Requirements which is again monitored by the University, which every student has to fulfil to earn the University degree. Thus the University continuously supports the academic up-gradation in the affiliated colleges, in consultation with the stakeholders of that college. When all stakeholders and the University feel that the college is mature enough to be granted autonomy, the

granting autonomy is initiated under the aegis of the University Commission.

6.5.3 - Activities and support from the Parent - Teacher Association (at least three)

The University strongly believes in cultivating and sustaining a Parent-Teacher relationship based on mutual respect and trust. To this, the following steps are routinely followed by the University Teachers interact extensively with the parents of prospective students to and during the admission process. Efforts are made by the teachers to address different issues concerning admission, sometimes in consultation with higher administrative authorities. 2. Teachers remain in contact with parents during the academic cycle also, guiding them in different situations and receiving feedback from the parents about the progress of their wards and general academic ambience in the University. 3. Teachers frequently touch base with the students and their guardians even after they graduate providing them with valuable inputs. 4. There is a process of receiving and structured feedback from the parents in order to help improve the teaching-learning process.

6.5.4 - Development programmes for support staff (at least three)

The following activities were undertaken during the 2019-20 academic year for progress of the supporting staff members of the University: 1. Support staff members were offered training programs on different applications software such as MS Word, Excel, Powerpoint etc which would be useful for discharging their official work. 2. The authorities of the University including the Hon'ble Vice-Chancellor interacted with the support staff members in the presence of the respective functional heads to check their work status, the progress made, the difficulties faced and to advise them how to make improvements, both on personal and organizational level. Programs were organized for support staff on the issue of mental well-being in order to boost their morale during the pandemic induced lockdown.

6.5.5 - Post Accreditation initiative(s) (mention at least three)

Following the first cycle of NAAC accreditation in 2017, several initiatives were taken to improve the overall functioning of the University. These are listed below: 1. The 40 acre main campus of the University at Haringhata, Nadia was made functional and nearly all academic and administrative activities were migrated to the Haringhata campus during the 2018-19 academic session. 2. Several vacant substantive faculty positions were filled up starting from 2018. All regular officer positions were filled up in 2019. 3. A large number of new Schools, Departments and laboratories, workshops and similar such structures were set up to support these initiatives. A number of professional courses based on cutting-edge tools in technology and management were introduced to boost employability. As a result of these initiatives, the number of in-house students increased substantially. 5. Emphasis was put on project-based and experiential learning as well as on collaborative and flipped learning models. The assessment process was strengthened through continuous evaluation. The huge learning resources were leveraged to the maximum possible extent through different MOOCs platforms. 6. The University made sustained efforts to create awareness about entrepreneurship, innovation and start-up through its technology business incubator. 7. The University created a strong digital footprint for itself by effectively using its social media handles.

University excelled in its social responsibilities by manufacturing and distributing masks and sanitisers during the early days of COVID-19, starting a community kitchen and similar social work following the lockdown caused by Amphan in May 2020.

6.5.6 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal
b) Participation in NIRF
c) ISO certification
d) NBA or any other quality audit

6.5.7 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To
2019	West Bengal State Science Congress	23/12/2019	23/12/2019	24/12/2019
2020	STEM-2020: Inter-college poster competition	05/02/2020	05/02/2020	05/02/2020
2020	Collaboration with Coursera for launching Coursera for Campus Programme	01/04/2020	01/04/2020	30/09/2020
2020	Training on handling Video Conferencing and Meeting platforms for University Staff	09/04/2020	09/04/2020	09/04/2020
2020	Collaboration with Indian Institute of Remote Sensing, ISRO as Network Institute for offering courses and webinars	30/06/2020	30/06/2020	Nil
2020	54 Webinars organized by the University	18/04/2020	18/04/2020	30/06/2020

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CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution in the year)

Title of the programme	Period from	Period To
Maulana Abul Kalam Azad University of Technology organized BETI BACHAO BETI PADHAO programme in the MAKAUT campus, Nadia.	22/01/2020	24/01/2020

7.1.2 - Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
1. Installation of a solar power plant on the rooftop of main building

campus for solar energy as alternative and renewable energy is complete and ready for operation. 2. Rainwater harvesting implemented in 2019 costing Rs. 1036965.00 3. Sewage treatment plant of capacity 166 KLD is implemented at the campus costing Rs. 16033387.00 and is presently functional. 4. Installation of kitchen waste is under construction. 5. Plantation of trees with quantities costing Rs 11,000,00 (Maulana Abul Kalam Azad University, West Bengal organized a Tree Plantation Programme on 29/05/2019 in the University campus.) 6. Plastic free campus: various measures under process including installation of plastic waste. Waste compressor machine installed. 7. Solar Power Plant installed with capacity 135 Kwp is under process costing Rs 60 to 70 lakhs and will be commissioned 20-25 energy will be saved from present consumption. Student Symposium on "Renewable Energy Colloquium - I" on June 05, 2020, 04:00 PM India. 9. "Advances in Renewable Energy Generation in the Indian context: a vis India's Perspective" on July 05, 2020, Time 10 AM, India. 10. Rainwater treated water for gardening, washings and in the toilet to save underground water. 11. Observing Environment Day every year by planting trees on the campus and bringing awareness through a webinar.

