YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
• Name of the Head of the institution	Prof. (Dr.) Saikat Maitra
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	03323341014
• Mobile no	9831130882
• Registered e-mail	vc@makautwb.ac.in
• Alternate e-mail address	vc.makaut@gmail.com
• City/Town	Haringhata
• State/UT	West Bengal
• Pin Code	741249
2.Institutional status	
• University	State
• Type of Institution	Co-education
• Location	Semi-Urban

• Name of the IQAC Co-ordinator/Director	`Dr. Somdatta Chakravortty`
• Phone no./Alternate phone no	`919433897685`
• Mobile	`9051570158`
• IQAC e-mail address	`iqac@makautwb.ac.in`
• Alternate Email address	`iqac.makautwb@gmail.com`
3.Website address (Web link of the AQAR (Previous Academic Year)	`https://makautwb.ac.in/iqac/AQAR_` `MAKAUTWB_2019-20.pdf`
4.Whether Academic Calendar prepared during the year?	`Yes`
• if yes, whether it is uploaded in the Institutional website Web link:	

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
`Cycle 1`	`B++`	`2.87`	`2017`	`27/11/2017`	`26/11/2022`

6.Date of Establishment of IQAC	`18/03/2014`

7.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`

8.Whether composition of IQAC as per latest NAAC guidelines	`Yes`

• Upload latest notification of formation of IQAC	View File
9.No. of IQAC meetings held during the year	**8**
• The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)	**Yes**
• (Please upload, minutes of meetings and action taken report)	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**
• If yes, mention the amount	

11.Significant contributions made by IQAC during the current year (maximum five bullets)

1. The University collaborated with the popular online MOOC platform eDX and offered over 2000 courses on Technology, Management, Humanities and trending topics for free. The students, faculty members and staff gained free certifications after completing these courses. 2. Workshops, Faculty Development Programmes and more than 200 Webinars on different areas of technological significance have been organized during the last 4 months. 3. Our University is a Network Institute of IIRS Outreach Network. IIRS conducts various theme oriented online courses and monthly webinars on recent topics on Geospatial Technologies and its Applications. The University is a nodal centre of their outreach network programme. 4. The Coursera for Campus Programme was launched by the University in March, 2020 and 950 learners of MAKAUT including students, faculty members and staff are underwent free courses. The courses were remain free up to 30th November, 2020. 5. A 3-week Computer Literacy Program for non-teaching staff of the University was organized from 06.07.2020 to 27.07.2020.In all, 90 staff members participated in the program. Online classes were scheduled for this program one and a half hours a day, three days a week. The program lasted for a total of 10 classes, i.e. a total of 15 hours. In this programme, the software

required for official work i.e. Microsoft Word, Excel and PowerPoint were demonstrated.

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

Plan of Action	Achievements/Outcomes
Addition of new Undergraduate and Post Graduate programs in emerging technologies depending on availability of resources and industry demand	New UG and PG Programs have been initiated in the academic year
Transparency by setting up E-Governance in the University	ERP has been introduced by integrating the Academics and Administration
To set up a Smart Campus and strong ICT infrastructure and video conferencing facilities.	Smart Classrooms and labs and all classrooms have ICT infrastructure
To enhance Campus green measures like rainwater harvesting, plantation, recycling of wastewater through Sewage Treatment Plants, installation of solar panels etc.	Implementation has been done
To recruit faculty members with PhD with outstanding research/industry exposure and to support existing faculty members complete their PhD	Faculty members who have been recruited are mostly with PhD Degrees
To set up state-of-the-art laboratory infrastructure which is well equipped and fully functional, smart classrooms for blended learning	Several state-of-the-art labs have been developed
To establish research culture amongst students by engaging them in live projects, writing research papers, student projects etc.	Students are working on live projects and are also involved in research publications coming out of their dissertations
To identify thrust areas of Research in emerging areas of	PhD research areas on Artificial Intelligence, Data Science,

technology.	Cybersecurity, Geoinformatics, Forensic Science and many more have been introduced
To make budgetary provisions for Faculty and Student Projects in different Departments of the University	The budgetary provisions have been made in the Financial Budget
To collaborate and network with reputed National and International Universities and Research Organisations for Research and Development, Training and Certifications	MoU's with Academic Institutions and Industry has been done for collaboration
To strengthen the Alumni network by updating the database	The alumni membership of the University has increased
To enhance extra-curricular and co-curricular activities	Setting up of cultural clubs, enhancement of outdoor and indoor sports facilities, Setting up a state of the art gym facilities for boys and girls

13.Whether the AQAR was placed before statutory body?	**Yes**

- Name of the statutory body

Name	Date of meeting(s)
Executive Council	31/05/2022

14.Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	**No**

15.Whether institutional data submitted to AISHE

Year	Date of Submission
2020	20/05/2020

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	**54**
1.2 Number of departments offering academic programmes	**17**

2.Student

2.1 Number of students during the year	**4910**
2.2 Number of outgoing / final year students during the year:	**260**
2.3 Number of students appeared in the University examination during the year	**4910**
2.4 Number of revaluation applications during the year	**0**

3.Academic

3.1 Number of courses in all Programmes during the year	**900**
3.2 Number of full time teachers during the year	**94**
3.3 Number of sanctioned posts during the year	**108**

4.Institution

4.1 Number of eligible applications received for admissions to all the	**5500**

Programmes during the year	
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**45%**
4.3 Total number of classrooms and seminar halls	**52**
4.4 Total number of computers in the campus for academic purpose	**1099**
4.5 Total expenditure excluding salary during the year (INR in lakhs)	**1249.55898**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

All the Curricula have been developed and implemented with the following relevance:

1. **Relevance to Local needs: The skills needed for employment in local Industries and Institution of higher learning in the state have been stressed upon in all the curricula.**
2. **Relevance to regional needs: The skills needed for employment in Industrial enterprises of Eastern region, all the State Govt. organisation of Eastern region and Institution of higher learning of the Eastern region have been focused on curricula specifically as reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of all the programs of the University.**
3. **Relevance to National needs: The skills needed for employment of students in national level industrial enterprises, Central Govt. organisation and Institution of higher learning all over the country have been covered adequately in all the curricula as reflected in POs, PSOs and COs of all the programs of the University.**

