



YEARLY STATUS REPORT - 2021-2022

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/AOAR_MAKAUTWB_2020-21.pdf

4. Whether Academic Calendar prepared during the year?

Yes

- if yes, whether it is uploaded in the Institutional website Web link:

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

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 **6**

- 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) **Nil**
- (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. University has become a member of the Bharat Blockchain Network initiated by AICTE and IDS. 2. 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. 3. More than 340 online Workshops, Faculty Development Programmes and Training Programs on different areas of technological significance have been organized during the year. 4. NBA Visit and Accreditation of B. Tech in Information Technology and B. Tech in Computer Science & Engineering for 3 years and M. Tech in Biotechnology for 6 years. 5. The University marches ahead in the e-assessment of examinations and is awarded in the category of Best Summative Assessment from 45 nominations worldwide. 6. The University is amongst the top 10 Technology Schools in India in Employability Index.

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
Initiation of Interdisciplinary Research based programs	The Department of Emerging Technologies under the School of Information Science & Technology has initiated the M. Tech. by

	Research Program in interdisciplinary areas
Initiation of Integrated PhD Program in Technology	The program has been initiated by the School of Information Science & Technology from the 2022-23 Academic Session
To give more emphasis on student entrepreneurship	University has organized several workshops and lecture sessions on Entrepreneurship, students have been incubated by the Ekta Incubation Centre
To increase exposure of students in Industry Projects and Research Projects for experience in live projects	The number of student internships in the Industry have increased significantly. Students are also working on live projects sponsored by the University.
Development of State of the Art Specialised Research Labs	Specialized Research Labs have been established in different departments of the University
Preparation for NBA Accreditation of B. Tech in Information Technology, Computer Science & Engineering and M. Tech. in Biotechnology	Both the B.Tech. Programs have been accredited for 3 years and M. Tech Program for 6 years
Improvement in the E-Assessment process of the University	The University marches ahead in the e-assessment of examinations and is awarded in the category of Best Summative Assessment from 45 nominations worldwide.
Improvement in Placement opportunities of students	The University is amongst the top 10 Technology Schools in India in Employability Index as per Dataquest Survey
Development and use technology for societal benefit	The University has developed its own Operating System and Meeting Platform and has been distributed free to educational institutions

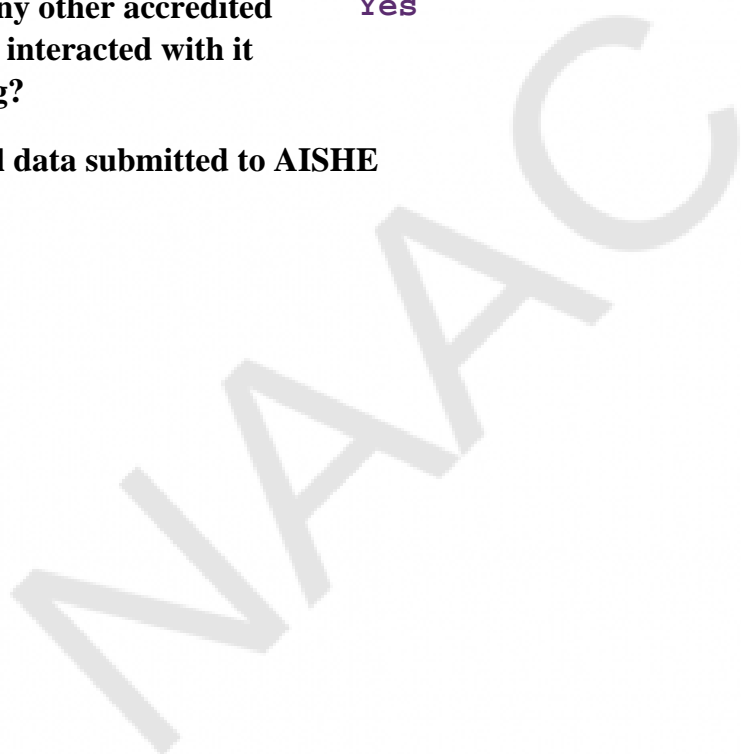
13. Whether the AQAR was placed before statutory body? **Yes**

- Name of the statutory body

Name	Date of meeting(s)
Executive Council	29/09/2022

14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning? **Yes**

15. Whether institutional data submitted to AISHE



Part A

Data of the Institution

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14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	Yes
15. Whether institutional data submitted to AISHE	
Year	Date of Submission
2022	30/04/2022
16. Multidisciplinary / interdisciplinary	
<p>1. University has initiated certification, graduation, and post-graduation programs of interdisciplinary nature in the following areas:</p> <p>i) Robotics and Printing</p> <p>ii) Precision Agriculture</p> <p>iii) Digital Health</p> <p>iv) Heritage Management and Conservation</p> <p>v) Gaming and Mobile App Development</p> <p>vi) Material Science</p> <p>vii) Industrial Engineering and Management</p> <p>vii) Animation and Film Making</p> <p>vii) Geoinformatics</p> <p>viii) Bioinformatics</p> <p>ix) Multimedia Science, Augmented & Virtual Reality</p> <p>2. The University has identified and initiated Ph.D. Research in</p>	

thrust areas of interdisciplinary nature such as Artificial Intelligence, Data Science, Geoinformatics, Forensic Science, Cybersecurity, and many more.

