



**JIET**  
Group of Institutions

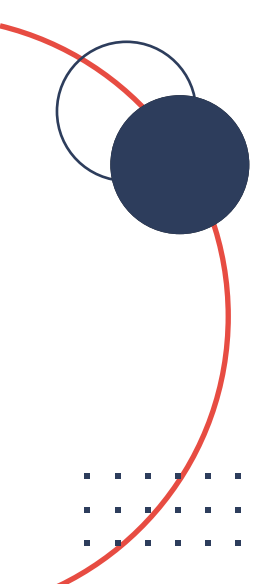
## 2 - Years M.Tech. in Data Science

In association with



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# About the Course

**A**ccelerate your career with our globally recognized M.Tech. (Data Science) in collaboration with Cipher School as our Educational Partner. This program is the perfect mixture of fundamental theory, case studies and extensive hands-on practicum. Designed to present recent graduates and qualified professionals an far-reaching Data Science educational Programme, this Post Graduate Programme is a unify of live online classes, hands-on projects, and labs, with mentorship sessions to endow with a high-engagement knowledge base experience and real-world applications to enrich essential Data Science skills. The program put forward in-depth exposure of R, Python, Machine Learning, Tableau, Natural Language Processing, and prepares you for an exciting career in Data Science.



Scan this QR code to  
see Detailed Syllabus

# The Key Features of the M.Tech. Program



Cipher Schools as our Knowledge partner



Opportunity to earn Industry- recognized IBM (Business Intelligence) certificates



20+ hands-on projects and one capstone



Limited class size for an optimal experience



300+ hours of Blended Learning



Autonomous Status  
Granted by UGC  
Only Engineering Institution in Rajasthan



Affiliated with  
Bikaner Technical University -  
The Rajasthan state Technical University



Approved by AICTE



NAAC 'A' GRADE  
Only Engineering Institution in Rajasthan



Great Alumni Support

# About Jodhpur Institute of Engineering and Technology (JIET)

**J**odhpur Institute of Engineering and Technology (JIET) is an esteemed and prestigious institution of Engineering and Management in Rajasthan, devoted to cause of promoting technical and scientific literacy and temperament in the young inquisitive minds right from its inception in 2003. The multi-disciplinary campus JIET is a trustworthy name in the Rajasthan as it provides multiple opportunities of gaining insights in professional education through the availability of resources.

The institute is recognized by AICTE, New Delhi and affiliated with Bikaner Technical University, Bikaner. It is the only engineering institution of Rajasthan having Autonomous Status by UGC, NAAC "A" Grade Accreditation, NBA Accreditation in four UG programs since 2011 (three times in a row). JIET has been Ranked first in state by the affiliating university continuously three times in a row (Session 2018-19, 2019-20 and 2020-21).



## About Cipher School

**C**ipher Schools is an online 1:1 mentor-led learning platform where a student can get assured guidance on various technologies along with 24\*7 doubt resolution support.

The Cipher Schools aims to connect the best Industry Experts to students & universities. Other than JIET, Universities like MMU, Ansal, DIT, LPU, and Chitkara University have experienced the value addition of their Industry Experts in previous years.

# Program Eligibility Criteria and Application Process

## Eligibility Criteria

For admission to M.Tech. in  
Data Science, candidates should have:

- A bachelor's degree (BE/ B.Tech.) in Computer Science and Engineering/ Information Technology / Electronics and Communication Engineering or relevant branch (As mentioned in AICTE APH 2020-21) or MCA / M.Sc. in Computer Science / IT / Cyber Security with an average of 60% or higher marks.
- Basic understanding of programming concepts and mathematics are desirable.

## Application Process

Centralised Admission for M.Tech. (CAM) is an integrated admission procedure for admission to First Year of M.Tech degree programme offered by AICTE approved institutions of Rajasthan, affiliated with state technical universities.

- Rajasthan Technical University (RTU), Kota is the organizing authority and the process is also popularly known as RTU CAM.
- The entire counselling and seat allotment process for RTU CAM is held online.
- In RTU CAM, seat allocation in M.Tech program is based on GATE score/Graduation marks.

An applicant who has B.Tech / B.E. degree in the appropriate discipline with the required minimum marks need not have appeared for GATE. However, an applicant who is seeking admission to M.Tech programme and possesses an M.Sc / MCA degree must apply with a valid GATE Score.

