

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL



**Information Brochure (Rolling advt.)
Ph. D Program Admission 2023**

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) program under the University in 42 disciplines as listed below in various emerging areas. The applicants who have cleared UGC-NET (including JRF)/UGC-CSIR NET (including JRF)/SLET/GATE/teacher fellowship holder or have passed M.Phil. program or passed the M.Phil./M.E/M. Tech./M.D/M. Pharm or equivalent examinations can apply directly. Selection of these candidates will be determined on basis of their performance in the Interview. The RET-qualified candidates are also required to submit it.

S. No.	Disciplines	Code
1.	Applied Chemistry	ACH
2.	Architecture	ART
3.	Artificial Intelligence	AIN
4.	Applied Mathematics	AMT
5.	Applied Physics	APH
6.	Applied Psychology	APS
7.	Business and Data Analytics	BDA
8.	Bioinformatics	BIF
9.	Biomedical Engineering	BME
10.	Biotechnology	BTE
11.	Chemical Engineering	CHE
12.	Chemistry	CHY
13.	Civil Engineering	CIE
14.	Ceramic Technology	CRT
15.	Computer Science & Engineering	CSE
16.	Cyber Security	CYS
17.	Data Science	DSC
18.	Electronics & Communication Engineering	ECE
19.	Electrical Engineering	ELE
20.	Environmental Management	ENM
21.	Energy Studies	ENS
22.	Environmental Science	EVS
23.	Forensic Science	FRS
24.	Food Technology	FTE
25.	Geoinformatics	GIF
26.	Hotel and Hospitality Management	HHM
27.	Healthcare Technology and Management	HTM
28.	Industrial Engineering & Management	IEM
29.	Information Technology	ITC
30.	Law	LAW
31.	Leather Technology	LTE
32.	Management Science	MNS

33	Mechanical & Production Engineering	MPE
34.	Media Science	MSC
35.	Material Science and Engineering	MSE
36.	Mathematics	MTH
37.	Nano Science and Technology	NST
38.	Physics	PHY
39.	Pharmaceutical Technology	PTE
40.	Robotics and Automation Technology	RAT
41.	Statistics	STS
42.	Textile Technology	TTE
43.	Travel and Tourism Management	TTM

1. Eligibility criteria for admission:

Candidates seeking admission to the Ph.D. program under the university must have minimum 55% marks or an equivalent CGPA in the qualifying Master's degree examination like M.Phil./M. E/M. Tech./M. D/M. Pharm or equivalent examinations.

Note:

- Candidates belonging to SC/ST/OBC (non-creamy layer)/Differently-abled categories shall have minimum 45% marks or an equivalent CGPA.
- A relaxation of 5% of marks, from 55% to 50%, may be allowed to the candidates, who 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 marks.

2. Selection of candidate:

The selection of a candidate shall be based on the performance in the interview conducted by the subject specific PhD Committees.

3. Fee structure:

- a) Application fee- Rs 500/-
- b) Enrolment interview fee- Rs 2,000/-
- c) PhD Program admission fee- Rs 6,000/-
- d) PhD thesis submission fee- Rs 19,500/-

4. Important dates:

- a) Last date for submission of online application: Open throughout the year.
- b) Enrolment interview date- Shall be informed through email in regular intervals.

5. Instructions for filling up the Application form

- a) At the end of the document all payment details provided application fee of Rs 500/-.
- b) After payment of application fee, apply online at <https://phd.makautwb.ac.in/> as per your eligibility for the Enrolment interview. Please read the instructions carefully to fill the correct application form.
- c) Discipline: Choose from the table given above.
- d) Proposed title of Research: The title should be concise and specific to the proposed work.
- e) Upload Plan of Work in the given format (Annexure 1)
- f) If employed, upload the scanned copy of NOC.
- g) Supervisor (s) details: Check the University website for the availability of seats in the Supervisor's lab.
- h) Qualifications: Mention the highest degree first in a descending order.
- i) GATE/NET/SLET/Equivalent: Mention the details
- j) Fee details: Mention the reference number of online fee payment.

