30 January 2024

JIIT NOIDA

Master of Science (MSc) Programs

Admission Procedure and Schedule - 2024

Jaypee Institute of Information Technology Noida, established in the year 2001, is an AICTE and UGC approved, NAAC (MHRD) accredited and NIRF (MHRD) ranked Deemed University. Currently several undergraduate, post graduate and Ph.D. programs in Engineering, Sciences, Humanities and Management are running in the institute. In a span of 19 years of its standing, because of its state-of-the-art infrastructure, academic programs and placements, JIIT Noida has become a highly acclaimed, reputed and sought for institute among the education seekers.

The 2-year (4-semester) M.Sc. programs in different disciplines are designed with an aim to offer opportunity to the bright undergraduate science students for their career in higher education and research and development.

Interested MSc students across all disciplines can opt for additional Certificate Course in Data Analytics, at no extra fees.

1. About the Programs:

I. M. Sc. (Physics)

The department of Physics and Materials Science and Engineering (PMSE) offers two-year M. Sc. program in Physics. Established in the year 2001, the department is engaged in undergraduate and postgraduate teaching and research. The department has 25 faculty members with rich teaching and research experience in diverse areas of Physics and Materials Science. Besides undergraduate and postgraduate teaching, the department also offers Ph.D. program in Physics and Materials Science & Engineering and has produced 38 Ph.D. students and has published more than 500 research papers in high-impact international journals and conferences. The department has well-equipped curricular labs for UG and PG programs and research labs with modern research equipment. There are several funded research projects running (more than 380 Lakhs) in the department. The M.Sc. students who graduated from the department have been successful in getting Ph.D. positions in prestigious international and national universities and jobs in Industries. In order to maintain high standards of teaching and research, the department regularly organizes national/ international workshops and conferences.

The course curriculum of M. Sc. Physics is designed with an aim to provide knowledge and skills in physics suitable for a professional career in R&D or doctoral studies in Physics/ Applied Physics, or Engineering. The course curriculum follows choice-based credit system (CBCS) with the option of advanced study and training in two specializations: **Condensed Matter Physics** and **Applied Optics**. The curriculum consists of **core courses (theory and labs)**, **elective courses** and **dissertation/ project**.

For details about the department, curricula, course content, etc., click: http://www.jiit.ac.in/department-physics-and-materials-science-and-engineering

II. M. Sc. (Mathematics)

M. Sc. in Mathematics program is offered by the department Mathematics. The Department of Mathematics established in the year 2001 strives to make an impact on various disciplines of science and technology on the broader society through internationally recognized research in pure and applied mathematics and dedicated teaching. The department has started Master in Science (M.Sc.) programs in Mathematics in 2019 with an aim to offer opportunity to the bright undergraduate science students for their career in higher education. Besides catering to the basic needs of the various B.Tech./ M.Tech./ Ph.D. programs of the Institute, the faculty of the department has been actively involved in the areas pertaining to various research groups of the department with about 500 research publications in various reputed indexed international journals and conferences. Apart from this, the department organizes

seminars, Faculty Development Programs, workshops and international conferences funded by reputed government agencies like CSIR, SERB and DRDO on a regular basis.

The M.Sc. program in Mathematics is carefully designed to convey essential knowledge in Mathematics and to provide substantial opportunities for pursuing excellence in all major areas of pure and applied mathematics. The objective of this program is to develop mathematical attitude in students, nurture their interests towards mathematics and motivate them for research in mathematical sciences. It consists of a broad based curriculum which reflects an extensive understanding of the different aspects of mathematics and its applications. The wide range of application oriented courses is so designed that after the completion of the course, the students would be well equipped to go to industries or to join academics.

For details about the department, curricula, course content, etc., click: http://www.jiit.ac.in/mathematics-0

III. M. Sc. (Microbiology)

M. Sc. in Microbiology program is offered by the Department of Biotechnology. The Department of Biotechnology at JIIT, NOIDA, established in 2002, remains committed to provide research-informed teaching and learning, and vibrant R & D environment. Faculty with rich research exposure in academia and industry both in India and abroad contributes to the department academic core. The department has 24 faculty members with rich teaching and research experience in diverse areas of Biotechnology: Microbiology, Biochemistry, Molecular Biology, Environmental Sciences, Bioinformatics, etc. The department also offers B. Tech, Integrated B.Tech-M Tech, M. Tech. and Ph.D. programs in Biotechnology.