**Scholarship:** All the applicants who are having valid GATE score are eligible to get MHRD scholarship as per norms.

# Talk to Admission Committee

We have a dedicated admissions committee who are here to guide you in applying to the program. They are available for:

- Address questions related to the application and Programme
- Help you resolve your questions and understand the program

## Call Now

For course related information : Er Rajendra Purohit (9828564957)

For admission related information : Er. Shrutika (9799999190)

## Program Outcomes

- Students will be able to in-depth understand fundamental mathematics using Probability, Statistics and Graph Theory.
- In-depth understanding of data structure and data manipulation.
- Implementing linear / non-linear regression models with classification techniques for data analysis
- Comprehensive knowledge of supervised and unsupervised learning models using hands-on
- Perform scientific and technical computing using the SciPy package and its sub-packages
- Gain expertise in mathematical computing using the NumPy and Scikit-Learn package
- Learn to analyze data using Tableau and become proficient in building interactive dashboards
- Understand deep reinforcement learning techniques applied in Natural Language Processing



# Why Enroll in this Program?

Certified  
Data Scientists' Salary  
₹ 15-22 LACS

Data Scientists'  
Demand grew by  
417% in 2019

Data Science to Create  
2.7 Million  
New Jobs by 2020

Companies Hiring Certified  
Data Scientists

Google

Microsoft



amazon



accenture



JPMORGAN CHASE & CO.



crediwatch

quantiphi

busillgence

Tracxn

Walmart Labs

BOSCH  
Invented for life

happy

Couture

and many more ...



# Building blocks of the programme

## Foundation Programming Course

Programming is an increasingly important skill; this course will establish your proficiency in handling basic programming concepts. By the end of this program, you will understand object-oriented programming; basic programming concepts such as data types, variables, strings, loops, and functions; and software engineering concepts such as multithreading and multitasking using Python.

## Statistics Essential for Data Science

Statistics is the science of assigning a probability through the collection, classification, and analysis of data. A foundational part of Data Science, this course will enable you to define statistics and essential terms related to it, explain measures of central tendency and dispersion, and comprehend skew-ness, correlation, regression, distribution. You will be able to make data-driven predictions through statistical inference.

## R Programming for Data Science

Gain insight into the R Programming language with this introductory course. An essential programming language for data analysis, R Programming is a fundamental key to becoming a successful Data Science professional. In this course, you will learn how to write R code, learn about R's data structures, and create your own functions. After the completion of this course, you will be fully able to begin your first data analysis.



## Data Science with R

The next step to becoming a data scientist is learning R—the most in-demand open source technology. R is a powerful Data Science and analytics language, which has a steep learning curve and a very vibrant community. This is why it is quickly becoming the technology of choice for organizations who are adopting the power of analytics for competitive advantage.

## Natural Language Processing

This Natural Language Processing course will give you a detailed look at the science behind applying Machine Learning algorithms to process large amounts of natural language data. You will learn the concepts of statistical machine translation and neural models, deep semantic similarity model (DSSM), neural knowledge base embedding, deep reinforcement learning technique, neural models applied in image captioning, and visual question answering using Python's Natural Language Toolkit (NLTK).

## Data Science Projects and semester long industrial training

This Data Science projects and semester long industrial training will give you ample opportunity to implement the skills you learned throughout this Program. Through dedicated mentoring sessions, you'll learn how to solve a real-world, industry-aligned Data Science problem, from data processing and model building to reporting your business results and insights. The project is the final step in the learning path and will enable you to showcase your expertise in Data Science to future employers.



# Fee Structure

The institute charges fee as per the State Level Fee Determination Committee, Department of Technical Education, Government of Rajasthan. The interim course fee (in INR) for the students enrolling in session 2020-21 for M.Tech. in Data Science is as follows :

S. NO.	PARTICULARS	Total (INR)	I Installment	II Installment	III Installment	IV Installment
1	COURSE FEES	180800	45200	45200	45200	45200
2	CAUTION MONEY (Refundable)	7500	7500	---		
3	EXAM FEE# (Per Sem.)	10300	1900	1900	1900	4600
4	REGISTRATION FEE#	3500	3500		---	---
5	BTU DEVELOPMENT FEE#	1000	1000		---	---
	Total	203100	59100	47100	47100	49800

University enrollment fee will be charged separately.

The I installment of fee i.e. Rs. 59100/- is to be paid at the time of admission and remaining installments may be paid after every 6 months.

# Subject to change as per University Guideline.



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For admission queries, call now :  
**Er. Shrutika (9799999190)**

Apply Online :  
[www.jietjodhpur.ac.in/mtech-datascience](http://www.jietjodhpur.ac.in/mtech-datascience)

Campus :

JIET Universe, NH-62, Pali Road, Mogra, Jodhpur - 342 802 (Raj) IN



Telephone :  
0291-2868152/53  
9799999186



Email :  
[info@jietjodhpur.ac.in](mailto:info@jietjodhpur.ac.in)



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