

# FAQs for the M.Sc. (MACS) Programme

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## 1. What is the eligibility for the Programme?

Eligibility for the programme is a Mathematics major/honours degree (It could be B.A. or B.Sc.) with 50% aggregate.

or

A B.A./B.Sc degree in which the students should have studied three subjects with **equal weightage** with Mathematics as one of the subjects with an overall aggregate of 50% and 55% in Mathematics courses. This provision is for the students from those states/Universities who have a general B.A. or B.Sc degree. (Note that, in such universities, the students are eligible for admission to postgraduate courses in all the three subjects they have studied.) **However, preference is for the first category students and if seats remain vacant after admitting them, students of the second category will be admitted.**

**No Physics, Chemistry or any other honours or major students will be admitted even if they have studied Mathematics as one of the subjects.**

## **2. I have studied Mathematics as one of the subjects in B.Sc./BCA/MCA/ I have an engineering degree. Why am I not eligible?**

The Mathematics taught in all the above cases is tailored for a particular purpose and does not include all the topics covered in a Mathematics honours course. For example, rings and fields, abstract vector spaces, inner product spaces, topics in group theory like normal subgroups, group homomorphisms are either not covered at all or covered in a superficial manner. The M.Sc. (MACS) is primarily a M.Sc. degree in Mathematics and it assumes the honours level knowledge of Mathematics.

## **3. How do I apply for the programme?**

You have to download the common prospectus from the IGNOU website, fill in the form in this and submit it with the attested copies of the relevant documents and a demand draft for Rs.400 towards registration fee. **You have to submit the application only in the seven RCs listed in the answer to question 7. All these rates are subject to change. Please confirm with the concerned regional centre or check the IGNOU website for the latest rates.**

### ***3.1 When do I apply?***

This programme is available only in January session. Advertisement usually appears by the last week of September or later. Apply after the advertisement appears.

### ***3.2 Where is the application form?***

See answer to question 3.

### ***3.3 What is the basis for admission? Is there an entrance test?***

The admission is based on merit and there is no entrance test.

### ***3.4 Do I have to submit the fee with the application form?***

No, you have to just pay the registration fee of Rs.400. After you receive the letter from Regional Centre offering you admission to the programme, you have to pay the fees for the first semester.

### **3.5 Can I apply online?**

This provision is not available for the programme because admission is not automatic and a merit list has to be prepared.

### **3.6 How will I come to know whether I have been selected?**

You will get a letter or some other communication from the regional centre concerned informing you that you have been selected. You can then pay the fee for the first semester.

## **4. What is the fee for the programme?**

It is now Rs.6,600 per semester. But this is subject to change. Check with the Regional Centre concerned.

## **5. Are the practicals compulsory?**

Yes, it is **compulsory** to complete all the prescribed practical sessions. The student has to prepare file in which, for each session, the student has to give the source code of the programme and algorithm in pseudo code. The student has to show the programme to the counsellor and run it before the counsellor. The counsellor may ask questions to check the understanding of the student and he/she may ask the student to modify/improve the programme. The counsellor will sign the file if he/she is satisfied with the programme. **The student will not be allowed to appear for the practical examination of the course unless he/she completes at least 70% of the sessions that are prescribed for the course.** A course with a practical component is not complete without clearing the practical examination.

## **6. Can I appear for the term end examination anywhere in India?**

You can appear for the term end theory examination anywhere in India at any of the IGNOU centres where examinations are being held but you can appear for your practical exam only in the study centre to which you are attached.

## **7. Where are the centers for the programme?**

This course is offered in Delhi, Ranchi, Kolkata, Chennai, Cochin, Pune and Jabalpur only. The details of the centres are given in the table below.