The research emphasis is reflected in the active doctoral program (more than 60 scholars are pursuing PhD and approximately 40 Scholars have completed PhD), publications in international/national journals, and sponsored research projects totaling approximately Rs. 16 Cr from premier national funding agencies namely, the Department of Biotechnology (DBT), the Department of Science and Technology (DST), All India Council for Technical Education (AICTE), Indian Council for Medical Research (ICMR), UPCST and Department of AYUSH. Interaction with leading scientists from academia and industry through invited lectures, workshops and conferences ensures all-round development of the students. Our students continue to secure positions in graduate schools for MS/Ph.D. at universities of international/National repute such as Max Planck Institutes, John Hopkins, Georgia Tech, Keck Graduate Institute, Penn State, IITs etc. among others. Many students have been selected in core biotechnology firms Panacea Biotech, Cadilla Biotech, Ranbaxy, and Premas Biotech Ltd.

The course curriculum of M. Sc. Microbiology is designed with an aim to provide knowledge and skills in the field of Microbiology catering to Medicine, Pharmacy, Agriculture, Food and Dairy Industry, Environmental and Nanotechnology, IPR, etc., emphasizing on the latest advances in the field. An optimum blend of theory, labs and dissertation/hands on project work would open diverse career opportunities in Hospitals, Diagnostics, Pharma and Biopharma R&D's, Clinical laboratories, Food Industry, Food Safety and Quality Control as well as in core biotechnology industries.

For details about the department, curricula, course content, etc., click http://www.jiit.ac.in/biotechnology

IV. M.Sc. (Environmental Biotechnology)

Environmental awareness amongst the general public is increasing with each passing day and people are genuinely concerned about the deteriorating environmental quality. Biotechnology involves the use of living systems for developing products for the benefit of mankind. It is a broad area encompassing applications in various fields such as medicine, food, and environment. Environmental biotechnology specifically focuses on the application of biotechnology-based processes for providing solutions to halt or arrest environmental damage. Emerging concerns regarding global environmental changes requires an urgent necessity to address the issues arising from pollution, climate change, damage to natural ecosystems and biodiversity, and food security.

Biotechnology-based solutions can be a sustainable and eco-friendly approach for finding cost-effective measures. Microorganisms and plants are being used for bioremediation of environmental pollutants and commercially available technologies have proven to be safe and effective. Phyto-remediation is also emerging as a promising approach. In contrast to available conventional technologies, biotechnology-based strategies for the environment can be very successfully implemented, keeping environmental laws and regulations in mind.

The two-year M.Sc. course will have courses pertaining to basics-to-application of existing and emerging biotechnological tools for the process development and reducing or mitigating the impact of environmental pollutants.

The course curriculum of M. Sc. Environmental Biotechnology is designed with an aim to provide knowledge and skills catering to many industries across the spectrum, requiring adherence to waste management. The course will prepare students for a career in industry, academia and entrepreneurship, both in public and private sectors.

For details about the department, curricula, course content, etc., click http://www.jiit.ac.in/biotechnology

V. M. Sc. (Economics)

The aim of the programme is to provide the students the necessary analytical and quantitative skills and knowledge for demanding careers in top positions in the field of economics. The programme is interdisciplinary in nature. It gives students strong foundations in contemporary economic theories, methods of econometric analysis, mathematics and computer programming that will help them analyze and forecast various processes associated with economics.

On completion of the programme, the students would be able to pursue an academic career in Economics or take up responsible positions in various private and public sector organizations. The programme will provide an edge for students those who are aiming to make a career in Analytics and Credit Scoring sector most notably in Banking, Insurance, scientific research and auditing & consulting firms.

For details about the department, curricula, course content, etc., click http://www.jiit.ac.in/humanities-and-social-science

2. Minimum Eligibility Criteria for Admission

(Candidates must secure pass grade in all subjects in their qualifying exam at the time of registration)

PROGRAM OF STUDY	NO. OF SEATS	ELIGIBILITY CRITERIA
M. Sc. (Physics)	15	B.Sc. (Hons.)/ B.Sc. under 10+2+3 pattern securing minimum of 50% marks (45% for SC/ST) or equivalent grade point on a 10 point scale in the aggregate in Science subjects (considering all the three years of B.Sc. course) or B. Tech in appropriate branch. Subject in which admission is sought must be the Hons. Subject at B.Sc. (Hons.) Level / a subject studied in all three years at graduate level or B. Tech (4 years).
M. Sc. (Mathematics)	15	BA/ B. Tech (4 years)/ B.Sc. (Gen. OR Hons.) under 10+2+3 pattern securing minimum of 50% marks (45% for SC/ST) or equivalent grade point on a 10-point scale in the aggregate and Mathematics as one of the subjects