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	
Provision for lift	Yes	
Ramp/Rails	Yes	
Braille Software/facilities	Yes	1
Rest Rooms	Yes	
Scribes for examination	Yes	
Special skill development for differently abled students	Yes	
Any other similar facility	Yes	

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed
No Data Entered/Not Applicable !!!						

[View File](#)

7.1.5 - Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Examination Code of Conduct	01/07/2019	The University publishes guidelines of examination from time to time which is available in its website http://makautexam.net/announcement.htm
Research Code of Conduct	01/07/2019	The University publishes guidelines of Research from time to time which is available in its PhD website https://phd.makautwb.ac.in

Service Rules	01/07/2019	The employees of the University follow Service Rules laid down by the Govt. of West Bengal which are meticulously followed by the University.
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7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			

[View File](#)

7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Installation of the solar power plant on the rooftop of the main building in the campus for solar energy as alternative and renewable energy source. 2. Rainwater harvesting implemented in the campus costing Rs. 1036965.00 3. Sewage treatment plant of capacity 166 m³ implemented in the campus costing Rs. 16033387.00 and is presently functional. 4. Composting of kitchen waste is under construction. 5. Plantation of trees with names and quantities costing Rs 11,000,00. 6. Abul Kalam Azad University of Technology, West Bengal organized a Green Environment Plantation Programme on 29th August 2019 in the University campus. 7. Plastic free campus: various awareness measures under process in the campus. 8. Installation of plastic waste separator in the canteen. 9. Solar Power Plant installation of capacity 135 Kwp in the process costing Rs 60 to 70 lakhs and once commissioned 20-25% energy will be saved from present consumption. 10. Online Student Symposium on "Renewable Energy Colloquium - I" on June 05, 2020, Time 04:00 PM India. 11. "A Day for Renewable Energy Generation in the World vis a vis India's Perspective" on July 05, 2020, Time 10 AM, India. 12. Use STP, treated water for garden washings and in the toilet to save underground water. 13. Observe Environment Day every year by planting trees on the campus and building awareness through a webinar.

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

1. Industry-Academia Collaborations: MAKAUT, WB has introduced its courses in collaboration with renowned industry partners to increase the skills and employability of the young generation. Side by side with traditional courses and with a view to increase and widen the professional skills of youths, the University has signed MoU and is carrying out courses of Certification and Diploma courses in collaboration with different industry partners and institutions. 2. Digital Inspection: MAKAUT, WB has entered a new age of Digital Inspection of its affiliating colleges, which is the first of its kind in the country. The digital studio of the University is used to monitor and authenticate digital inspections of affiliating colleges. The expert members of the Inspection teams are able to interact with the members, students and authorities of the colleges from the studio and obtain a real-time assessment of the resources at the disposal of the colleges seeking affiliation from the University. About 200 colleges have been inspected digitally through Video Conferencing from the Digital Studio. It has been felt that the colleges can be more effectively monitored through this mechanism enabling inspection of colleges easier and faster. The Council for Technical Education (AICTE) has also appreciated this initiative of the University. The University has developed a Cloud-based Self

Report (SAR) system for digital inspection of its affiliated colleges. The evaluation criteria include parameters from NAAC and NBA accreditation. All affiliated colleges are required to fill in and upload the SAR to the University's website with relevant documents for evaluation. The digital SAR system initiated by the University for its Affiliated Colleges is introduced with the aim to make the departments and colleges ready for NBA accreditation and research. Introduction of Research and formation of PhD Committees in New Thrust Areas: The University has initiated PhD Committees in new areas that are aligned with the latest technologies. The following areas are the new areas added from the traditional disciplines that were already in existence. A list of new areas includes: Artificial Intelligence, Cyber Security, Data Science, Geoinformatics, Business Analytics, Hotel and Hospitality Management, Biomedical Engineering, Nanotechnology, Nano Science and Technology, Robotics and Automation, Applied Chemistry, Applied Mathematics, Applied Physics, Applied Psychology, Environmental Science, Material Science and Engineering, Statistics, Earth Science, Environmental Management, Environmental Science, Food Technology, Healthcare Technology and Management, Pharmaceutical Technology. The University has also mandated all PhD research scholars to take up courses online for their PhD from online platforms and select courses of their choice as recommended by their Supervisors. The credit transfer of courses is similar to Undergraduate and Post Graduate online courses. 4. Conducted more than 300 webinars till date which is a Record number of Webinars in the Country by any University since the pandemic situation in March 2020. 5. Outreach Activities: i) Distribution of handmade masks: The University started preparing masks in its workshop in Haringhata Campus as part of its effort towards fighting the Corona Virus. ii) Community Kitchen: The University started a Community Kitchen at its Haringhata campus in the Haringhata district, for providing cooked food to the poor and needy people around the area who could not procure food due to lockdown in the wake of COVID-19. The Community Kitchen also catered to the Amphan affected people in schools and locality. iii) Hand Sanitizers: The University took an initiative of producing hand sanitisers in its laboratory for distribution in the wake of the COVID 19 threat. iv) Rain Water Harvesting Project and Ground-Water Recharge Projects have been implemented at the University Campus at Haringhata with the objective of water conservation. v) De-fluoridation of Drinking Water by using Nano-Aggregates: The University has prepared nano-aggregates for environmental remediation of fluoride present in drinking water. The project directly aims to ease the condition of the poor rural people of India by improvising effective water treatment option for fluoride contaminated drinking water resources. vi) Rain Water Harvesting Project: The Campus has installed a solar plant, practices rain water harvesting, solid waste management, E-waste management, and has biogas plant (TOTO) running inside its campus. 7. A street library with about 2000 books on various topics is constructed inside the campus to encourage reading through the day in the natural environment.