3. The Departments provide the option of offering interdisciplinary courses to students through Open Electives.

4. The University also provides the option of interdisciplinary courses through MOOCs for obtaining Honors Degree.

5. The students do projects and dissertations of interdisciplinary nature through inter-departmental collaboration, industrial collaboration, and joint projects with Scientific and Research Organisations.

6. To spark off interdisciplinary ideation and collaborative initiative, the School of Applied Science and Technology organized APPSCICON22 - an interdisciplinary conference, to foster project/ research-based learning among UG and PG students as well as early-stage Ph.D. scholars.

Some of these courses are offered in a hybrid mode and the physical presence of students is not mandatory.

17.Academic bank of credits (ABC):

1. The University stores its academic awards to students including degrees, diplomas, and certificates along with mark sheets in the National Academic Depository(NAD).

2. The University uploads the mentioned documents to the depository and maps the student's award to the student's account. The student also has access to the depository for retrieval as and when required.

3. The University is maintaining the subject-wise credit of each

student and is awaiting a national platform for integrating the repository.

18.Skill development:

1. Series of webinars and workshops on the required modern skills of today have been organized from time to time. The University has organized more than 200 such programs during the year.

2. University has collaborated with EduSkills Foundation to establish an 'Industry Center of Excellence to institutionalize the skill development courses of various global academies in the University. The objective is to extend the benefits to students, faculty members & technical institutions of the state of West Bengal. Faculty members and students receive training on skills imparted by the following global leaders:

- AWS
- Cisco
- Red Hat
- Blue Prism
- Palo Alto
- Microchip

3. The University has collaborated with Internshala where the students get an opportunity for internships in companies for skill development with a stipend.

4. The University has set up a CENTRE FOR COLLABORATIVE PROGRAMS, TRAINING, AND RESEARCH(CCPTR) to impart training to the learning community in emerging technological areas and to leverage the skill set and expertise in different proficient institutes for training of manpower towards employment opportunities and entrepreneurship development.

The website: <https://ccptr.makautwb.net/>

19.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

1. The Heritage Cell of the University was established with the vision of ensuring the future of heritage study in India. The Heritage Cell has initiated interdisciplinary studies in

conservation, tourism, and archaeology to safeguard our tangible heritage, with the help of writing articles, arranging for lectures, and introducing courses. It has initiated a P.G. Diploma course in Heritage Conservation and Management from the academic session 2022-23.

2. The University offers audit courses to the students such as 'Sanskrit for Technical Knowledge' in line with the model AICTE course curriculum.

3. The University is conducting a webinar series on "Antiquity of Indian civilization: A New Perspective" to understand the influence of Indian culture and ethnic culture of different provinces of India in a better way.

4. The University is also conducting a lecture series on the Great Icons of Bengal Renaissance and their relevance today. It is an initiative of the School Connect and College Connect Programs of MAKAUT.

5. University has organized a lecture series 'Heritage Talks' in which experts talk on the ancient heritage, civilization and culture of India.

20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The Programs in the University focus on Outcome-based Education. The outcomes are measured on the basis of calculating Course outcomes, Program Outcomes, and Program Specific outcomes.

1. The attainment of Course Outcomes of all courses with respect to set attainment levels are recorded.

2. The internal exam questions and Assignment Questions are mapped to their COs . A RUBRIC is used to set up grading criteria through which the level of attainment is calculated.

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

4. To measure Programme Outcome in the direct method a CO/PO matrix is used to measure PO. 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.

5. The indirect method is based on surveys collected from the Graduate Survey.

6. Final PO attainment comprises both the Direct method and Indirect method. Summing them up provides the PO attainment based on the weightage allocated to the direct and indirect attainments.

21.Distance education/online education:

I. MOOCs (Massive Open Online Courses) have been inducted into the University curriculum and academic activities in the following ways:

1. MOOCs for Honours Degree at Undergraduate Level:

For a B.Tech Honours Degree, a B.Tech student will have to earn 20 credits from MOOCs from any established MOOCs platform in addition to 160 credits for a B.Tech degree.

2. MOOCs for mandatory Coursework of Research Scholars for Ph.D. degree:

Research scholars have to take MOOCs as mandatory as a part of the coursework for a Ph.D. degree as per the advice of the Research Supervisor. The credits for the course will be as per the assignment of credit for the course on the University website.