Sl. No.	RC Code / Name	Region	Programme Study Centre Code	Programme Study Centre Address	Regional Centre
1.	<b>14 Cochin</b>	<b>South</b>	<b>1478-P</b>	St. Paul's College Dept. of Mathematics Kalamassery Ernakulam Kerala-683 503	Regional Director IGNOU Regional Centre Kaloor Cochin – 682 017 Kerala Ph. No.:0484-2340203/2348189 2330891
2.	<b>25 Chennai</b>	<b>South</b>	<b>2578</b>	Guru Nanak College Velachery Road Chennai <b>Tamilnadu-600 042</b>	The Regional Director,. IGNOU Regional Centre, Periyar Thidal 84/1, EVK Sampath Sakai, Vepery, Chennai - 600 007.
3.	<b>39 Noida</b>	<b>North</b>	<b>07107</b>	Maharaja Agrasen College Vashundhara Enclave Delhi – 110 096	Regional Director IGNOU Regional Centre C-53, Sector – 62 Institutional Area Noida – 201 305 Uttar Pradesh Ph. No.:0120-2405012/2405014
4.	<b>32 Ranchi</b>	<b>East</b>	<b>3645-P</b>	Marwari College Dept. of Mathematics Lake Road, Hindpiri Ranchi Jharkhand-834 001	Regional Director IGNOU Regional Centre 457/A, Ashok Nagar Ranchi – 834 022 Jharkhand Ph. No.: 0651-2244688/2244699 2244677
5.	<b>28 Kolkata</b>	<b>East</b>	<b>2810</b>	Maulana Azad College 8 Dharamtala, R A Kidwai Road Kolkata <b>West Bengal-700 012</b>	Regional Director IGNOU Regional Centre Bikash Bhawan, 4 <sup>th</sup> Floor North Block, Salt Lake Bidhan Nagar Kolkata – 700 091 West Bengal Ph. No.:033-23349850/23592719
6.	<b>15 Jabalpur</b>	<b>West</b>	<b>15109-P</b>	R. D. University Dept. of Mathematics and Computer Science Saraswati Vihar, Pachpedi Jabalpur <b>Madhya Pradesh-482 001</b>	Regional Director IGNOU Regional Centre 2 <sup>nd</sup> Floor, Rajshekhhar Bhavan Rani Durgavati Vishvavidyalaya Campus, Pachpedhi Jabalpur – 482 001 Madhya Pradesh Ph. No.: 0761-2600411/2609896 2609902
7.	<b>16 Pune</b>	<b>West</b>	<b>1675-P</b>	University of Pune Dept. of Mathematics Ganeshkhind Road Pune Maharashtra-411 007	Regional Director IGNOU Regional Centre 1 <sup>st</sup> Floor, MSFC Building 270, Senapati Bapat Road Pune – 411 016 Maharashtra Ph. No.:020-25671867/25651321

## **8. Why is there no centre for the programme where I live?**

Because of the specialized nature of the courses in the programme, the programme has been started only in places where IGNOU could provide resources for the conduct of theory and practical counselling.

## **9. Is the degree recognized?**

IGNOU Degrees/Diplomas/Certificates are recognised by all member universities of the Association of Indian Universities (AIU) and are at par with Degrees/Diplomas/Certificates of all Indian Universities/ Institutions, as per UGC and AIU guidelines. For more information you may refer the UGC website.

## **10. There is a programme centre 300 miles away from my place. Can I enroll for the programme there?**

It is not advisable to do so. The programme is demanding in nature and you may need to attend the counselling sessions at the centre, particularly the practical counselling sessions which are compulsory. Note that there are on an average 15 computer based practical sessions per semester. It is compulsory to complete them. See answer to question 6.

## **11. Can I appear for UGC-CSIR net for the Mathematical Sciences after completing M.Sc. (MACS)?**

Yes, you can. The programme is basically a M.Sc. (Mathematics) programme and it is comparable to other M.Sc. programmes in the country.

## **12. Can you give me the list of courses offered in M.Sc(MACS) Programme?**

Here is a semester-wise list of courses (Courses marked with \* have a practical component): All the courses are compulsory.

### **First Semester**

<b>S. No</b>	<b>Course Code</b>	<b>Title of the Course</b>
1.	MMT-001*	Programming & Data Structures
2.	MMT-002	Linear Algebra
3.	MMT-004	Real Analysis
4.	MMT-005	Complex Analysis
5.	MMT-007*	Differential Equations and Numerical Solutions

### Second Semester

S. No	Course Code	Title of the Course
6.	MMT-003	Algebra
7.	MMT-006	Functional Analysis
8.	MMT-008*	Probability and Statistics

### Third Semester

S. No	Course Code	Title of the Course
9.	MMT-009 <sup>§</sup>	Mathematical Modelling
10.	MMTE-001*	Graph Theory
11.	MMTE-002	Design & Analysis of Algorithms
12.	MMTE-003*	Pattern Recognition & Image Processing
13.	MMTE-004*	Computer Graphics

§ There is no term end practical examination for MMT-009. The student has to submit the file as a part of continuous assessment.

### Fourth Semester

S. No	Course Code	Title of the Course
14.	MMTE-005*	Coding Theory
15.	MMTE-006*	Cryptography
16.	MMTE-007*	Soft Computing & its Applications
17.	MMTP-001	Project