



# HSNC UNIVERSITY, MUMBAI

H.R COLLEGE | K.C. COLLEGE | B.T.T.C



## SCHOOL OF APPLIED SCIENCES

**MSc Data Science &  
Business Analytics**

**ADMISSIONS OPEN** for the  
Academic Year **2024-2025**

Learn how to unleash the Power of Data to Drive Growth, Efficiency, and Innovation in Today's Competitive Business Landscape.

**Enroll Now**



[www.hsncu.edu.in](http://www.hsncu.edu.in)

 [datascience@hsncu.edu.in](mailto:datascience@hsncu.edu.in)

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**47, Dr. R. G. Thadani Marg, Worli, Mumbai – 400 018**

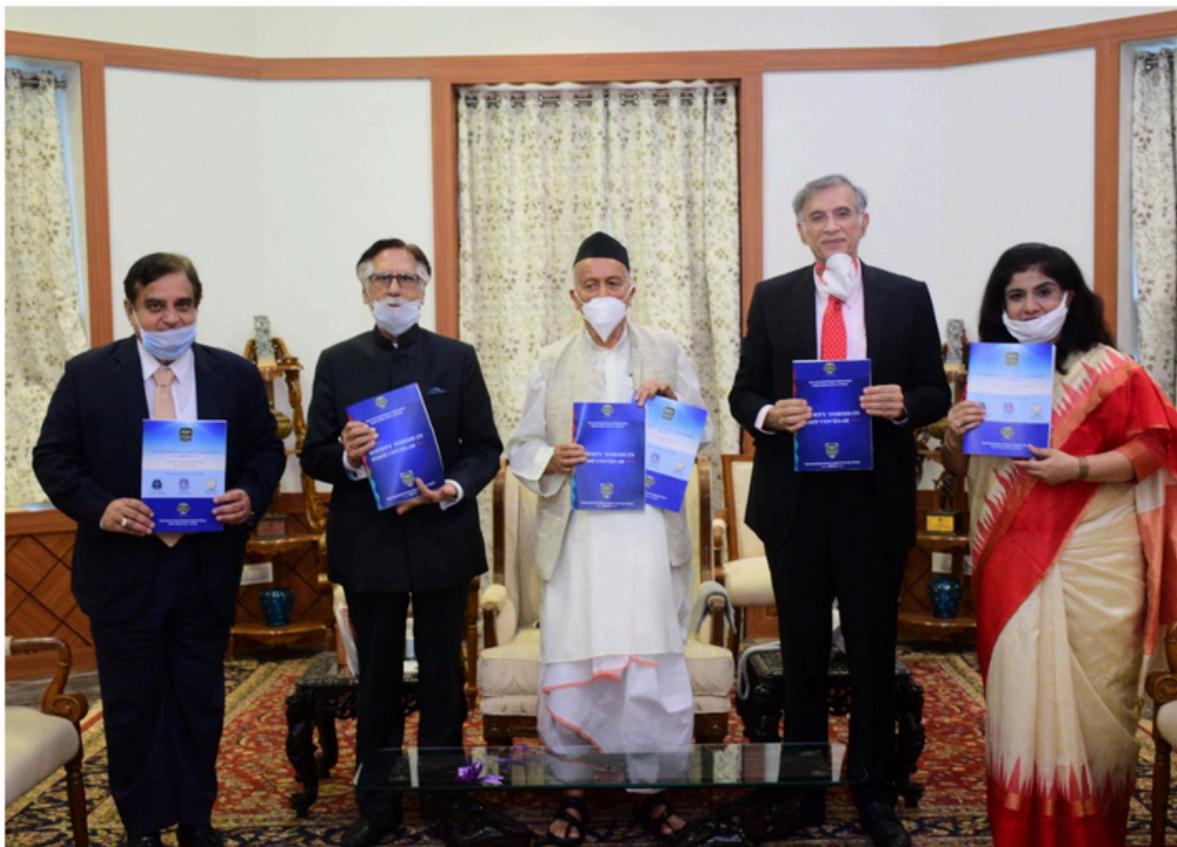
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## About HSNC University, Mumbai

The HSNC University has been approved by RUSA and the Govt. of Maharashtra and is a State Cluster University with the Hon. Governor of Maharashtra as its Chancellor and eminent industrialist, Dr. Niranjn Hiranandani as its first Provost. The HSNC University comprises of renowned South Mumbai colleges like H.R College of Commerce & Economics as its Lead college, K.C College of Arts, Science & Commerce and Bombay Teachers' Training College as its constituent colleges.