Upload details of two best practices successfully implemented by the institution as per NAAC criteria. If you have a link on your institution website, provide the link

https://www.makautwb.ac.in/igac/Best_Practices-2019-20.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision and thrust in not more than 500 words

The University is steadfast in its twin objectives • To serve as a

Excellence in teaching and research in the technology and management. To provide a framework of industrialization based on the knowledge. For emerging as a Centre of Excellence, the University has created Schools of Studies viz. School of Computational Sciences, School of Engineering Sciences, School of Biotechnology Biological Sciences, School of Management and Sciences, School of Natural and Applied Sciences, School of Energy Environmental Sciences and School of Food, Pharmaceutical and Science Technology comprising many departments. viz. Department of Science Engineering, Information Technology, Biotechnology, Bioinformatics, Material Science Technology, Applied Science, Forensic Science, Pharmaceutical Science Technology, Food Science Technology, Renewable Environmental Science, Microelectronics VLSI, Industrial Engineering Management, Media Science, Management, Travel and Tourism Management. Apart from that University is equipped with some significant Centres viz. Geoinformatics and Spatial Sciences, Agro Biotechnology, BioResource Management Bio-Economy, Waste Utilization, Robotics 3D Biomedical Engineering and Linguistics. The M.Tech course in Biotechnology supported financially by the Department of Biotechnology, Government of India. In addition to the UG/PG/certificate PhD programs in emerging areas are also done by the various Schools of MAKAUT. To achieve the status of a globally ranked premier University in the field of Science, Technology, Pharmacy, Architecture, Management and interdisciplinary areas for the creation of high-calibre professionals with environmental consciousness and social, moral and ethical values along with the competency to face the challenges of rapid technological advancements. Besides being supported by the State Government and central grants giving agencies, the University organizes programs to generate as much as 90% of its own resources. Courses offered at the UG level are now accredited by NBA. Online activities of the colleges during lockdown period: In order to encourage colleges and explain the possibilities, the University had conducted meetings with all the affiliated colleges taking about 10-12 colleges at a Zoom cloud meeting platform and guided them regarding the different activities. We advised them to keep a record of the online activities of the students in the prescribed format and subsequently developed online reporting provision on the examinations portal (www.makautexam.net) of the university and accessed by the college admin, individual faculties and students through their login. Both faculties and students are advised to upload the records of activities (formats are enclosed in annexure) in the university portal (http://makautexam.net/pdf18/2020/online_activity.pdf). Periodical reports were done. Until May 2020, almost 1.75 lakhs record of classes were generated by the faculties where about 60 lakhs students attended the class. Records submitted by the students also reported about 20 lakhs records during the lockdown period. All records are made available with the college administration. Reviews on the uploaded activities were also made through the college website.

Provide the weblink of the institution

<https://makautwb.ac.in>

8.Future Plans of Actions for Next Academic Year

1. NIRF Ranking: The University was ranked 157th as per NIRF Ranking Engineering Disciplines in 2020. The Objective is to bring up the rank to the first 100 Institutions in 2021. The process has already been initiated. Initiation of new Centres on: • Digital Health • Precision Agriculture • Entrepreneurship: Strengthen Entrepreneurship based activities in the

University for enhancing employability. 4. Online Content Design Fac University is in the process of developing a State of the Art modern Augmented Reality and proposes to utilise it for attractive content other than running course-specific practical. The University runs in courses in Media Science and Film Making and proposes to use its res creating video lectures and interesting course content. 5. Innovatio Entrepreneurship and Start-up Ecosystem: University has initiated di programmes in a coordinated manner with an intention to encourage th entrepreneurial spirit among its student and alumni community by com start-up assistance through its EKTA Incubation Center and to provid platform to display the technical talent of students and demonstrate innovative ideas. # To initiate Startups through Industry-Academia collaboration with different companies for production. # To develop Departmental and Institutional level innovation and start-up units. Encourage students to earn while they learn by giving fellowships to small real-life projects in the Institution.