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4. Relevance to global developmental needs: The skills needed for
employment of students in International organisations and
International Institution of higher learning have been accommodated
as reflected in POs, PSOs and COs of all the programs of the
University.
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File Description	Documents
Upload relevant supporting document	[View File](#)

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

5

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	[View File](#)

1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

41

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	[View File](#)

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

30

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	[View File](#)

1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course

system has been implemented during the year

07

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

The University has integrated different courses on Professional Ethics, Environment and Sustainability and addressed issues pertaining to gender equality & Human Values through appropriate courses into all the Curricula.All the cross-cutting issues relevant to all the mentioned areas have been embedded in to all the Curricula. All PG and UG curricula contents specific course such as Induction Program, Environmental Sciences, Cyber Law &Ethics, Constitution of India,Essence of Indian Knowledge Tradition, Biology, Research Methodology and IPR, Value Education, Personality Development through life Enlightenment skills etc.

File Description	Documents
Upload relevant supporting document	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

32

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

465

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3.4 - Number of students undertaking field projects / research projects / internships during the year

38

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.4 - Feedback System

1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni	• **All 4 of the above**

File Description	Documents
Upload relevant supporting document	View File

1.4.2 - Feedback processes of the institution may be classified as follows	• **Feedback collected, analysed and action taken and feedback available on website**

File Description	Documents
Upload relevant supporting document	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Demand Ratio

2.1.1.1 - Number of seats available during the year

2010

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

349

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the studentsand organises special Programmes for advanced learners and slow learners

The assessment of the learning levels of the students is done by the teachers in the classrooms during lectures and through conducting class tests, assignments, tutorials, etc; on the basis of which slow and advanced learners are identified.

Slow Learners:

Bridge Courses, Tutorials and Remedial classes are organized, the purpose of which is to give special coaching in areas where they need support.

Additional reading material and books in simple form is made available to increase their understanding of the subject.

Bilingual explanations and discussions are done in the class with the aim of reaching out to the slow learners so that they can be brought at par with the rest of the class.

Peer learning is encouraged through group discussions and presentations. This aids in building a culture of team work and helps to develop leadership as well as interpersonal skills.

Advanced Learners:

Departments through a combination of academic and co-curricular activities encourage the advanced learners to optimize their potential. Such students are encouraged to participate in inter college competitions.

The faculty helps the students to get relevant research projects and publish papers in the field of their choice.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link For Additional Information	Nil

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
1709	100

File Description	Documents
Upload relevant supporting document	[View File](#)

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

Teaching-Learning during the Pandemic

- The University collaborated with online MOOCs platforms such as Coursera and edX and was provided with thousands of free courses offered by top Universities and industries.

- Webinars were organized on recent cutting edge technology and basic technical topics to provide software-based hands-on training.
- Canvas LMS is used by all the students and faculty members for sharing study materials. Also, the content developed by faculty members is uploaded and shared at https://digitalcontent.makautwb.ac.in/
- During class, presentations are used to deliver lectures. To

make students involved in class animations in ppt, the use of diagrammatic representation, including a quiz in between slides can increase the student's interest.

- In the classroom, Polling is conducted to keep the concentration of students on the topic.
- Students participate in preparing content, present in class, and interact with teachers and friends to clear doubts.
- Question banks of each subject are provided to students to practice.
- Assignments are given through LMS.
- The online assessment is conducted through regular assignments, quizzes, and presentations for all students.
- Peer to peer assessments, quizzes, projectsand presentations are implemented for the continuous evaluation process.

File Description	Documents
Upload relevant supporting document	View File

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

ICT: ? SMART Class rooms and Exclusive seminar halls are available to have interactive sessions for difficult subjects and to overcome pandemic consequences.. ? NPTEL video Lectures are available in each Department and the Main Library where the students can access to Learning materials, reference books at any time. ? Online resources such as EDX, Coursera, Udemy etc. are utilized for advanced laboratory demonstrations. ? Students access online video lecture repository (example: https://digitalcontent.makautwb.ac.in/) after class for better understanding of specific topic. ? Web based learning with access to online Journals and E books. ? The learning materials for every Course are available in the content server of MAKAUT which can be accessed by the students through the Intranet facilities available during the College hours.

- E-library facility is available to provide maximum support in pandemic situation

File Description	Documents
Upload relevant supporting document	View File

2.3.3 - Ratio of students to mentor for academic and other related issues during the year

2.3.3.1 - Number of mentors

98

File Description	Documents
Upload relevant supporting document	View File

2.4 - Teacher Profile and Quality

2.4.1 - Total Number of full time teachers against sanctioned posts during the year

128

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.4.2 - Total Number of full time teachers withPh.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

51

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.4.3 - Total teaching experience of full time teachers in the same institution during the year

2.4.3.1 - Total experience of full-time teachers

456

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

2

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.5 - Evaluation Process and Reforms

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

8

2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year

8

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

0

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

The assessment results are uploaded to the integrated ERP System of the University. The final semester assessment examination has been conducted online through the ERP since the start of the pandemic situation.

Assessment Processes is conducted through the Learning Management System, ERP and online tools apart from the physical written examinations.

Procedure for Continuous Evaluation(Internal Marks)

The University has 30 marks for internal assessment for a course (theory). 70 marks are for End semester Examination. 30 marks are distributed as follows:

Class Tests: 15 marks

Assignment & Quiz: 10 marks

Attendance: 5 marks

PRACTICALS

The marks distribution is:

Internal for continuous evaluation -- 40 marks.

End semester exam 60 marks.

For Internal Lab Evaluation, the Viva-voce is carried out on the day of the experiment. Lab report is evaluated by the next lab slot.

SESSIONALS

For sessional subjects evaluation is totally internal over 100 marks. Instead of a single evaluation, it is advised to evaluate it over 6 to 9 parts during the progress of the entire course.

The evaluation process is as per University Examination Guidelines published on Ref No. Regis/25/4081 dated 31.08.2018.