6. Guidelines for the Ph. D. Program:

- a) The shortlisted candidates have to pay the Enrolment interview fee of Rs 2,000/- through online mode.
- b) The list of selected candidates in the interview shall be notified on the University website.
- c) The candidates will be given a duration of about one month to submit the PhD admission fee of Rs 6,000/- and hardcopy of all required documents to the PhD Cell, MAKAUT, WB. The University will issue an Enrolment Certificate after submission of fee and necessary documents.
- d) The enrolled PhD scholars in consultation with their Supervisor(s) must submit the list of subjects selected for the mandatory course work. The detailed format and instructions can be obtained from the PhD Cell. The coursework should be completed within two years from the date of enrolment in the PhD Program. The course work can be completed through online mode.
- e) Submit all the relevant documents and certificates of the courses completed to the PhD Cell. The University shall issue a course work completion certificate.
- f) On successful completion of the coursework, the PhD scholar shall be registered and a Registration Certificate will be issued by the University.
- g) The supervisor shall arrange a meeting of the Research Advisory Committee (RAC) every six months to assess the research progress of the PhD scholar and report must be submitted to the PhD Cell.
- h) Duration of the Program: Minimum duration of three years, including course work and a maximum of six years. The women candidates and persons with disability (more than 40% disability) may be

allowed a relaxation of two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. for up to 240 days.

- i) The PhD scholar can submit the PhD thesis Synopsis on satisfactory completion of the research work and publication of at least one research paper in UGC-CARE listed journals and two conference presentations.
- j) After approval of the PhD Synopsis, the softcopy of PhD thesis manuscript needs to be submitted to the Plagiarism Cell for check. The Plagiarism cell will issue a certificate on similarity index at or below 10%.
- k) The PhD thesis can be submitted to the PhD Cell after paying the fee of Rs 19,500/- along with documents required by the University.
- l) The PhD Viva voce examination shall be conducted on receiving favourable recommendations from the external thesis examiners.

7. Documents to be submitted:

- a) Print out of filled application form.
- b) Self-attested copy of all Mark sheets and degree certificates mentioned in the application form.
- c) Self-attested copy of GATE/NET/SLET or relevant certificate for exemption of Entrance Test.
- d) Summary of the proposed work consisting of introduction, hypothesis and expected outcome (word limits 500 words)
- e) One copy of **Plan of Work** duly signed by the Supervisor(s) with Seal. Please submit the Plan of Work in the given format (Annexure 1). Candidate also sign the Plan of work.
- f) No objection certificate from employer in original along with Photo copy of the same, in case of employed applicant.
- g) 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
- h) Supervisor's letter in case the research work requires utilization of facilities outside the jurisdiction of MAKAUT, WB.
- i) Submit RAC list (Annexure 2) and Supervisor Undertaking (Annexure 3).
- j) Send at the following address- The Convener, PhD Cell, Maulana Abul Kalam Azad University of Technology, West Bengal, Simhat, Haringhata, NH-12, Nadia, 741249.

General Informations

8. Course Work:

- a) 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.
- b) A research scholar has to complete two compulsory courses- (1) Research Methodology (RM)- 3 credits and (2) Research and Publication Ethics (RPE)- 2 credits. 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 earned.
- c) A research scholar has to complete at least two (2) courses as Elective I and Elective II through MOOCs and earn at least six (6) credit points (3 credit each paper) for elective papers.
- d) Research Supervisors may guide the research scholar to choose courses (on elective papers) available in MOOCs in close conformity to the research topic of the scholar.
- e) A Ph.D. scholar has to obtain a minimum of 55% of marks or an equivalent grade (CGPA) in the course work in order to be eligible for PhD Registration.
- f) The candidate shall submit the certificates showing the credit points earn through MOOCs to the PhD Cell.
- g) Course work completion certificate will be provided to the candidate from the University after satisfying all the condition mentioned above.

9. Publication and Seminar/Conferences:

To obtain Ph. D degree from this University,

- a) Candidate shall publish at least one (1) research article as 1st author in a refereed UGC -CARE listed journals based on his/her Ph. D work.
- b) Candidate shall present at least two papers based on his/her Ph. D work in National/ International seminar or conference.