3. MOOCs are also used for credit transfer as equivalent to theory courses of Curriculum under the recommendation of BoS:

University had already introduced the provision of credit transfer through MOOCs courses. Therefore, different courses of curriculum could be taken from MOOCs platforms and credits could be transferred, if offered online and credits are earned.

4. MOOCs for Mandatory Additional Requirements (MAR): MOOCs in MAR are provided for encouraging every student to enter in Digital Content form of Education from well-known Universities or organizations.

II. The University had moved to online teaching-learning during the pandemic period. Even after the initiation of offline classes

in early 2022, our University practices a hybrid mode of learning to serve students who are unable to join offline classes.

III. The University maintains a Learning Management System that stores lecture materials for courses in different programs.

Extended Profile

1.Programme	
1.1 Number of programmes offered during the year:	61
1.2 Number of departments offering academic programmes	36
2.Student	
2.1 Number of students during the year	3410
2.2 Number of outgoing / final year students during the year:	730
2.3 Number of students appeared in the University examination during the year	734
2.4 Number of revaluation applications during the year	0
3.Academic	
3.1 Number of courses in all Programmes during the year	6599
3.2 Number of full time teachers during the year	130

3.3	130
Number of sanctioned posts during the year	
4.Institution	
4.1	2429
Number of eligible applications received for admissions to all the Programmes during the year	
4.2	45%
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	
4.3	52
Total number of classrooms and seminar halls	
4.4	1533
Total number of computers in the campus for academic purpose	
4.5	543.90505
Total expenditure excluding salary during the year (INR in lakhs)	
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.

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.

File Description	Documents
Upload relevant supporting document	View File

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

11

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

30

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

59

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

61

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

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

37

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	
636	
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	
350	
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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

3845

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

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

552

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 students and organises special Programmes for advanced learners and slow learners

Methodologies to support weak students and encourage bright students

Mentoring is done to know the weakness and strengths of students and responses in class. Mentoring is done by considering attendance in theory and lab, academic performance in theory as well as practical, communication skills, writing skills, presentation skills, interest in extracurricular activities, leadership and overall behavior.

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.

Advanced Learners:

Departments through a combination of academic and co-curricular activities encourage 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
3410	145

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

Process to improve quality of Teaching & Learning Process**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 (<https://digitalcontent.makautwb.ac.in/>), presentations are used to deliver lectures. Peer to peer assessment, quiz, projects, and presentations are implemented for the continuous evaluation process. The University has decided to introduce the AICTE model curriculum for its B.Tech Programmes and allow students to choose courses from any established online platform (<http://makautexam.net/pdf21/GUIDELINESFORMOOCJan2021.pdf>).

There is a provision of credit transfer for MOOCs courses. University introduced a requirement of earning MAR activity points for the completion of Degree making students involved in various extracurricular activities. (Link of MAR activity point: <https://makautwb.ac.in/datas/users/0-record%20of%20activities%20for%20mar.pdf>) Students' feedback is collected after completion of each semester and at the end of completion of the course to modify and implement a better teaching methodology. Identifying and taking care of weak students by faculty members and peers.

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 was 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

121

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

145

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 with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

34

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

3.37

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

3

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

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

9

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

9

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.

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	No File Uploaded
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	
<p>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.</p> <p>Informing the stakeholders, especially the parents, persuades students towards skill oriented and value based courses. Students are made aware of the course specific outcomes through orientation programs, classroom discussions, expert lectures and practicals.</p> <p>Teachers are also well communicated about the outcomes. The college deputed 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 the revision of syllabus organized by the university. Many teachers are also members of syllabus sub committees, thus the process of perception and outcomes takes place in an exact manner and excels the quality of teaching learning.</p> <p>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.</p>	
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 forthe 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	
730	
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 the latest instruments and up-to-date software. The University has policies to support faculty members and students to carry out our research by providing them seed grants and engaging students in University Projects with fellowships. The University also provides funds for attending Seminars, Conferences, organizing Workshops and Training Programs for the updation of the 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)

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year	
10	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year	
9	
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	
2	

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)

3 lakh

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)

189.97

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

3 research projects sanctioned in the year

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 has created EKTA INCUBATION CENTER-TBI.

EKTA Incubation ensures that incubates 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 toward economic growth. The thrust areas for the incubation are chosen based on the local needs and the strengths of resources existing in 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, and Food technology.

B. Social Startups With a 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

24

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

24

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
4. Research Advisory Committee

A. All of the above

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**

D. Any 1 of the above

File Description	Documents
Upload the data template	No File Uploaded
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

12

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

138

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

49

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

D. Any 2 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
403.5	118.98

File Description	Documents
Any additional information	No File Uploaded
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
8.017	2.67

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 is 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.