File Description	Documents
Upload relevant supporting document	View File

2.5.4 - Status of automation of Examination division along with approved Examination Manual	**A. 100% automation of entire division & implementation of Examination Management System (EMS)**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

Learning outcomes form an integral part of college vision, mission and objectives. The learning objectives are communicated through various means such as college prospectus, Vice Chancellor's, Director's address to students and parents and dissemination in classroom by concerned staff.

Informing the stakeholders, especially the parents, persuade students towards skill oriented and value based courses. Students are made aware of the course specific outcomes through orientation programme, classroom discussion, expert lectures and practical.

Teachers are also well communicated about the outcomes. The college deputes teachers for workshops, seminars, conferences and FDPs to enrich them to attain the outcomes while teaching learning in the classes. Teachers actively participate in workshops on revision of syllabus organized by the university. Many teachers are also the members of syllabus sub committees, thus the process of perception and outcomes takes place in exact manner and excel the quality of teaching learning.

All our continuous assessments and end semester examinations are focused on these outcomes and designed accordingly. All the faculty members also mapped the questions, case studies, assignments etc with Bloom's Taxonomy i.e. Action verbs as per Bloom's Taxonomy.

File Description	Documents
Upload relevant supporting document	[View File](#)

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

Step 1: Calculating CO level for internal and external exams

The marks obtained by the students for each CO in an exam (internals and university) are listed outbased on the weightage allocated for the CO's in the exam.

Step 2: Calculating Final CO attainment for the subject

Based on the level of CO obtained for internal and external from the above method the final CO attainment is calculated.

Assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes

Measuring Direct Attainment:

The CO is linked to the PO using the CO vs PO matrix as stated in Course Syllabus. The PO attainment is calculated by using the predefined CO/PO matrix and the value of Final CO attainment for the subject.

The PO attainment is calculated by using the formula:

PO attainment = Avg, of CO's of a PO /3 X Final CO attainment for the subject

Measuring Indirect Attainment

The calculations are based on data and surveys collected from the following

- Graduate Survey
- The questions in the survey sheet represent the PO's. Survey is quantified one (1, 2, 3) and they are based on predefined levels like Rubrics defined for direct calculation.

File Description	Documents
Upload relevant supporting document	[View File](#)

2.6.3 - Number of students passed during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

260

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

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

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Every Department in the University has well established and latest research facilities that are in demand for carrying out Faculty and Student research. Some of the facilities worth mentioning are the following:

1. Department of Biotechnology:

   - Immunology Research Lab
   - Fungal Biotechnology Lab
   - Biofuel and Bio refinery Lab
   - Animal Cell culture lab
   - Genetic Engineering Lab
   - Clinical Biotechnology Lab
   - Microbiology Research Lab
   - Computational biology Lab
   - Cell Signaling Research Lab
   - Development & Molecular Biology Lab

2. Information Technology:

   - Artificial Intelligence Lab
   - Data Science Lab
   - IoT Lab
   - Information Security Lab
   - Geoinformatics Lab
   - Innovation Lab

3. Pharmaceutical Technology labs

4. Forensic Science Labs

5. Food Science Labs

6. Material Science Labs

7. Renewable Energy Lab

8. Media Science Lab

9. 3D Printing Lab

10. Robotics Lab

The labs are updated with latest instruments and up-to-date software.

The University has policies to support faculty members and students to carry our research by providing them seed grants and engaging students in University Projects with fellowships. The University also provides funds for attending Seminars, Conferences, organising Workshops and Training Programs for updation o latest technology.

File Description	Documents
Upload relevant supporting document	[View File](#)

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

4 lakhs

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

3

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

20

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.1.5 - Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery	**B. Any 3 of the above**

File Description	Documents
Upload relevant supporting document	View File

3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

6

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)

548.404

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

1040.093

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

21

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

The University, MAKAUT has created EKTA INCUBATION CENTER-TBI. EKTA Incubation ensures that incubatees have access to technological assistance which is generated through mentors with multidisciplinary expertise. Presently, TBI MAKAUT has planned to adopt a three-way program (e.g., facilitation, incubation and translation) for meaningful transfer of research output into successful technology and subsequent contribution towards economic growth. The thrust areas for the incubation are chosen based on the local needs and the strengths of resources existing to the university. These preferred focus areas include.

- A. Technology Startups

With Focus on Intelligent systems, IOT, Micro and Nano Electronics, Biotech, clean tech, Edu tech, Fintech, Health tech, environmental tech, material science tech, sensor, Food technology.

- B. Social Startups

With focus on creating social impact.

File Description	Documents
Upload relevant supporting document	[View File](#)

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

17

3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

17

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

11

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following 1. Inclusion of research ethics in the research methodology course work 2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc) 3. Plagiarism check	**A. All of the above**

4. Research Advisory Committee	

File Description	Documents
Upload relevant supporting document	[View File](#)

3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website	C. Any 2 of the above

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

8

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

10

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

126

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

77

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS	**C. Any 3 of the above**

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

Scopus	Web of Science
0	**3.87**

File Description	Documents
Any additional information	[View File](#)
Bibliometrics of the publications during the year	[View File](#)

3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

Scopus	Web of Science
0	85.69

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

The University follows the Govt. Consultancy policy as follows:

1. 70%-30% share between the individual and university if the entire work is done by the individual.

2. 60%-40% share between the individual and the university if the individual uses University manpower and infrastructure.