		in all the three years at graduation level or four years at B.Tech. level
M. Sc. (Microbiology)	45	B.Sc. (General) or B.Sc. (Hons) or B. Tech in any branch of Life Sciences such as Biotechnology/ Biochemical Engineering/ Industrial Biotechnology/ Industrial Microbiology/ Bioengineering/ Food Technology etc or an equivalent Undergraduate Degree in any branch of Life Sciences/ Medical Sciences/any branch of Biology under 10+2+3 pattern securing minimum 50% marks (45% for SC/ST) or equivalent grade point on a 10-point scale in the aggregate in Science subjects (considering all the three years of B.Sc. course)
M. Sc. (Environmental Biotechnology)	15	
M. Sc. (Economics)	15	Bachelor's degree (3-years/ Hons.) or 4 years B. Tech degree in any subject securing the minimum of 50% marks (45% for SC/ST) or equivalent grade point on a 10 point scale in the aggregate, through the examinations conducted by a university/ autonomous institution or possesses such qualifications as recognized by the concerned university as equivalent to an undergraduate degree

3. Admission Procedure

Candidates appearing in the final year examination of the qualifying degree may also apply. They will be required to submit mark sheet of the qualifying degree on or before the date of registration. The admission procedure for candidates fulfilling minimum eligibility criteria is;

(a) Direct admission to candidates with CGPA ≥ 7.5 or equivalent in their qualifying degree.

Or

(b) Admission on the basis of marks obtained in entrance test JIIT-PGET. The test will be conducted in online and offline modes. The MCQ based test will be of 50 marks of one-hour duration.

Or

(c) Admission on the basis of score obtained in CUET-PG conducted by National Testing Agency (NTA).

(d) Applicants qualifying the JIIT-PGET or CUET-PG in the concerned discipline of M. Sc. Programme will be considered for the admission as per merit.

4. Scholarship

(a) Scholarship upto 50% waiver in Tuition Fee will be provided to 10 meritorious candidates per dept, as follows:

CGPA or equivalent marks in Qualifying degree/ SGPA in MSc semester	Scholarship
7.50 – 7.99	20%
8.00 – 8.49	30%
8.50 – 8.99	40%
≥9.00	50%

(b) Applicable scholarship to be offered to candidates meeting above requirement in final marksheet of qualifying degree.

(c) If appearing in the final year examination of the qualifying degree, then provisional scholarship will be offered based on the result of pre-final semester/year, subject to obtaining the CGPA as per table in para 4 (a) above in the final marksheet of qualifying degree. The final marksheet to be submitted at the time of registration/ 30 Sep 2024.

(d) For subsequent semesters scholarship will be admissible, subject to meeting the minimum SGPA criteria and other conditions as laid down in the M.Sc regulations.

5. **Duration of the Program:** 2 years (4 semesters)

6. **Fees Structure:**

Fee (In Rs)	**1st year**		**2nd year**	
	Sem-I	Sem-II	Sem-III	Sem-IV
Tuition Fee	43550	43550	45750	45750

- Caution Money - Rs. 20,000 (*One time, refundable after completion of the Program)*
- Admission Charges - Rs. 10,000 (*One time, non-refundable)*
- JYC Charge – Rs. 700 (Annual charges)

7. **Hostel**: Hostel Charges are Rs. 1,00,000/- per semester. Hostel seats are limited and will be allotted on first come first serve basis.

8. **Important Dates:**

Last Date for Applying	31 May 2024
PG Entrance Test (JIIT-PGET)	
Round-1 (applications received upto 31 March)	13 April 2024
Round-2 (applications received upto 30 April)	11 May 2024
Round-3 (applications received in May 2024)	08 June 2024
Admission offer letter will be issued to selected candidates by email within seven days.	
Additional rounds of admission will be based on vacancies / applications	

9. **Medium of Instruction:** It is informed that the medium of instruction at JIIT is English.

10. **Syllabus & Format for PGET –** Please see website

11. **How to Apply**

(i) Online Submission of Application by visiting the link: www.getadmissions.com **OR**

(ii) Duly filled application downloaded from the website www.jiit.ac.in or obtained from Admission Cell on payment of application fee of Rs. 500/- or Demand Draft in favor of "Jaypee Institute of Information Technology", payable at Noida/ Delhi may be deposited by hand or sent by post at below address:

The Registrar
MSc Admission
Jaypee Institute of Information Technology
A-10, Sector-62, Noida 201 309, U.P.

12. **For queries, write to:** admission@jiit.ac.in

OR Contact us on: Mob - 7428630600/ 800, Tel: 0120 - 2594300/ 400