

***DEPARTMENT OF COMPUTER SCIENCE & DATA SCIENCE***



***B. Sc. Computer Science***  
***B. Sc. Computer Science (Data Science)***  
***M. Sc. Data Science***



# ABOUT NASC

- NAAC A+ with CGPA 3.5
- NIRF Rank -101-150
- Top 100 Colleges in the week and India Today Ranking
- IIC Ranking - 4 Star
- Project Based Learning and Lab Facilities
- Industry Oriented Skill Enhancement Training
- Internship Embedded Curriculum



## DEPARTMENT HIGHLIGHTS



- Industry Relevant Curriculum □
- Hands on Projects and Industrial Internship □
- Technical Training for Upskilling □
- Research Opportunities through Publications □
- International Exposure □
- Entrepreneurial Support □
- Credit Transfer System through Institutional Collaboration □
- Project Boot Camp □
- Intra Collegiate Colloquium □
- Industrial Exploration Trip □

## ELIGIBILITY

**B. Sc. Computer Science**

Plus two in Science stream.  
Minimum score of 50%

**M. Sc. Data Science**

Degree in any quantitative  
subjects

**B. Sc. Computer Science (Data Science)**

Plus two with Physics, Chemistry, and Mathematics



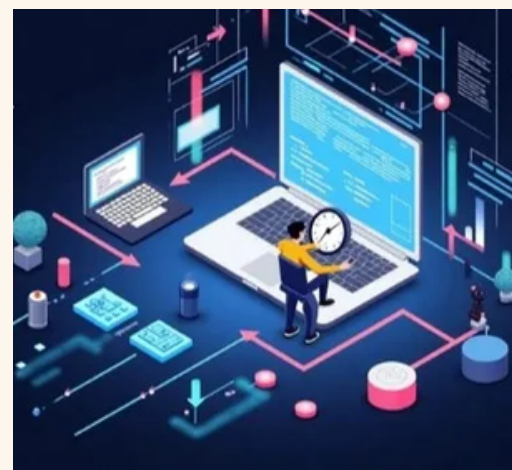
# ROUTE MAP

## B. Sc. Computer Science

SEMESTER	ACADEMICS	TRAINING	CERTIFICATION
I	Programming Fundamentals Mathematics Digital Logic	Extension Activities Out Bound Training	Environmental Science (Field Visit) Swayam Course
II	Data Structures Java Programming Discrete Mathematics	Career Foundation Skill Training	Lingua Skill Spoken Tutorial
III	Operating Systems Python Programming Operation Research	Employ-ability Enhancement Training Industrial Visit	Institute-Industry Linkage Add-On
IV	R Programming Bio-informatics Software Engineering	Internship	Coursera
V	Computer Networks Mobile App Development Artificial Intelligence Cyber Security	Industry Exploration	Institute-Industry Linkage Add-On
VI	Full Stack Development Database Concepts Cyber Security Major Project	Boot Camp Training	Infosys Spring Board Research Publication

## CAREER OPPURTUNITY

- Software Engineer
- Web Developer
- Data Analyst / Data Scientist
- Database Administrator
- Cybersecurity Analyst
- Cloud Computing Specialist



**B. Sc. Computer Science(Data Science)**

SEMESTER	ACADEMICS	TRAINING	CERTIFICATION
I	Object Oriented Programming with C Data Structures Statistics for Computer Science	Extension Activities Out Bound Training	Environmental Science (Field Visit) Swayam Course
II	Java Programming Operating Systems Discrete Mathematics	Career Foundation Skill Training	Lingua Skill Spoken Tutorial
III	Introduction to Data Science RDBMS and MySQL Probability and Inferential Statistics	Employ-ability Enhancement Training Industrial Visit	Institute-Industry Linkage Add-On
IV	Linear Algebra and Basics of Calculus R Programming	Internship	Coursera
V	Machine Learning Introduction to Artificial Intelligence Data Visualization	Industry Exploration	Institute-Industry Linkage Add-On
VI	Big Data Analytics Deep Learning Major Project	Boot Camp Training	Infosys Spring Board Research Publication



**CAREER OPPURTUNITY**

- Data Visualization Specialist
- Statistical Analyst
- .Business Analyst
- Machine Learning Engineer
- .AI Engineer

## M. Sc. Data Science

SEMESTER	ACADEMICS	TRAINING	CERTIFICATION
I	Data Analytics with R Programming Advanced Database Management Systems Descriptive Statistics Elective : Principles of Data Science Text Analytics Artificial Intelligence for Data Science	Out Bound Training	Field Visit Swayam Course
II	Deep Learning for Data Science Linear Algebra Elective :Web Analytics Social Media Analytics Business Intelligence	Placement Training Industrial Visit	Industry Add-On
III	Information Retrieval Techniques Exploratory Data Analysis Data Privacy and Security Probability and Inferential Statistics Elective :Natural Language Processing Time Series Analysis Healthcare Analytics	Outreach Activities Internship	Coursera Infosys Spring Board
IV	IoT Analytics Major Project	Boot Camp Training	Research Publication

### CAREER OPPURTUNITY

- Business Intelligence (BI) Developer
- Cloud Data Engineer / Architect
- Big Data Engineer
- Quantitative Analyst
- Research Scientist