File Description	Documents
Upload relevant supporting document	View File

3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

4.48

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

- **Community Kitchen for the COVID19 hit localities of Haringhata and adjoining areas.**
- **Reaching out the YAAS affected community at Hingalganj.**
- **Plantation drive MAKAUT, W.B has taken the initiative to plant more plants so as to compensate the loss due to Yaas. During June, 2021.**

- **Interaction and discussion with Madhyamik and Higher Secondary Students.**
- **Brikhshbandhu The planet is facing critical environmental problems where scarcity of fresh and up to the mark quantity of oxygen in nature is a great matter of concern.**
- **World Environment Day Celebration With the increase of mundane pollution, environment has appeared as a matter of grave concern.**
- **Bigyaner Dishari for School Students Involving School Students in ' Out - of - Syllabus', programme amid the lockdown was the target of MAKAUT VC, Saikat Maitra.**
- **' Tomader Katha'is an on - line programme where students from various invited schools attended and shared their feeling during lockdown. While it started on May 22, 2021.**
- **Career Counseling Program for Students 2020-21. (Online and Off line).**
- **Coding for Everyone Coding is a part of computer learning and MAKAUT, WB. has arranged for teaching those whoever interested. This on line class was started on May 12, 2021.**

File Description	Documents
Upload relevant supporting document	[View File](#)

3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year

3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year

2

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

6

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

0

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.7 - Collaboration

3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

14

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year

59

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

MaulanaAbulKalam Azad University of Technology, West Bengal (Formerly known as West Bengal University of Technology) established in the year 2001 is the only technology university sponsored by state Govt. of West Bengal . Currently University has its lush green -40 acre main campus at NH-12, Haringhata, District Nadia. MAKAUT,WB has state of the art infrastructure, creating an environment for progressive learning and development. We have well equipped classrooms and laboratories as per the AICTE requirements to cater for the academic needs of the students. Apart from regular practical labs, we have research labs in order to serv students pursuing PhD and Post doctoral research. Industry tie up laboratories are also available in order to fill the gap between the curriculum and industry. Every equipment in the lab is assigned with proper marking and numbering. The records of the same are also maintained. Systems are protected with antivirus software. All computers are connected with Wifi and LAN and always maintained in working condition. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum The number and area of the class rooms and labs are as per the AICTE norms.

File Description	Documents
Upload relevant supporting document	[View File](#)

4.1.2 - The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

Sports activities occupy a significant part of the curriculum of all courses running at MAKAUT,WB. Large playing fields support a wide variety of games, such as Cricket, Football and athletics. There are also dedicated spaces for Indoor sport, including Table Tennis, Badminton, Caroms etc in the Girl's and Boy's hostel . Our University is also equipped with a large indoor gymnasium facility

with areas marked for Yoga, Weight Training and Cardio exercises. Students with a passion for music and dance are encouraged to perform/take up training in these arts. Faculty with skill in any of these arts ably support students through campus festivals and motivate them forcompetitions held outside. Large auditorium and seminar hall are there in the campus to organize various kinds of cultural program where students, teachers and non-teaching employees perform. Birthday celebration of eminent scientists and renowned authors regularly organized at our campus.

Link: http://gallery.wbut.ac.in/index.php

File Description	Documents
Upload relevant supporting document	[View File](#)

4.1.3 - Availability of general campus facilities and overall ambience

The main campus of our university is located at NH-12, Haringhata, Nadia, West Bengal covering area of around 40 acres area. The campus is well connected with Kolkata both by train and roadways. Apart from the classrooms and laboratories. University is enable to accommodate large no of students as hostel facilities are available for both boys and girls. Housing facility is also available with newly built building for the employees and teachers. A guest house with all modern facilities is also available. Campus is also furnished with multiple number of shops, small restaurants and eateries which serve the al the students, teachers as well as all the visitors. Our campus is having dedicated area too for mobile and laptop charging. All the buildings of the campus is equipped with lift. Facilities' for differently abled person are also available in every block. Our university also contain beautiful gardens which is maintained regularly. A unique street library is also there atcampus. Marble finished seating arrangement are also placed throughout the campus where visitors can seat and take rest. University also adopted to implement rain harvesting system and ground water recharge system. Water recycling process also startedto reduce water wastage.

File Description	Documents
Upload relevant supporting document	[View File](#)

4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

843.77222

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

The library is using KOHA -the open-source ILS system. It is the first open-source ILS system distributed under GNU GPL license. Automation process of the university library was started in 2006. The university is the first academic institute to use KOHA ILS system. All the day to day library functions like cataloguing, circulation, barcode generation, are done through the ILS system KOHA. Cataloguing was started in 2006 though the circulation was started in 2010. The library is using a single interface, the library portal (http:// library.wbut.ac.in) where the information about library holdings be it the printed collection or the e collection can be obtained through the open-source ILS system KOHA. Barcodes generated in-house through KOHA are used to track down each printed item in the catalogue in day-to-day transaction. e.g. Circulation. The ILS system is regularly updated. Now the latest version is in use. The library portal is http:// library.wbut.ac.in

The university is currently using ERP system. As part of the university Library will also shift to the library module of the ERP system shortly.

File Description	Documents
Upload relevant supporting document	[View File](#)

4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases	**A. Any 4 or all of the above**

File Description	Documents
Upload relevant supporting document	View File

4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)

54.32144

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)

450

File Description	Documents
Upload relevant supporting document	View File

4.3 - IT Infrastructure

4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year

47

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

These initiative have been taken by MAKAUT, WB

- **Digital Inspection of its affiliating colleges, about 200 colleges are now inspected digitally through Video Conferencing.**
- **Cloud-based Self-Appraisal Report (SAR) system for digital inspection (NAAC and NBA accredited).**

- ERP portal (https://makaut.mastersofterp.in) for all faculties, non-teaching staff and students where all the related tasks, such as Internal Assessment Marks is put and leave management system for taking leave as well as putting attendance of students is done, activities regarding Financial department are recorded, etc.
- The lecture' materials of each such as PowerPoint, recorded video, animated video and other learning resources are uploaded in (https://digitalcontent.makautwb.ac.in)
- Proctored end semester examination of all in house and affiliated college students for three semester consecutively.
- Online Exam Portal (https://testprepadmin.liveexam.co.in) where end semester question paper is uploaded and is made according to the assigned subjects of each faculty.
- University library has e-books and journals which helps the students and research scholars.
- Online plagiarism detection software ithenticateis available to improve the quality of thesis and report of the PhD students and faculties.
- online meeting platform (OSOMP), OSUM- university's own operating system, i-Test- the experimental medium of online evaluation, Smriti AI chatbot, v-TV-video repository of the university, Smriti mask scanner etc.

