JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY NOIDA

Procedure and schedules of admission to Master of Science (M. Sc.) programs

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.

About the Programs:

1. M. Sc. (Physics)

M. Sc. in Physics program is offered by the department of Physics and Materials Science and Engineering (PMSE). Established in the year 2001, department is engaged in teaching and research. The department has 22 faculty members with rich teaching and research experience in diverse areas of Physics and Materials Science. Besides undergraduate and post graduate teaching, the department also offers Ph.D. program in Physics and Materials Science and Engineering and has produced 33 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 in the department. The Ph.D. students graduated from the department have been successful in getting teaching positions in universities and colleges and prestigious international and national post-doctoral fellowship such as Japanese Society of Promotion of Science (JSPS, Japan), Kothari Fellowship of DST, and National Post-doctoral Fellowship of DST. 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

2. 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

3. 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 22 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 totalling approximately Rs. 10 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) 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

4. 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

5. 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

Other Relevant Details including fee and important dates:

Duration of the Program: 2 years (4 semesters)

Number of Seats: 30 in each program

Tuition Fee: Rs 30,000/- per semester in first year and Rs. 40,000/- per semester in second year.

Hostel Fee: Rs. 75000/- per semester including mess charges. Seats are limited in the hostels and will be allotted on first come first served basis.

(*Note:* Students desirous of a hostel seat will be considered for allotment as per availability of vacant seats. The seats will be allotted in order of merit. Request for hostel be sent by email at admission@jiit.ac.in. The instructions for hostel occupation and payment of hostel charges will be communicated to the students to whom the hostel seat is allotted by following the orders/ directions of Central/ State Govt).

Minimum Eligibility Criteria for Admission

PROGRAM OF STUDY	NO. OF SEATS*	ELIGIBILITY CRITERIA
M. Sc. (Physics)		B.Sc. (Hons.)/ B.Sc. under 10+2+3 pattern securing minimum of 50% marks or equivalent grade point on a 10 point scale in the aggregate in Science subjects (considering all the three years of B.Sc. course). 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.
M. Sc. (Mathematics)		
M. Sc. (Microbiology)		B.Sc. (General) or B.Sc. (Hons) or an equivalent Undergraduate Degree in any branch of Life Sciences/ Medical Sciences/ any branch of Biology under 10+2+3 pattern securing the minimum of 50% marks 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		
M. Sc. (Economics)		Bachelor's degree (3-years/ Hons.) in Economics/ Mathematics/ Statistics at the undergraduate level securing the minimum of 50% marks or equivalent grade point on a 10 point scale in the aggregate.

ADMISSION PROCEDURE

Candidates fulfilling minimum eligibility criteria given above will be admitted to M. Sc. programmes on the basis of merit based on the score of PGET-2021 conducted by the Institute. Applicants qualifying the PGET-2021 in the concerned discipline of M. Sc. Programme will be considered for the admission.

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.

Note: Minimum student strength condition will apply to run a programme. Candidates not scoring the minimum cut off marks, as may be decided by the admission committee, shall not be admitted irrespective of availability of vacancy.

Important Dates:

(All dates are tentative and subject to change due to delay in resumption of on-campus activities due to COVID-19)

Next Round

Last date for Application	-	25 September 2021
PG Entrance Test	-	28 September 2021

How to Apply

(i) Application for admission may be submitted online by visiting the link: www.getadmissions.com

OR

(ii) Application may be downloaded from the website www.jiit.ac.in and duly filled application along with application fee of Rs. 500/- in the form of a demand draft in favor of Jaypee Institute of Information Technology, payable at Noida/ Delhi may be submitted personally or by post.

OR

(iii) Application form may be obtained from the **Admission Cell**, JIIT, A-10, Sector-62, Noida-201 309, by paying Rs. 500/- in cash or through a Demand Draft of Rs. 500/- (Rs. Five Hundred only) made in favor of Jaypee Institute of Information Technology, payable at Noida/Delhi and duly filled application form may be submitted personally or by post.

(iv) Duly completed off-line application forms/ print out of online application must reach on or before the due date at:

The Registrar
M.Sc Admissions
Jaypee Institute of Information Technology
A-10, Sector-62, Noida 201 309

For queries, write to: admission@jiit.ac.in or registrar@jiit.ac.in

OR Contact us on: Mob - 7428630400/ 500/ 600/ 800 , Tel: 0120 - 2594179/ 303/ 400