This is based on the Executive Council Meeting resolution dated 4.1.2012

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)

3.2 lakhs

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

1.Face-to-face meeting with Schools administration and Students (Setu-Bandhan)

2.Plantation drive MAKAUT, W.B has taken the initiative to plant more plants

3.Career Counseling Program for School Students(Online and Offline), 2021

4. Program by luminaries from Ramkrishna Mission, Brahmakumaries, and Jain saints on Sorrow, Depression, and Joy for mental well being

5.Briksha- Bandhu

6. World Environment Day

7.Bigyaner Dishari:Pushing students to research the various scientists to know their life and works

8.Tomader Katha:Students from various invited schools attended and

shared their feeling during the lockdown

9. Training on Produce vegetables and fruits at your home without soil

10.Yoga Competition

11.Program on Great Icons:The philosophy of life of renowned personalities

12.Awareness of misuse of Mobile:To make the Student - Community aware of the true need - for base use of mobile phone

13.Learning with Earning

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

0

File Description	Documents
Upload the data template	No File Uploaded
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)

14

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

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

6500 (approx.)

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

60

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.

University has its lush green 40-acre main campus at NH-12, Haringhata, District Nadia. MAKAUT, WB state-of-the-art infrastructure, creating an environment for progressive learning and development. The University has 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 to cater to the student's PhD. PhD and Postdoctoral research. Industry laboratories are also available to fill the gap between the curriculum and industry. Most of the Laboratories are equipped with air conditioning. Every piece of 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 Wi-Fi and LAN and always kept in working condition. Labs are equipped with sufficient hardware and licensed software to run the program-specific curriculum, All the academic buildings of the University are equipped with smart boards, LCD and Wi-Fi to strengthen the teaching-learning process. The blended mode of teaching is possible due the technological advancement and its implementation here. The number and area of the classrooms 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.)

A sound mind coupled with a strong physique is the key to success. Sports activities occupy a significant part of the curriculum of all courses running at MAKAUT. Large playing fields support a wide variety of games, such as Cricket, Football and athletics. There are also dedicated spaces for Indoor sports, including Table Tennis, Badminton, Caroms etc. 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. Recently music corner is established to encourage the students to take music seriously. Faculty with skill in any of

these arts ably support students through campus festivals and motivate them for competitions held outside. A large auditorium and seminar hall are there on the campus to organize various kinds of cultural programs where students, teachers and non-teaching employees perform. Recently a radio station (Radio MAKAUT) is also established to promote students' extracurricular activity. Birthday celebrations of eminent scientists and

renowned authors are regularly organized at our campus. Recently University organized Netaji Subhas State Games in association with Bengal Olympic Association.

File Description	Documents
Upload relevant supporting document	View File

4.1.3 - Availability of general campus facilities and overall ambience

Besides around 40 acres of the Campus area. The University campus is well connected with Kolkata both by train and Roadways. Apart from the classrooms and laboratories, the campus is well equipped with all the modern facilities to cater to students, teachers, and all other employees. Hostel facilities are available for both boys and girls. A housing facility for the employees and teachers and a guest house with all modern facilities are also available. There are multiple numbers of shops, small restaurants and eateries. A dedicated area for the music corner showcasing the talent of budding musicians. All the buildings are equipped with lifts. Facilities for the differently able people are also present in every block. A health centre is there on the campus and Multiple beautiful gardens are also there which are maintained regularly. A unique street library is at the heart of the campus to encourage the habit of reading. Campus cleaning drives are regularly conducted to keep the campus clean and beautiful. Regularly hackathons, quiz competitions, music competitions, student conferences, poster competitions and cultural programs are organized for the students as well as teaching and non-teaching staff.

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)

5,43,90,505/-

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

4.2 - Library as a Learning Resource

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

Library is automated using Integrated Library Management System (ILMS) and has digitisation facility. The library is using Koha -the open-source Integrated Library Management system. It is the first open-source ILS system distributed under GNU GPL license. Automation process of the university library was started in 2005. The university is the first academic institution 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 was using a single interface, the library portal ([http:// library.wbut.ac.in](http://library.wbut.ac.in)) where the information about library holdings be it the printed collection or the collection can be obtained through the open-source ILS system KOHA. Barcodes generated in-house are used to track down each printed item in the catalogue in day-to-day transaction. e.g. Circulation. The ILS system was regularly updated. The library portal is <http:// library.wbut.ac.in>. To keep pace with the recent developments the university has decided to shift to Koha cloud service. The process of shifting to cloud service is going on.