File Description	Documents
Upload relevant supporting document	[View File](#)

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
1193	643

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)	- ?1 GBPS

File Description	Documents
Upload relevant supporting document	[View File](#)

4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing	A. All of the above

File Description	Documents
Upload relevant supporting document	[View File](#)
Upload the data template	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

1249.55898 (INR In Lakhs)

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

There are various facilities available on the University campus, Those are mentioned below;

- The building in the new campus is also complete and functional.
- University Library that boasts more than 34000 books, including E-books. More than 2000 e-journals and more than 10000 e-journals available from consortia (e-Shodha-Sindhu).
- Laboratories, workshops, smart classrooms and an ICT-enabled rooms.
- 400 high-end PCs in different laboratories with a few numbers of dedicated computing facilities and individual PCs and laptops for all faculty members and officers as well as for all the staff of the University.
- Teacher to student ratio as per AICTE norms with excellent 1 GBPS network connection. All the building are now equipped power backup.
- Staff Quarters, Gymnasium, hostels, Medical Centre, Sick Room, Playground, and a Guest House etc.
- Guest house having 37 furnished room with internet and other amenities of international standards.
- Campus is equipped with its own electrical substation and power backup. High speed internet facility, elevators, ramps and wheelchair provided for differently-abled persons.

- **Developed rainwater harvesting and sewerage treatment plant and maintains beautiful well-maintained gardens. The University is also planning to have auditorium and Bank in its new campus at Haringhata and make it a Green near future.**

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

File Description	Documents
Upload relevant supporting document	[View File](#)

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)

16

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

267

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology	**A. All of the above**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	• **All of the above**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

9

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

5.2.2 - Total number of placement of outgoing students during the year

33

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

13

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events (award for a team event should be counted as one) during the year

0

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

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

File Description	Documents
Upload relevant supporting document	View File

5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

15

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapters (registered and functional)contributes significantly to the development of the institution through financial and other support services during the year

Maulana Abul Kalam Azad University of Technology,West Bengal(formally known as West Bengal University of Technology) is proud to have as its alumni a group of engineers, technologists, scientists. Now, we are giving a platform to all to share their experience with each other. The students along with the help of the university, in its endeavour to strengthen the link with the alumni, has set an Alumni Association consisting of a dedicated team of members. The Alumni Office was assisted by the TEQIP and university grant. The Alumni Association has been created at the University which extends several facilities and services to the Alumni to continue and enhance their pleasant association with the university which will be shared ahead.

- **To create programs and opportunities for alumni and Corporations to contribute to the development of MAKAUT,WB.**
- **To manage initiatives and provide support to alumni and Companies to strengthen their engagement with the Institute**
- **To provide support within the Institute to promote and Corporations**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

5.4.2 - Alumni contribution during the year (INR in Lakhs)	**D. 1 Lakhs - 3Lakhs**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

To improve the ranking of the University and offer professional, employment-oriented courses to the students, the University has set up various Schools of Studies in the areas of Computer Sciences, Information Technology, Biotechnology, Management Sciences, Engineering, Natural, Applied and Social Sciences,Food Technology etc. as well as several Departments and Centresunder these Schools, all these initiatives being undertaken in a technology-enabled ambience extensively leveraging Information and Communication Technologies.

The University has beenorganisingregular webinars on each topic to create a sustained effect, publishing digital versions of compendiums prepared by gleaning the knowledge evolving out of these transnational and transdisciplinary interactions, as well as by engaging in survey-based research to gather primary data fromvarious areas.

Through its School Connect and College Connect programmes, the University plans to achieve seamless integration of different levels of education ranging from the School category to the highest echelons of academics.

The University is actively pursuing collaboration with different reputed public and private organisationspossessing core competence in different domains and other skill partners to foster quality teaching-learning practices, complementing and supplementing its own infrastructural and human resources, and enhancing its infrastructural and human resources the employability potential of its students.

File Description	Documents
Upload relevant supporting document	[View File](#)

6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management

All academic stakeholders of the University are involved during the introduction of any new course. Such proposals, initially floated by a Department, are first approved by the Departmental Committee, then by the concerned School. It is then placed before the Academic Council of the University helmed by Directors, HODs, and eminent academicians for scrutiny and vetting. The introduction of the new courses is finally reported and recorded in the meeting of the Executive Council.

A similar practice is followed during the formulation of policies regarding evaluation and assessment processes, framing of the academic calendar, purchase of equipment, infrastructural resources, library books and software, fixing/revising the course fees etc. The Competent Authoritymandates that all proposals should first be drafted by a duly constituted committee and then assessed by different stakeholders either in open forums or by circulation before being accepted. These processes are often iterative in nature thereby facilitating the convergence of opinions to the maximum extent. All such decisions are finally presented and duly ratified by the statutory bodies of the University.

This process cultivates a strong sense of belonging among all the sections, enables adequate ownership of all such decision-making and facilitates their quick and smooth implementation.

File Description	Documents
Upload relevant supporting document	[View File](#)

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

1. Plans have been made to improve the Status of the Institution through attaining NIRF Ranking, A++ Grade in NAAC, increasing the strength of students over 5000, and NBA accreditation for all eligible Under Graduate and Post Graduate Programs of the University.

2. Plans have been made to set up a good governance system by strengthening the E-Governance of the University, the IQAC, Program Assessment Committee and Departmental Committees with internal and external experts for quality assurance in the academic and

administrative process, and the evaluation of the progress of the university through the different regulatory bodies.

3. Strategies have been devised to improve the physical and IT infrastructureby setting up a Smart Campus along with ERP and strong ICTenabled infrastructureand videoconferencing facilities along with the construction of additionalhostels and related facilities, multicuisine food court, e-learning facilitiesand sports facilities. Also, plans have been made to enhance Campus green measures like rainwater harvesting, plantation, recycling of wastewater through Sewage Treatment Plants, installation of solar panels etc.

4. Plans are being made to augment R&D activities (including admission of more full-time PhD students with scholarships), initiate Consultancy services, increaseresearch outcomes and generate IPRs.

