

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**



**Information Brochure (Rolling)  
Ph. D Admissions 2019-20**

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

(Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Main Campus: NH 12, Haringhata, Post Office-Simhat, Police Station-Haringhata, Pin - 741249

City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064

Applications are invited for admission to the Doctor of Philosophy (Ph. D) programme under this University in the disciplines of Engineering, Technology, Applied Science and Management who have cleared UGC/CSIR (JRF) Examinations/NET/SLET/GATE/Research Fellowship or have passed equivalent examinations or passed the M.Phil./M.E/M. Tech./M.D/M. Pharm or equivalent examination. Selection of these candidates will be determined on basis of their performance in the Interview.

Note:

- Candidates belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled categories shall have to possess minimum 45% marks or an equivalent CGPA.
- A relaxation of 5% of marks, from 55% to 50%, may be allowed to the candidates, who had obtained their Master's degree prior to 19th September, 1991.
- The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of marks to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.
- The latest UGC norms shall be followed.

**2. Award of Ph. D degree:**

- a. The candidates selected after interview shall be allowed to enrol under Ph. D programme of this University.
- b. Within two years of enrolment, candidate shall have to complete the course work through MOOCs study only.
- c. After successful completion of the course work, candidates shall be registered under Ph. D programme.
- d. Ph.D. degree shall be awarded on the basis of satisfactory performance of a registered candidate in
  - i. Pre-submission seminar
  - ii. One (1) publication as first author in a refereed UGC approved journals and two (2) presentations in international/national conferences/seminars.
  - iii. Submission of the thesis and final viva voce. The thesis shall be the report of research work characterized by either discovery of new facts or a new interpretation of known facts and theory, or an independent design and/or development of new instrument/technology.

**3. Documents to be submitted:**

- a. Fill up the online application with all necessary informations.
- b. Download the filled application and take a print out.
- c. Documents to be attached at the time of submission:

- i. Print out of filled application form.
  - ii. A copy (self-attested) of all Degree Mark sheets/Certificates detailed in the application form.
  - iii. A copy (self-attested) of MAKAUT, WB registration certificate.
  - iv. A copy (self-attested) of requisite certificate for exemption from Entrance Test.
  - v. Summary of the proposed work consisting of Introduction and Expected outcome (word limits 500 words)
  - vi. Six copies of **Plan of Work** duly countersigned by the Supervisor(s) with Seal. The **Plan of Work** shall consist maximum 4 pages. The **Plan of work** shall consist—
    - (a) Title of the Research Topic
    - (b) Literature Study on latest research works (emphasis on last five preceding years)
    - (c) What is the Gap/Lack in the previous research works
    - (d) Objectives (How particular research work shall address the gap/lack).
    - (e) Possible methodology (with justification with respect to the present context of research)
    - (f) Expected outcome/deliverables
    - (g) References
  - vii. Copy of Supervisor(s) latest bio-data duly signed along with list of publications.
  - viii. No objection certificate from employer in original along with Photo copy of the same, in case of employed applicant.
  - ix. Two photographs (Passport size), one to be affixed on this form with the Principal Supervisor's signature & seal and one without signature & seal to be attached (for use in the Ph.D. registration letter) with this form
  - x. Supervisor's (permission) letter in case the research programme requires utilization of facilities outside the jurisdiction of MAKAUT, WB.
  - xi. Form to be submitted along with Rs. 500/- Demand Draft drawn in favour of 'MAKAUT, West Bengal' payable at Kalyani.
- In the case of students of other Universities, necessary application for migration and registration should be submitted to the Registrar separately along with Migration Certificate in original and usual migration and registration fees immediately after registration for the Ph.D. programme.
- xii. Send at the following address- The Convener, PhD Cell, Maulana Abul Kalam Azad University of Technology, West Bengal, Simhat, Haringhata, NH-12, Nadia, 741249.

#### **4. Fee Structure:**

- a. Rs-500/- (Five Hundred) only as application fee.
- b. Rs-2000/- (Two Thousand) only at the time of interview for enrolment.
- c. Rs-6000/- (Six Thousand) only for enrolment.
- d. Rs-19,500/- (Nineteen thousand and five hundred) only for submission of Thesis.

## General Informations

### **5. Course Work:**

- 5.1. As per the latest UGC norms, the credit assigned to the Ph.D. course work shall be a minimum of 08 credits and a maximum of 16 credits.
- 5.2. A research scholar shall complete at least one (1) course on Research Methodology (RM). A list of courses on RM conducted through MOOCs available in the University website. Scholar shall choose the course on RM from the particular list and minimum of three (3) credits to be earn.
- 5.3. A research scholar shall complete at least two (2) courses as Elective I and Elective II through MOOCs and shall earn at least six (6) credit points from elective papers.
- 5.4. Research Supervisors shall guide the research scholar to choose courses (on elective papers) available in MOOCs in close conformity of the research topic of the scholar.
- 5.5. The research scholar shall earn credit point after successfully completion of the course through MOOCs.
- 5.6. A Ph.D. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the UGC 7-point scale (or an equivalent grade/CGPA) in the course work in order to be eligible to continue in the programme.
- 5.7. The candidate shall submit the certificates showing the credit points earn through MOOCs to the University.
- 5.8. Course work completion certificate shall be provided by the candidate from the University after satisfying all the condition mentioned above.