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

B. Any 3 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)

54.21

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

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

7982

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**

49

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

MAKAUT maintains certain policies about the use and security of its computer systems, networks, and information resources. All users of these facilities, including technology developers, end users, and resource administrators, are expected to be familiar with these policies and the consequences of violation. MAKAUT has initiated a new age of Digital Inspection of its affiliating colleges. About 200 colleges are now inspected digitally through Video Conferencing from the Digital Studio. AICTE has also appreciated this initiative. MAKAUT has developed a Cloud-based Self Appraisal Report (SAR) system for digital inspection and the evaluation criteria include parameters from NAAC and NBA

accreditation. There is a separate ERP portal (<https://makaut.mastersofterp.in>) for faculties and students where all the related tasks of faculties such as Internal Assessment Marks are put and leave management system for taking leave as well as putting attendance of students is done etc. There is a separate test Online Exam Portal (<https://testprepadmin.liveexam.co.in>) where the end semester question paper is uploaded and is made according to the assigned subjects of each faculty. The lecture materials of each such as PowerPoint, recorded video, animated video and other learning resources are uploaded to <https://digitalcontent.makautwb.ac.in/> to keep track of the activity of each faculty.

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
2971	968

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

28,37,93,588/-

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.

The university has an excellent Library that boasts more than 34000 books, including E-books. There are more than 10000 e-journals available from consortia (e-Shodha-Sindhu). Besides University has an adequate number of laboratories, workshops, smart classrooms and ICT-enabled rooms. The campus is equipped with more than 400 high-end PCs in different laboratories with dedicated computing facilities and individual PCs and laptops for all faculty members, officers and staff. The University has a commendable teacher-to-student ratio as per AICTE norms with an excellent 1 GBPS network connection. All the buildings are now equipped with power backup. The campus is having several facilities like Staff Quarters, Gymnasium, hostels, Medical Centre, Sick Room, Playground, a Guest House etc. The guest house has ample accommodation that includes 37 furnished rooms with internet and other amenities of international standards. The campus is equipped with an electrical substation and power backup. The campus has a high-speed Internet facility. There are elevators, ramps and wheelchairs provided for differently-abled persons. The University has also developed a rainwater harvesting and sewerage treatment plant and maintains beautiful well-maintained gardens. The University is also planning to have an auditorium and Bank on campus.

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)

848

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

2148

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	View File

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	
10	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.2.2 - Total number of placement of outgoing students during the year	
80	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
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	View File
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	
37	

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

21

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

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

The Maulana Abul Kalam Azad University of Technology, West Bengal is proud to have as its alumni a group of engineers, technologists, and 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 endeavor to strengthen the link with the alumni, have set up an Alumni Association consisting of a dedicated team of members.

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.

Major activities of the Association are given below:

- The University has appointed a coordinator for alumni association who coordinates and organizes all the activities of the association.
- A website stands already been created providing details about the activities of the office and the members of the association.
- The University has also consolidated the Alumni list which is continuously updated.
- Some of the senior alumni members have been offering their services in terms of mentorship, giving guest lectures, and also helping the students in their placements.

A Virtual Alumni Meet was organized on 12th December 2021.

File Description	Documents
Upload relevant supporting document	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) E. <1Lakhs

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

- The University has set up various Schools of Studies as well as a number of Departments and Centres in a technology enabled ambience extensively leveraging Information and Communication Technologies.
- The University creates knowledge repositories and disseminates them by organizing seminars, workshops and webinars, publishing digital versions of compendiums, as

well as engaging in survey-based research.

- Through its School Connect and College Connect programs, the University plans to achieve integration of different levels of education ranging from the School to the highest echelons of academics, hoping to inspire value-based, dynamic and progressive thinking that can usher in meaningful social changes.
- The primary objective of the University is to equip the students with industry ready skill sets and thereby enhance their employability through collaboration with different reputed public and private sector organizations. In parallel with teaching, the University will send students to the collaborating skill partners for the practical classes, laboratory sessions, hands-on exercises and on-the-job training as per course contents and requirements of the program.
- The University administration is in complete sync with these academic initiatives thereby clearly affirming its goal of achieving the stated vision and mission of the University.

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

- The academic and administrative setup of the University is based on a "bottom-up" approach which ensures devolution of power and authority:
- All academic stakeholders of the University are involved during introduction of any new course. Such proposals, are submitted to the Competent Authority through the Department and School and then before the Academic Council of the University helmed by Directors, HODs, eminent academicians for scrutiny and vetting, and then taking it ahead to report 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 the academic calendar, purchase of equipment, infrastructural resources, library books and software, fixing/revising the course fees etc. The Competent Authority of the University mandates that all proposals should first be drafted by a duly constituted committee, followed by assess by different stakeholders either in open forums or by circulation before being accepted. These processes are often

iterative in nature thereby facilitating convergence of opinions to the maximum extent. All such decisions are finally presented and duly ratified in the statutory bodies of the University.