File Description	Documents
Upload relevant supporting document	[View File](#)

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The University operates in a highly democratic, decentralized and transparent manner. The Executive Council, the Academic Council, and the Finance Committee meet at regular intervals to review and record the functioning of the different academic and administrative departments. The Executive Council sets the direction for the overall administration, the Academic Council monitors and suggests improvement in academic matters and the Finance Committee takes stock of the financial issues of the University. Other committees such as the Standing Committee on examination matters, the Examination Council, the Inspection Council etc. also meet at periodic intervals or when deemed necessary. Since there is an adequate representation of appropriate stakeholders in these bodies, the sentiments and wisdom of the University system, as a whole, gets documented through the efficient functioning of these committees, whether it is in policy formulation, administrative structuring, appointment rules etc. both at the logical and the implementation levels.

The Departmental Committees, different Research Committees, Library Committee, Anti-Ragging Committee, Institute Innovation Celletc. are also duly constituted and carry out their functioning in an effective and transparent manner. The recommendations of all these committees are finally vetted either by the statutory bodies or the Competent Authority of the University

File Description	Documents
Upload relevant supporting document	[View File](#)

6.2.3 - Institution Implements e-governance in its areas of operations

6.2.3.1 - e-governance is implemented covering following areas of operation 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination	A. All of the above

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	[View File](#)

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

The Faculty Appraisal System is based on Guidelines and terms and conditions towards Career Advancement Scheme published by the Higher Education Department, Govt. of West Bengal, and Career Advancement is subject to fulfillment of required API scores as prescribed in the UGC Regulations for the teachers, librarians and other Academic Staff of the State-aided Universities in West Bengal.

The ACADEMIC PERFORMANCE INDICATORS (API) FOR CAREER ADVANCEMENT SCHEME (CAS) PROMOTIONS FOR ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR AND PROFESSOR IN UNIVERSITIES are based on the following:

Direct Teaching Hours per week Assistant Professor: 16 Associate Professor: 14 Professor: 14

Based on the teacher's self-assessment, API scores are proposed for

: (a) teaching related activities; domain knowledge; (b) participation in examination and evaluation; and (c) contribution to innovative teaching, new courses etc. The minimum API score required by teachers from this category is different for different levels of promotion. The self- assessment score should be based on objectively verifiable records. It shall be finalized by the screening cum evaluation / selection committee. Universities may detail the activities, in case institutional specificities require, adjust the weightages without changing the minimum total API scores required under this category.

Welfare Measures:

Subsidised Medical, those who are not covered under West Bengal Health Scheme, Accident Insurance Policy @ Rs 5, 00,000.00,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.

File Description	Documents
Upload relevant supporting document	View File

6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

5

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

34

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation /

Induction Programmes Refresher Course, Short Term Course)

110

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Maulana Abul Kalam Azad University of Technology (MAKAUT) has taken some long term strategic steps for mobilization and subsequent optimization of resources which are enumerated below in seriatim.

1.MAKAUT has got into a strategic partnership with various bodies for Off-Campus Short Courses with existing resources. The strategic partnerships have not only ensured the inflow of funds but also enhanced the technical study into upcoming industry-oriented subjects. Such strategies have ensured revenue generation as well as optimisation of existing resources.

2.MAKAUT has implemented a long term internal strategy for implementing optimisation of liquid funds (in form of Fixed Deposits) by incorporating a regular practice, of selecting the highest bidding bank. Such a strategy has been possible to implement only through time to time follow-ups and subsequent execution with existing resources.

3.MAKAUT has implemented a long term strategy in form of incorporation of new in-house courses with existing resources and limited modification(s) and optimisation of existing infrastructures. This enables fund generation with the help of existing infrastructure or resources.

4.MAKAUT is on the verge of implementing a complete customised ERP Solution with existing resources. Training of existing manpower has also been provided in this regard.

File Description	Documents
Upload relevant supporting document	View File

6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

`55.56244`

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

6.4.3 - Funds / Grants received from non-government bodies, individuals,philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

`0`

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

6.4.4 - Institution conducts internal and external financial audits regularly

`External Financial Audit: The Accounts of the University is subject to Audit by the Local Audit Department of the CAG. Apart from that, the University gets its Final Accounts Audited by a Chartered Accountants Firm which is selected by inviting open EOI from time to time. The University accounts have been prepared up to the Financial Year 2020-21. Internal Financial Audit:`

`1) The Finance Department works under the supervision of the Finance Committee, Executive Council and under the overall control of the Vice-Chancellor. The Finance Officer is the Head of the Department and the Audit and Accounts Officer is there to look after the Internal Audit Function.`

`2) The University strictly follows a Cash-less Policy and the Finance Department is ERP Driven almost since its inception. There is an in-built internal control mechanism in the software and payments are being made through an internal check mechanism. No payments are made without proper certification of the HOD and Goods Receipt No. (GRN) of the Stock Book maintained with Dept.`

`3) The Finance Officer approves the bills after getting clearance from the Audit and Accounts Officer.`

4) The University receives research project grant from various funding agencies where submission of a Utilization Certificate from the Financial Authority/ Chartered Accountant is a mandatory requirement.

File Description	Documents
Upload relevant supporting document	[View File](#)

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The Academic Audit Committee of MAKAUT has been constituted under the aegis of Internal Assurance Quality Cell(IQAC) to consider and review the University's and Departments mechanisms for monitoring and enhancing academic quality and standards necessary for achieving their stated aims and objectives. The Committee has administered academic audits in every year of the academic session.

Process of Audit : The process of audit requires a self-review in which the University evaluates its progress towards achieving its objectives related to the areas of the audit and identifies areas for improvement. The Committee sits in the beginning and end of each semester to discuss details of intended plans and strategies with respect to enhancement initiatives and evaluate the measures practiced during the academic session. The audit panel comprises Heads of Departments, selected members of faculty and external members. The panel visits the departments to check and verify the academic practices laid down by the committee for evaluation and drafts an Audit Report. The report commends good practice, and makes recommendations intended to assist the Institute in its own programme of continuous improvement of quality. The audit report is put up to the Internal Quality Assurance Cell (IQAC) for monitoring of follow up activities.