HSNC University is set to build partnerships with the industry and have a new curriculum aligned with industry 4.0. The aim will be to not only learn from the requirements of the market and have industry collaborators willing to orient students towards the same, but also to ensure internships and the best placements for its graduating students.

This multi-faceted University aims to set new paradigms of education. It wishes to harness the energy and enthusiasm of the young, dynamic population of India and guide it towards the path of learning, knowledge, research, innovation, service to society, and entrepreneurship. This newly launched State Public University is set to make its indelible mark in the higher education industry in Mumbai and the country by initiating several landmarks with relevant and contemporary programs of study.



*Launch of HSNC University, Mumbai  
10.06.2020 at Raj Bhavan*

## Key People



**Shri Ramesh Bais**

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*Hon'ble Chancellor HSNC University, Mumbai  
Governor Of Maharashtra*



**Dr. Niranjana Hiranandani**

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*Provost  
HSNC University, Mumbai*



**Dr. Hemlata K. Bagla**

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*Vice Chancellor HSNC University, Mumbai  
Director, Niranjana Hiranandani School  
Of Management And Real Estate*



## About School of Applied Sciences

School of Applied Sciences was the first school formed in 2020 by the HSNCU University, Mumbai. In the same year, BSc in Data Science and Business Analytics was the first course started under School of Applied Sciences. Further in 2022 MSc in Data Science and Business Analytics program was introduced. Data is the new oil. The analytics can become inputs for human decisions or drive fully automated decisions. It helps decision-makers build strategies to perform deep-dive understanding and provide descriptive, predictive and prescriptive analytics. It is used to run the business effectively and is instrumental in its growth. Business Analytics include identifying KPIs, measurement strategy, data analysis, **statistical model building, data mining**. Data Science and Business Analytics program include building Strategies, Predictive and Prescriptive analysis, forecasting, Risk Analysis, Prevention of Fraud etc. Data Scientists use their skills and provide insights into discrete data sets, build complex models and present them in Scorecard format and use the same in executive reviews to lead a data-driven discussion and decisions. Some of the impactful use of Data Science is in Management Information Systems, Financial Services, Market Research, Process Improvements, Process Excellence, End-to-End Product Management, etc. The program emphasizes both theory and modern applications of Data Science and Business analytics. It is structured to provide knowledge and skills necessary for students' employability in industry, academics, and other government and non-government organizations. The program has some unique features like independent projects, several elective courses and extensive computer training in **SPARK, HADOOP** using standard software packages like **SQL, SPSS, Power BI, MINITAB, R, Tableau, PYTHON** etc. Being a Cluster University, the department got the academic autonomy, and it has been utilized to add the new and need-based elective courses. The independent project work is one of the essential components of this program. The syllabus has been framed to possess a decent balance of theory, methods and applications. The students can study introductory courses from other disciplines like economics, life sciences, Law, Yoga, Image Consultancy, Fintech in place of optional/electives. The thrust of the course is to prepare students to enter into a promising career after graduation and provide them with a platform for pursuing higher studies resulting into post-graduation degrees.

## **MSc**

Candidate for being eligible for admission to the First semester of 2 year Masters program must have passed BCA/BSc Statistics/BSc Mathematics/BSc Computer Science/BSc IT/BCom-IT /BA- Eco & Mathematics /BA - Eco & Statistics/BE or BTech or equivalent university degree with minimum percentage of marks not below 50%. Candidates with knowledge of mathematics and statistics are preferred. Duration: 2 years/4 Semesters.