- This process eventually enables adequate ownership of all such decision-making thereby facilitating 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

The biggest challenge facing the University is to expand its operations, increase student strength, expand the faculty base, augment infrastructure, establish new Departments having better employment opportunities, and facilitate training, research, and consultancy activities in cutting-edge areas. As part of this initiative, the University has endorsed the establishment of various Departments including those in operation in different affiliated Colleges. The objective is to ensure that the University will be in a position to offer all these courses in the future when the NEP 2020 will be fully formalized. The Departments will be made fully operational in due course by putting in place adequate infrastructure and engaging adequate teachers and non-teaching employees. Currently, there are eleven fully functional Schools of Study, with different Departments and Centres under these Schools. The student base (In-House) has been significantly expanded to around 4000, including those in collaborative programs. A number of laboratories, including those in advanced technical areas, have already been functioning on the University campus. Thus, the University has succeeded in setting up a fully functional academic ecosystem complete with different Departments in the areas of Technology, Science, Management, and other professional programs, a vibrant student community, as well as research, development, and training activities.

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 statutory bodies of the University meet at regular intervals to review and record the functioning of the different academic and administrative departments, through the Academic and Executive Councils, respectively. Also Finance Committee, Standing Committee in examination, the Examination Council, the Inspection Council etc. also function likewise for policy formulation, administrative structuring, appointment rules, etc. both at the logical and the implementation levels, as adequate representation of all stakeholders ardently exists.
- The Departmental Committees, Departmental Research Committees, School Research Committees, Library Committee, Anti-Ragging Committee, Institute Innovation Cell, Purchase Committee, etc. function effectively and transparently, where all recommendations are finally vetted by the statutory bodies / Competent Authority of the University.
- IQAC Cell periodically updates documented appointments and service rules that are duly ratified by the University statutory bodies. All recruitments are done in a transparent manner by the University-constituted selection committees.
- University has a well-defined administrative set up comprised of the following: The Vice Chancellor; the academic and administrative Chief, the Registrar; responsible for all administrative activities along with other principal officers. Progress and monitoring of academic activities are done by the Directors of the different Schools, Heads of the Departments and Centre Coordinators under the guidance of the respective Directors.

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

A. All of the above

4. Examination

File Description	Documents
Upload the data template	View File
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 performance of the faculty members as well as non-teaching employees of the University is evaluated through Self-Assessment-Reports (SAR) by the University authorities. The design is different in case of teachers and non-teaching employees because of the different job descriptions, roles and responsibilities. The employees are provided with opportunities for promotions through Career Advancement Schemes (CAS). The entire activity is carried out under the aegis of the IQAC of the University (through SAR Submission and Expert team's recommendations), that facilitates promotion / advancement of the employees by regularly monitoring their progress, and the results of the process are ratified in the Executive Council of the University.

The University has also set up several welfare schemes for the benefit of both teaching and non-teaching employees. These include transport services, medical facilities on the campus, wellness, gymnasium and sporting facilities on the campus and medical insurance schemes, to name a few. The teachers were provided with free Wifi packs, laptops, and other teaching gadgets during the pandemic induced lockdown so as to ensure an unhindered teaching-learning environment. The University provides seed funding to young faculty members as well as liberal travel grants to different sections of employees.

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

1

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

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

191

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

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)

44

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

6.4 - Financial Management and Resource Mobilization

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

- **MAKAUT has got into strategic partnership with various bodies for Off-Campus Short Courses with existing resources. The strategic partnerships havenot only ensured inflow of funds but also enhanced the technical study into up-coming industry oriented subjects. Such strategy have ensured revenue generation as well as optimisation of existing resources.**
- **MAKAUT has implemented a long term internal strategy for implementingoptimisation of liquid funds (in form of Fixed Deposits) by incorporating aregularpractice, through selection of the highest bidding bank. Such strategy has been possible to implement only through time to time followups and subsequent execution with existing resources.**
- **MAKAUT has implemented a long term strategy in form of**

incorporation of new in-house courses with existing resources and limited modification(s) along with optimisation of existing infrastructures. This enables fund generation with the help of existing infrastructure or resources.

- MAKAUT has implemented 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)

53249862

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

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)

25

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

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 grants 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 audit report is put up to the Internal Quality Assurance Cell (IQAC) for monitoring of follow up activities.

Areas of Academic Audit(2021-22):

1. Curricular Aspects

2. Teaching-Learning and Evaluation

3. Research and Innovation

File Description	Documents
Upload relevant supporting document	View File

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	View File
Upload relevant supporting document	View File

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 have been made in the following areas:

1. Improvement of the Status of the Institution
2. Good Governance
3. Physical and IT Infrastructure
4. Teaching -Learning Resources
5. Placement
6. Research and Development, Patents and Consultancy
7. Collaboration with Industry and Academia

8. Extracurricular and Co-curricular Activities

Post Accreditation Quality Initiatives are as follows:

1. To create Centres of Excellence through reputed Industry/University collaborations in Artificial Intelligence, Cybersecurity, Biotechnology, Pharmaceutical Technology, Geo-informatics etc.
2. To attain Ranking in International Ranking Frameworks.
3. To create a Food Processing Hub, Information Technology Hub, Technology-driven Sports Complex.
4. To have an Interdisciplinary Curriculum with Technology blended with Social Science and Humanities and have courses in the areas of Law, Agriculture and Medical Science.
5. To have University Campuses at multiple locations.
6. To be a hub for Local Entrepreneurs offering technology solutions
7. To bring the University in front-row of Indian Universities by producing quality and socially relevant research.