Areas of Academic Audit(2020-21):

A. Review of Implementation of Recommendations in Audit of 2019-20

B. Teaching and learning

i) Planning, Design and Review of Programmes and Courses

C. Feedback from Stakeholders

D. Digital Pedagogy during the Pandemic Period

E. Community Engagement

F. Student Assessment

File Description	Documents
Upload relevant supporting document	<u>View File</u>

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	**A. Any 5 or all of the above**

File Description	Documents
Upload the data template	<u>View File</u>
Upload relevant supporting documnent	<u>View File</u>

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

Incremental improvements planned and executed:

1. NBA Visit of B.Tech in IT, B.Tech in CSE and M.Tech in Biotechnology

2. Improvement in student strength across all streams

3. Setting up ERP within the University.

4.Addition of new Undergraduate and Post Graduate programs in emerging technologies

5.Formation of Committees to monitor and implement various activities of the University.

6.Enhancement of Campus green measures like rainwater harvesting, plantation, recycling of wastewater through Sewage Treatment Plants, installation of solar panels etc.

7.Set up state-of-the-art laboratory infrastructure which is well equipped and fully functional, smart classrooms for blended learning

8.Collaboration with Industry and Academia

9. Financial support and seed money to students who want to become Entrepreneurs through its Incubation Cell.

10. Digital Pedagogy during the pandemic period.

File Description	Documents
Upload relevant supporting document	[View File](#)

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

MAKAUT, WB undertakes several initiatives and adopts some steps to promote a culture to respect and equality for female gender and also to provide opportunities and programs for them to be financially, mentally emotionally and psychologically empowered.

- One girl's common room for recreations,
- Appoint female Yoga instructor.
- Well-equipped separate gym for females.
- Separate washrooms on per floor.
- "Women entrepreneurship webinar"
- Felicitate female Science Professors in the occasion of "National Science Day".
- Women security guards along with female warden for Girls Hostel.
- Appointed 3 females psychological counsellors

- **Recruits female security guards.**
- **Installed CCTV cameras in various locations of campus.**
- **Organised a cricket match for female staffs.**
- **Maintains male-female faculty ratio as well as provide opportunities to female professors as Departmental HODs & they run department successfully.**
- **Encourages male-female students' ratio.**
- **Framed a committee, Internal Complaint Committee regarding Sexual Harassment of Women at Workplace, known as Visakha.**

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	1. Safety and security: For security issue university has installed CCTV cameras in various locations of campus. On Campus, University authority organised a cricket match for female staffs. For security of girls' boarders, University has developed and maintain proper Girls Hostel by women security guards along with female warden. University has framed a committee, Internal Complaint Committee regarding Sexual Harassment of Women at Workplace, known as Visakha guidelines – committee, which ensure secured environment and protect women employees at the workplace against sexual harassment. 2. Counselling: University has appointed 3 females psychological counsellors and recruits female security guards. 3. Common rooms: University develops one girls' common room for recreations, appoint female Yoga instructor, built well equipped separate gym for females. 4. Daycare Centre: Nil 5. Any other relevant information: Maulana Abul Kalam Azad University of Technology (MAKAUT, WB) undertakes several initiatives and adopts some steps to promote a culture to respect and equality for female gender and also to provide opportunities and programs for them

to be financially, mentally emotionally and psychologically empowered. University also has encouraged female entrepreneurs through organized "Women entrepreneurship webinar" and honoured female Science Professors as scientists to felicitate them in the occasion of "National Science Day". This helps to promote their growth as individuals in their own right. On Campus, University authority organised a cricket match for female staffs. University authority maintains male-female faculty ratio as well as provide opportunities to female professors as Departmental HODs & they run department successfully. Similarly, authority encourages male-female students' ratio.

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**B. Any 3 of the above**

File Description	Documents
Upload relevant supporting document	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

1. 1. Solid waste management: The plastic recycling process has been initiated. University campus is restricted for environmentally unsafe plastics. Only, environmentally safe plastic is allowed to use and are recycled after use.

   2. Liquid waste management: The University has its own Sewage Treatment Plant (STP) for waste water management.

   3. Biomedical waste management: The University has initiated the formation of the Institutional Biosafety Committee (IBSC).

Since biological samples are being used in almost all practical classes, project works and research activities of all Biological Science related Department therefore process has been initiated for getting approval from DBT, Ministry of Science and Technology, Government of India.

4. E-waste management: The University has its own E-waste management system for electronic waste.

5. Waste recycling system: The University has its own Waste recycling management system.

6. Hazardous chemicals and radioactive waste management: As mentioned in point number 3 that Biosafety Committee (IBSC) formation has initiated to manage all hazardous chemicals and radioactive waste produced as a side product of experiments.

The university has successfully started different types of waste recycling and management process at the Haringhata Campus.

File Description	Documents
Upload relevant supporting document	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:	A. Any 4 or All of the above
1. **Restricted entry of automobiles** 2. **Use of bicycles/ Battery-powered vehicles**	

3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Upload relevant supporting document	[View File](#)

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions/awards**
5. **Beyond the campus environmental promotional activities**

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	[View File](#)

7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software,mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

B. Any 3 of the above

File Description	Documents
Upload relevant supporting document	[View File](#)

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities

(within a maximum of 200 words)

MAKAUT organises cultural programs at regularintervals involving all members of faculty and staff along with their family members to promote unity and harmony which in turn plays the role of enhancement of team spirit.

- **Competitions on academic and extracurricular activities regularly being held not only with students but involving school students as well (through School connect programmes).**
- **MAKAUT is against of all kinds of religious biasness in dealing with students, staff, faculties and social environments.**
- **Students from other provinces get equal privilege and rights and thus creates a healthy cosmopolitan atmosphere.**
- **Hostel facility to students of all genders, communities and cultures is provided.**
- **Faculties, staff and students are eligible to avail approved sectional holidays.**
- **Selection of Faculty and Staff is equally open for all genders and diverse communities.**
- **A series of motivational programmes including the real examples of extraordinary contributions of ordinary people ("SadharonManusherAsadharonGolpo") has been organised.**

A number of social outreach programmes have been launched in collaboration with Bharat Sebashram Sangha to enhance the self-sustainability of marginal persons of the society.