### **6. Publication and Seminar/Conferences:**

To obtain Ph. D degree from this University,

- 6.1. Candidate shall publish at least one (1) research article as 1<sup>st</sup> author in a refereed UGC approved journals based on his/her Ph. D related work.
- 6.2. Candidate shall present at least two papers based on his/her Ph. D related work in National/ International seminar or conferences.

### **7. Research Advisory Committee:**

7.1. There shall be a Research Advisory Committee for each Ph.D. scholar. This Committee shall be constituted by the Supervisor and consist of minimum four (4) members as:

7.1.1 Chairperson—Subject expert

7.1.2. Convener—Supervisor

7.1.3. Member—Joint/Associate Supervisor or a Faculty

7.1.4. Member—Expert outside the department

7.2. The committee shall have the following responsibilities:

7.2.1. To review the research proposal and finalize the topic of research;

7.2.2. To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.

7.2.3. To periodically review and assist in the progress of the research work of the research scholar.

7.3. A research scholar shall appear before the Research Advisory Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The six monthly progress reports shall be submitted by the Research Advisory Committee to the Ph. D cell of the University with a copy to the research scholar.

7.4. In case the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Research Advisory Committee may recommend to the Institution/College with specific reasons for cancellation of the registration of the research scholar.

#### **8. Departmental Academic Integrity Panel:**

8.1. All Departments running under MAKAUT shall constitute a Departmental Academic Integrity Panel (DAIP) whose composition shall be as given below:

8.1.1. Chairperson-Head of the Department

8.1.2. Member-Senior academician from outside the department, to be nominated by Honourable Vice Chancellor of this University

8.1.3. Member-A person well versed with anti-plagiarism tools, to be nominated by the Head of the Department.

The tenure of the members in respect of points 'b' and 'c' shall be two years. The quorum for the meetings shall be 2 out of 3 members (including Chairperson).

8.2. The DAIP shall follow the principles of natural justice while deciding about the allegation of plagiarism against the student, faculty, researcher and staff.

8.3. If any member of the academic community suspects with appropriate proof that a case of plagiarism has happened in any document, he or she shall report it to the Departmental Academic Integrity Panel (DAIP). Upon receipt of such a complaint or allegation the DAIP shall investigate the matter and submit its recommendations to the Institutional Academic Integrity Panel (IAIP) of the University. All such cases will be investigated by the IAIP and submit its report to Honourable Vice Chancellor of the University.

#### **9. Plagiarism:**

University has adopted following mechanisms to ensure that documents such as thesis, dissertation, publications or any other such documents are free of plagiarism at the time of their submission.

9.1. Every student submitting a thesis, dissertation, or any other such documents to the University shall submit an undertaking indicating that the document has been prepared by him or her and that the document is his/her original work and free of any plagiarism.

9.2. Each supervisor shall submit a certificate indicating that the work done by the researcher under him/her is plagiarism free.

9.3. The similarity checks for plagiarism shall exclude the following:

- i. All quoted work reproduced with all necessary permission and/or attribution.
- ii. All references, bibliography, table of content, preface and acknowledgements.
- iii. All generic terms, laws, standard symbols and standards equations.

9.4. The research work carried out by the student, faculty, researcher and staff shall be based on original ideas, which shall include abstract, summary, hypothesis, observations, results, conclusions and recommendations only and shall not have any similarities. It shall exclude a common knowledge or coincidental terms, up to fourteen (14) consecutive words.

9.5. Plagiarism shall be quantified into following levels in ascending order of severity for the purpose of its definition:

i. Level 0: Similarities up to 10% - Minor Similarities, no penalty.

ii. Level 1: Similarities above 10% to 40% - Such student shall be asked to submit a revised script within a stipulated time period not exceeding 6 months.

iii. Level 2: Similarities above 40% to 60% - Such student shall be debarred from submitting a revised script for a period of one year.

iv. Level 3: Similarities above 60% -Such student registration for that programme shall be cancelled.

9.6. Penalty on repeated plagiarism:

Such student shall be punished for the plagiarism of one level higher than the previous level committed by him/her. In case where plagiarism of highest level is committed then the punishment for the same shall be operative.

9.7. Penalty in case where the degree/credit has already been obtained:

If plagiarism is proved on a date later than the date of award of degree or credit as the case may be then his/her degree or credit shall be put in abeyance for a period recommended by the IAIP and approved by the Vice Chancellor.

#### **10. Supervisor/Associate Supervisor/Joint Supervisor:**

The eligibility criteria shall be

10.1. Only a full time regular Professor, Associate or Assistant Professor of this University or its affiliated colleges can guide Ph. D scholars. The external supervisors are not allowed.

10.2. For interdisciplinary areas of research, Associate or Joint Supervisor can be allowed from other university/institutions with the approval of the Research Advisory Committee.

10.3. Professor with at least five (5) research publications (accepted/published) in refereed UGC approved journals and Associate/Assistant Professor with a Ph.D. degree and at least two (2) research publications (accepted/published) in refereed UGC approved journals may be recognized as Research Supervisor.

10.4. The affiliated institute of Research Supervisor must run PG programme in the particular discipline in which Research Supervisor shall intend to supervise his/her research scholar.

10.5. The allocation of Research Supervisor for a selected research scholar shall be decided by the concerned Ph. D committee depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/*viva voce* of enrolment.

10.6. In case of relocation of an Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/ supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institute for the part of research.