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

The University has taken initiatives to encourage a culture of respect and equality for the female gender and to offer opportunities for their empowerment. The university built a dedicated female-only leisure area, hired a female yoga instructor, equips a separate female-only gym, and creates female-only restrooms on each level. In addition, the university celebrated female science professors as scientists on the occasion

of "National Science Day" and encouraged female entrepreneurs by hosting a few couples of webinars on Entrepreneurship. The university has a female hostel with female wardens and security guards for the safety of the boarders who are girls. The university has hired female security guards and assigned three female psychological counselors. The university administration organized two sporting events on campus: a 100-meter run for female employees under 40 age group and a walk for female employees over 40 age group. University authority maintains a male-female faculty ratio as well as provides opportunities to female professors as Departmental HODs & they run the department successfully. Similarly, authority encourages a male-female student ratio. University has formed the Internal Complaint Committee known as the Visakhacommitee, which ensures a secured environment and protects women employees at the workplace against sexual harassment.

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	<p>The Maulana Abul Kalam Azad University of Technology (MAKAUT, WB) takes part in a number of initiatives and implements some measures to encourage a culture of respect and equality for female gender and to offer opportunities and programmes for their empowerment on the levels of money, mind, emotion, and psychology. The university builds a dedicated female-only leisure area, hires a female yoga instructor, equips a separate female-only gym, and creates female-only restrooms on each level. In addition, the university celebrated female science professors as scientists on the occasion of</p>
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	<p>a. Safety and security: The institution has deployed CCTV cameras around campus as a security measure. A cricket match for female employees was organised on campus by the university administration. The</p>

university has created and is maintaining a suitable female hostel with female wardens and security guards for the safety of the boarders who are girls. Internal Complaint Committee about Sexual Harassment of Women at Workplace, also known as Visakha Guidelines Committee, has been established by the university to provide a safe atmosphere and safeguard female employees from sexual harassment.

b. Counselling: The university has hired female security guards and assigned three female psychological counsellors.

c. Common rooms: The university creates a common area for girls to enjoy themselves, hires a woman to teach yoga, and constructs a well-equipped separate gym for women.

d. Day-care Centre: Under Process

e. Additional pertinent data: The Maulana Abul Kalam Azad University of Technology (MAKAUT, WB) takes part in a number of initiatives and implements some measures to encourage a culture of respect and equality for female gender and to offer opportunities and programmes for their empowerment on the levels of money, mind, emotion, and psychology. In addition, the university celebrated female science professors as scientists on the occasion of

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

The university has initiated differing kinds of waste usage and management method at the campus of Haringhata very successfully. Specific waste management processes are explained elaborately given below

1. Solid waste management: The plastic utilization (recycling) process has been started. University campus is prohibited for environmentally hazardous plastics. Only, environmentally safe plastic is allowed to use and recycled after use.

2. Liquid waste management: MAKAUT, WB already has its own Sewage Treatment Plant (STP) for waste-water control.

3. Biomedical waste management: MAKAUT, WB has already started the formation of the Institutional Biosafety Committee (IBSC). The university strictly conforms to the standard for the management of biological wastes which are created by almost all practical classes, project works and research activities of all Biological Science related Department.

4. E-waste management: E-waste management system for electronic waste is being properly maintained by the University.

5. Waste recycling system: Waste recycling management system is part and parcel of the university.

6. Hazardous chemicals and radioactive waste management: There is an Institutional Biosafety Committee (IBSC) for proper controlling of Hazardous chemicals and radioactive waste management which may be generated as side products from the experiments.

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: <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping 	A. Any 4 or All of the above
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: <ol style="list-style-type: none"> 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	A. Any 4 or all of the above

of reading materials, screen reading, etc.