File Description	Documents
Upload relevant supporting document	[View File](View%20File)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

- **Introduction of UG courses of Environmental Sciences, Constitution of India/ Essence of Indian Knowledge Tradition etc.**

PG programs in English for Research Paper Writing, Pedagogy Studies, , Disaster Management, Personality Development through Life Enlightenment Skills, Sanskrit for Technical Knowledge.

- **Webinars has been organized on :**

Digital Education, A New Frontier, Working Throughout The Lockdown, , Entrapedia: Women Entrepreneurs, Mental Well-Being: The Need of the Hour, International Yoga Day, Psychological Counselling, Prospective Areas in Renewable Energy Harvesting to meet Future Energy Demand and Clean Environment Challenges, Role of Indian Information Service in Media Management & Disaster Communication, Creating the best impression: An insight on how to face personal interviews, Entrepreneurship for Students Awareness, Writing For Results: How to craft effective emails, Teacher Day Celebration 2020, Managing Workplace Safety: A Soft Skill with Hard Consequences, World tourism day webinar, From Knowledge to Performance: Bridging the Gap between Thinking and Doing, Cultural Event (96th Birth Anniversary of Late Kanika Bandyopadhyay).

- Women and Employee grievance boxes are placed.
- Anti-ragging cell is active to protect basic rights of students.
- Psychological Counselling, Staff Development Programme on Enhancing Computer Literacy, Workshop on "The Craft of Scientific & Technical Writing (5 days), Spanish Language Certificate Course (Introduction Session).

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized	All of the above

File Description	Documents
Upload relevant supporting document	[View File](#)

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

MAKAUT, WB organizes and celebrates various National and International commemorative days, events and festivals. MAKAUT, WB believes, as its motto says 'In pursuit of knowledge and

excellence', the overall development of a learner is the only way to build a healthy society. In course of man-making and character making, MAKAUT organizes a load of events. Keeping in mind the worldwide pandemic situation most of those events were organized in online mode.

Commemorative national days like Teachers' Day, Independence Day, National Science Day, Gandhi Jayanti, National Statistics Day, Republic Day etc. have been celebrated with all dignity. Commemorative international days like World Environment Day, World Tourism Day, World Photography Day etc. have also been celebrated. Cultural events and celebrations like Rabindra Jayanti, Nababarsha, Agomoni, BijoyaSammilani etc. have been celebrated with the overwhelming enthusiasm and participation of the students. Some other commemorative days like the Birth Anniversaries of Francis Harry Compton Crick, James Clerk Maxwell were also celebrated to pay homage to those great men. Apart from all these, for the school students throughout the state, various cultural events and competitions have been organized. The active and enthusiastic participation of the learning community has always been observed in all these events.

File Description	Documents
Upload relevant supporting document	[View File](#)

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

Title of the Practice:

Technology enabled Community Service

Objectives of the practice:

The objective is to implement new technology enabled services in the community to solve or support the solution of real-life problems of the present times.

The Context:

The current times are wrought with difficulties in different sectors starting with agriculture, healthcare, IT etc. The university being a technical university intends to present new age solutions to the

same through different best practices.

The Practice:

· Mask detector

· Skill development (coding etc.)

· Product (animated lecture) development for free, supplied to the mass

· Online assessment evaluation during pandemic

· Massive webinars training, short term training

· Open-source OS

· Smart and precision farming

· Development of nodal centres for smart and precision farming

Evidence of Success:

The University is dedicated towards educating the farmers of West Bengal and across India about the benefits of precision farming and wants to give them an idea of ??the future technology in agriculture. MAKAUT has decided to help the farmers in their relentless efforts of food production through the precision farming cell.

The university had developed a dedicated website for precision farming, the URL being www.insp.makautwb.ac.in.

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

· Launched newcourses and PhD Programs.

· Centre for Digital Health and the Technology Cell.

· Outreach initiative comprising the School Connect Program - the College Connect Program - the Industry Connect Program was launched.

• The Industry Connect initiative, along with the Ekta Incubation Centre, hosts talk shows by successful entrepreneurs & business leaders besides nurturing student business ideas.

• Conducted over 300 webinars covering a diverse range of topics.

• Launched the Centre for Collaborative Programs in Technology & Research with partner institutes.

• Digitally inspected affiliated colleges & partner institutes.

• Developed the first MOOCs platform (NBCMOOCS) in the state in collaboration with Nikhil Bharat Shiksha Parishad, empanelled under NITI AAYOG.

• An app that screens people not properly masked at the University gate to ensure Covid-appropriate behaviour.

• Launched its own internet-based TV (vTv) to archive all online programs.

• Digitized the complete teaching-learning-examination-evaluation-result publication chain of activities.

Making & distribution of sanitizers & masks; running a community kitchen for the underprivilegedduring the lockdown with help from the District Administration, distribution of relief material to the distressed population in the aftermath of the Yaas cyclone in collaboration with an NGO.

7.3.2 - Plan of action for the next academic year

• Development of more online cloud base technology where resources can be accessed from everywhere by designing local&global cloud systems

• Networking and collaboration with other institutions utilizing more human and infrastructural resources

• Development of state-of-the-art innovation lab and bringing more students under innovation & entrepreneurship programs

• Initiation of cutting-edge technology using energy vehicles, hyper loop, additive manufacturing etc.

• Development of blended system of teaching & learning

· Installation of more renewable energy-based systems like biogas etc.

· Provisions by which more international students get attracted

· Extension of 'earn while you learn' scheme through focusing on research

· Promotion of consultancy services by involving more students

· Facilitate more training programs in management and technologies for different organizations and communities

· Generation of more knowledge repository, such as books, survey reports, journals, magazines etc.

· Skill development of all the employees in handling computer-based activities for discharging their duties in efficient and transparent manners, to increase the scope of automation in academic & administration, data driven activities

· Focus to attract more researchers and talented faculty members

Starting of researches concentrating on more multi & inter-disciplinary areas