10. Research Advisory Committee:

A Research Advisory Committee (RAC) needs to be constituted by the Supervisor for the Ph.D. scholar. This Committee shall consist of minimum four (4) members and details as mentioned in Annexure 2.

11. For further information, please contact- The PhD Cell, Maulana Abul Kalam Azad University of Technology, West Bengal, Simhat, Haringhata, NH-12, Nadia, 741249. Email- phd.cell@makautwb.ac.in;
Webpage- <https://phd.makautwb.ac.in/>

Annexure 1

FORMAT FOR PLAN OF WORK

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

1. Cover page: Title of the Research Proposal/Thesis
Submitted by: Name of the Candidate
Qualification: Degree and Awarding Institute
Supervisor: Name of the Supervisor, Designation and Institute
2. Introduction (within 150 words)
3. Brief Literature Review and Knowledge Gap (within 500 words)
4. Objectives of the Proposed PhD Research (5-6 objectives, bullet points)
5. Methodology – Experimental Setup, Experimental Procedure including Analytical Methods, if any (within 500 words).
6. Significance and Novelty of the Proposed Research (within 100 words)
7. Conclusion (within 50 words)
8. Latest References (not more than 10)

Signature of the Supervisor with date
Designation and Institute

Signature of the Candidate with date

Annexure 2

Research Advisory Committee of Ph D Scholar of MAKAUT, WB

I, Prof/Dr agree to supervise the Ph D thesis of
Mr/Ms..... The title of the proposed thesis is
.....
.....

I propose the following scientists as members of his/her RAC (**Note:** the members must be knowledgeable in the proposed area of research; choose any member as Chairman of RAC other than the supervisor/co-supervisor).

1. Dr..... (Supervisor, Convener)
Designation.....
Area of Specialization.....
Office Address.....
.....
Tel.....
Email ID.....
2. Dr..... (Co-supervisor, if any)
Designation.....
Area of Specialization.....
Office Address.....
.....
Tel.....
Email ID.....
3. Dr..... (External Expert from outside the College)
Designation.....
Area of Specialization.....
Office Address.....
.....
Tel.....
Email ID.....
4. Dr..... (Expert from the college)
Designation.....
Area of Specialization.....
Office Address.....
.....
Tel.....
Email ID.....
5. Dr..... (Expert from the college)
Designation.....
Area of Specialization.....
Office Address.....
.....
Tel.....
Email ID.....

Signature of Supervisor with date and seal

Annexure-3

Undertaking by Supervisor of Ph D Thesis of MAKAUT, WB

I, Prof/Dr....., supervisor of the proposed Ph D thesis entitled“
.....” by Mr/Mshereby undertake that the following facilities
exist in my college/institute to take care of the requirements of the thesis work:

1. Equipment (please list the major equipment available):.....
.....
.....

2. Lab General Facilities:
.....
.....

3. Library Facilities:.....
4. Whether Plagiarism check software available:.....

Signature of Supervisor with date and seal

Verified by Principal/Head of the Institution

(Signature and seal)

PAYMENT DETAILS INSTRUCTION FOR PH.D. APPLICATION
(ENROLLMENT INTERVIEW)

Please submit the Ph.D. Application fees (Enrollment Interview) through online banking (Gpay / Phonepay/ Paytm / Net Banking / others) of Rs. 500/- (Five Hundred only) to the University Bank account as –

HDFC Bank

Account Name : MAKAUT WB

Account Number : 50100310391442

Account Branch : KALYANI – WEST BENGAL

IFSC : HDFC0000320

Address : B7/40 & B7/41 SOUTH,
CENTRAL AVENUE WEST,
CENTRAL PARK, NADIA
KALYANI- 741235
WEST BENGAL0o

After payment of application fee you have to apply online at <https://phd.makautwb.ac.in/> by creating login id then as per your eligibility for the Direct Enrollment Interview, Upload Plan of Work, Rs 500/- fee payment receipt (FORMAT: Doc/ PDF / Image/ JPEG) and one combined file with Highest Qualification Mark Sheet , Certificate, NET or GATE Certificate (if any), Caste Certificate (if any) (FORMAT: Doc / PDF).