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 organizes cultural programs at regular intervals 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 (Poster Competition, Poster presentation of papers, Band Competition, Music Competition) are regularly being held not only with students but involving school students as well
- The lecture series talk "BignanerDishari" has been revived with a new format as a part of the school connect program.
- Students from other provinces get equal privilege and rights and thus create a healthy cosmopolitan atmosphere.
- Hostel facility to students irrespective of genders, communities and cultures, is provided.
- Faculties, staff and students are eligible to avail approved sectional/restricted holidays.
- Selection of Faculty and Staff is equally open for all genders and diverse communities.
- A series of motivational programmes (Series entitled "Dukkha: Abasad: Ananda") as well as 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

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

Extension of the awareness of professional values and ethics, rights, and responsibilities by:

- Introducing the courses like Constitution of India/Essence of Indian Traditional Knowledge, Environmental Sciences/Engg. etc. in Undergraduate Program.
- Introducing the courses like Value Education, Personality Development through Life Enlightenment Skills, Disaster Management, Sanskrit for Technical Knowledge, Stress Management by Yoga, Pedagogy Studies, and English for Research Paper Writing in Post-graduate Program.
- Webinars on:
- Achieving 'Value Proposition Fit' and 'Business Fit', Digital Education, Antiquity of Indian Civilization: A New Perspective, Introduction to Green Building and Initiatives, Innovation/Start-up/Entrepreneurial Activities, Learning with Earning, Financial Challenges in Food Industry Entrepreneurship, Financial Empowerment and Career Options in Securities Market, Green Entrepreneurship: World Environment Day Celebration - 2022, Company Formation by Statutory Liabilities,

Protection of Human Rights

- Complaint/Grievance boxes are kept in prominent places in the University premise to maintain a harmonious educational environment. University maintains a Women grievance cell too. An anti-ragging committee has been constituted to ensure the prevention of potential ragging on the students.

Workshops/Learning/Development

Workshop on "Good Management Practices for Energy Efficient Buildings by Introducing Passive Cooling Designs to reduce operational costs, improve health and promote use of Non-HCFC and low-GWP" alternatives, Psychological Counselling.

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

The university always encourages the students, teachers and other stakeholders to engage themselves and others to celebrate/organizes

various events and programs throughout the years. Like every year, in this AY 2021-22 the university has taken up initiatives and encouraged all to celebrate/ organize the following programs-

- Teachers' day
- Independence Day
- Science day
- World environment day
- World tourism day
- Gandhi Jayanti celebration
- Birth Anniversary Celebration of Albert Einstein
- Bijoyasammilani
- Nababarsa
- Birth Anniversary Celebration of Leonardo da Vinci
- Rabindra Jayanti celebration
- World Photography Day
- University Tech & Cultural Fest
- Netaji Subhas State Games 2022

• **Lecture Series on the Life and Work of Great Personalities**

International Day of Yoga celebration

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:

Industry Connect in Teaching Learning and Research in Thrust Areas and Cutting Edge Technologies.

Objectives of the practice:

To develop an ecosystem with a focus on skill development and industry-oriented research to enhance employability through modern education.

The Context:

Demand for skilled youth in cutting-edge technologies and the need for advancement in thrust areas.

The Practice:

The University has collaborated with renowned industry partners to increase the skills and employability of the young generation for internships, training, projects, and research. The University has signed MoU and is carrying out a number of Certification and Diploma courses in collaboration with different industry partners and institutions.

The University has initiated Undergraduate, Post Graduate, and Research Programs in new areas that are in trend with the latest technologies such as Artificial Intelligence, Cyber Security, Data Science, Geoinformatics, Business and Data Analytics, Pharmaceutical Technology, etc.

Evidence of Success:

- Increase in sustained and high-quality placement opportunities for students
- Increase in Research Publications and Projects of Faculty Members on emerging areas.

Problems Encountered and Resources Required:

- A gap between academic practices and industry requirements
- Lack of domain experts in specialized areas

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)

MAKAUT believes in "Technology for All, Technology with a Human Face". This is exemplified through numerous activities that it has undertaken last year.

- The complete process of teaching-learning-examination-evaluation-result publication chain of activities was fully digitized.
- Centre for Collaborative Programs in Technology & Research was launched with partner institutes to spread the reach of affordable courses imparting diverse skills
- Commissioning of new Centres like the Centre for Digital Health, Precision Agriculture, and the Technology Cell.
- A 360-degree outreach initiative consisting of the School Connect Program - the College Connect Program - the Industry Connect Program was launched
- The Industry Connect initiative, along with the Ekta Incubation Centre and the Industry-Institute Partnership Cell, hosts talk shows by successful entrepreneurs & business leaders besides incubating student business ideas.
- Over 400 webinars covering a diverse range of topics were conducted.
- Digital inspection was carried out for affiliated colleges & partner institutes.
- The first MOOCs platform (NBCMOOCS) was developed in the state in collaboration with Nikhil Bharat Shiksha Parishad, empanelled under NITI AAYOG.
- An app was developed and launched that screens people not properly masked at the University gate to ensure Covid-appropriate behaviour.
- University launched its own internet-based TV (vTv) to

archive all online programs.

7.3.2 - Plan of action for the next academic year

- Development of more online cloud-based 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, hyperloop, additive manufacturing, etc.
- Development of a blended system of teaching & learning
- Installation of more renewable energy-based systems like windmills, 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 repositories, 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 research concentrating on more multi & inter-disciplinary areas