## **Scope of DataScience & Business Analytics**

1. Data Scientist
2. Data Analyst
3. Data Engineer
4. Business Intelligence Developer
5. Database Administrator
6. Machine Learning Engineer
7. Data Architect
8. Statistician
9. Business Analyst
10. Data and Analytics Manager

The Masters's degree from HSNC University prepares students for effective business intelligence, analytics, decision making based on data, and to take up leadership roles. Every single course is designed to connect you to real-world applications. You'll emerge from the program as an experienced professional, having overcome the challenges of solving actual organizational issues with real-time data-sets on multiple occasions.

## MSc Course Outline (NEP)

### **Prerequisite:**

#### **A. Microsoft Excel for beginners**

- a. Excel Tables, Filters, Sorting
- b. Pivot Tables and Charts
- c. Formats, Formulas, Dates
- d. Functions – Mathematical, Statistical, Text, Date

#### **B. Data Collection & Visualization:**

- a. Definition of data, Types of data, Sources of data, Concepts of measurement, scales of measurement, design of data collection formats with illustration. Concept of Population, sample, parameter, statistic, Complete enumeration, Need of sampling, Sample study, Sampling techniques.
- b. Frequency distributions, Tabulation, Measures of Central tendency, Measures of dispersion.

## **SEMESTER 1**

- Foundations of Data Science
- Computational Mathematics
- Python Programming
- Data Analytics using R
- Research Methodology

## **SEMESTER 3**

- Advance Machine Learning.
- Deep Learning
- Big Data Analytics
- Data Visualization
- Statistical Quality control / Marketing Analytics

## **SEMESTER 2**

- DBMS with SQL
- Machine Learning
- Advanced Statistical methods
- Cloud Computing
- Financial Technology

## **SEMESTER 4**

- Business Analytics
- Artificial Intelligence
- MLOps with Cloud Technologies
- Natural Language Processing
- Supply Chain Analytics
- Research Project

# Admission Schedule

Details	Dates
Online Application	15th May, 2024
Payment of fees	Please refer to the Circular / Merit list
Induction Programme and commencement date for enrolled candidates	TBA
For Registration	<a href="https://hsncu.admissiondesk.org/">https://hsncu.admissiondesk.org/</a>

# Fee Structure

## MSc Course Fee

Msc Data Science			
SR. NO.	PARTICULARS	Part -I	Part -II
1	ADMISSION PROCESSING	2000	2000
2	ENROLMENT/ ELIGIBILITY FEES	2000	0
3	E CONVENIENCE FEES	1000	1000
4	CONVOCAION FEES	1000	0
5	LIBRARY FEES	2000	2000
6	OTHERS FEES	1000	1000
7	MARKSHEET	600	600
8	V C RELIEF FUND	20	20
9	DISASTER RELIEF FUND	10	10
10	N S S	20	20
11	UNIV.SPORTS & CULACT.	36	36
12	EXAMINATION FEES	4260	4260
13	GYMKHANA FEES	400	400
14	UTILITY FEES	250	250
15	DEVELOPMENT FUND	2500	2500
16	TUITION FEES	55000	55000
17	I CARD/LIB CARD	100	100
18	STUDENTS WELFARE FUND	200	200
19	GROUP INSURANCE	50	50
20	LABORATORY FEES	30000	30000
21	MAGAZINE FEES	100	100
22	ALUMNI ASSOCIATION	200	200
23	PROJECT FEES	3000	3000
	TOTAL	105746	102746

