

Offered By

Department of IT

## At a Glance

Indian Institute of Information Technology, Lucknow (IIIT Lucknow) is one of the 20 IIITs being set up by the Central Government in Public Private Partnership (PPP) mode, declared as 'Institute of National Importance' by the Act. Of Parliament, Govt. of India. The Institute is being set up with the financial contributions of MHRD, Govt. of India, Govt. of Uttar Pradesh, and U. P. Electronics Corporation Ltd. as industry partners. The mission of IIIT Lucknow is to be a unique and world class nucleating "Apex Center of Excellence" in the area of Information Technology to enhance India's Technological strength. It currently offers all the amenities, academic and non-academic to its students that can help them flourish and serve the nation with all their apprehension in the various fields of technology. IIIT Lucknow seeks to derive its strength from a linkage with sound Indian traditions of centuries past, and sets out to create knowledge-based resources in regional languages.

Department of Information Technology is the oldest running department in IIIT Lucknow from 2015. It consists of a team of highly dedicated, learned and well-qualified faculties. Department of IT also provides B.Tech and Ph.D programmes. Information Technology deals with the application of computers to solve real-world problems to facilitate businesses and create Information Systems. As the world becomes technologically advanced every day, well-trained IT professionals are needed. Courses designed by IIIT Lucknow are according to the industry requirements. The curriculum is revised regularly to keep up the future needs of the industries.

# M. Sc. (AI & ML)

## **Eligibility & Selection**

# JAM Joint Admission Test for Masters

**Students** B.A./BCA/B.S./B.Sc./B.Stat. completed /B.Math./ B.Tech/B.E. or any other equivalent degree CS/ Mechanical/Electronics/ Electrical/ Mathematics/ Statistics or any other related field as major are eligible to apply. Selection for the programme will be through Joint Admission Test for Masters (JAM). Atleast one subject of Computer programming Language-C/C++/JAVA/Python should have been passed with minimum 60% marks or completed a certificate course in any of the programming languages. Students should have working knowledge of coding in any one programming language mentioned above For further information related to admission test, syllabus, cutoff etc. will be available on the JAM website.

### **How to Apply**

CCMN
https://ccmn.admissions.nic.in/

CCMN is a centralized counseling platform for the candidates who seek admission in M.Sc./M.Tech. programmes. It is based on the JAM score of the year, in NITs, IIITs and some GFTIs (for details, please refer to the list of Participating Institutes on the website). It is a convenient platform for online counseling wherein the candidates can fill-in a single online application form and apply to all the programmes offered by the participating institutions to which they are eligible.



#### M. Sc. (AI & ML)

This two-year course has been designed to keep pace with the rapidly growing industry requirements. It intends to teach the fundamentals and applications of Artificial Intelligence & Machine Learning. Artificial Intelligence is technology that enables a machine to simulate human behavior. Machine learning is a subfield of AI which enables machine to learn from past data or experiences without being explicitly programmed.

This programme will provide high quality learning to give better competitive advantage. Major subjects covered will be-Programming, deep learning, NLP, DSA, Image & Vision processing to name a few. To provide better research oriented approach, Thesis work is introduced from 2<sup>nd</sup> sem. onwards with a healthy pool of electives choices.

This curriculum is modern & innovative which give a broader outlook on the function of the two fields. One can get bright career opportunities like- Game programmer, Robotics Scientist, Computer Scientist, Big data Scientist & User experience specialist.



# **Course Structure**

M. Sc. (AI & ML)

Minimum 80 Credits to be completed in 4 semesters for  First Semester  Computational thinking through programming (4 cr)  AI & ML with Python (4 cr)  Mathematical methods for Data Science and AI & ML (4 cr)  Probability & Statistics with Python (4 cr)  Professional Communication (3 cr)  Yoga & Fitness (1 cr)	or Degree requirement of M.Sc in AI & ML  Second Semester  Deep Learning (4 cr) Data Structures and Algorithms with Python (4 cr) Database Management System (4 cr) Image & Vision processing (4 cr) MLOps (4 cr)
<ul> <li>Natural language processing(4 cr)</li> <li>Reinforcement Learning (4 cr)</li> <li>Elective-I (4 cr)</li> <li>Elective-II (4 cr)</li> <li>Capstone Project (4 cr)</li> </ul>	• Thesis/Internship (20 cr)
Pool of Elective (will be offered as per  Information Retrieval Data mining & warehousing	<ul> <li>the availability of Faculties)</li> <li>AI Blockchain</li> <li>Distributed Systems</li> </ul>

- AI for IoT
- Data Security
- Mobile Application Development using AI/ML
- Distributed AI

- Soft Computing
- Software Engineering
- Optimization Techniques
- Tensorflow

	Seat matrix									
GEN	GEN-PwD	EWS	EWS-PwD	SC	ST	ST-PwD	SC-PwD	OBC	OBC-	Total
									PwD	
11	1	3	0	5	2	0	0	8	0	30

#### **Fee Structure**

Semester-wise	I	II	III	IV
<b>Total Fees</b>	Rs.72000	Rs.51500	Rs.53500	Rs. 51500

<sup>\*</sup> Hostel and Mess charges will be separate.



# **IIIT Lucknow**

**Department of IT** 

## **Contact:**

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