# Infrastructure



# Featured Faculty



*Ms. Shailaja J. Rane  
Academic Head*



*Ms. Anjali Sutar  
Assistant Professor*



*Mr. Sikandar Yadav  
Assistant Professor*



*Ms. Prachi Angane  
Assistant Professor*



*Ms. Sharon Sanghi  
Assistant Professor*



*Ms. Shweta Shankar Maitri  
Assistant Professor*

## INDUSTRY EXPERTS

<i>Mr. Awesh Bhornya</i>	<i>Mr. N. Prasad</i>
<i>Ms. Sana Navsariwala</i>	<i>Dr. Neha Ansari</i>
<i>Mrs. Gauri Chavan</i>	<i>S. Sirodaria</i>
<i>A. Hegde</i>	<i>S. Nigam</i>
<i>Suraj Powar</i>	<i>Pushkar Yevlekar</i>
<i>Hina Chauhan</i>	<i>Mr. Subhash Kumar</i>

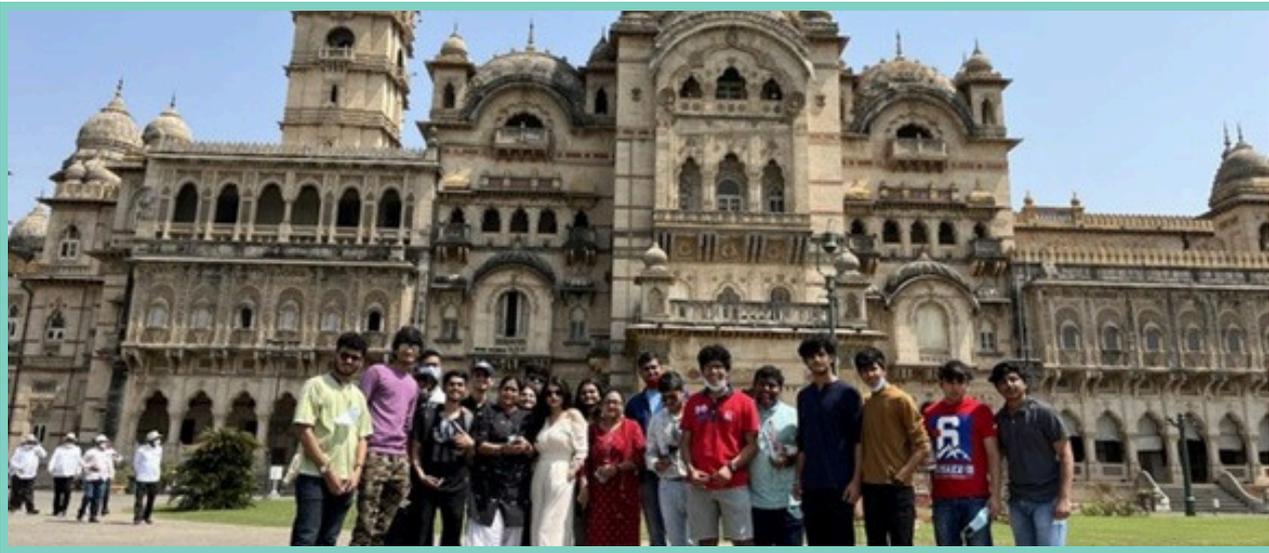
## Internship/Placement Partners

Company
StampMyVisa
CSMIA (MIAL)
RISEMYTRIP
THOMAS COOK
RIFTI SOLN.
DOERS SOLN.
STRIDE AHEAD
CELEBRATION & EVENT MANAGEMENT
MATRIX 3D INFOCOM PVT LTD
CYBERCO SOLN
XIRCLS PYTH DEVELOPER
ELLEMENT CO
REBEL FOODS
STAYVISTA
RESEARCH AND RANKING
TAGIT
NielsenIQ
TATA AIG GENERAL INSUARANCE
KOTAK MAHINDRA LIFE INSURANCE
SUNTECH AUTOSPARES
RIFTI SOLN.
CIPLA
ACE CREDENTIALS
RUPA INVESTMENT PVT LTD
WONDER BROTHERS INTERNATIONAL FILMS
KANTAR
NIELSEN
DELOITTE

# Industrial Visit



***Industrial Visit to ISRO***



***Industrial Visit to Gujarat***



***Industrial visit to GMRT Pune***



***Brain Storming Session***

# Industrial Visit



*Industrial visit to Stovekraft*



*Visit to Pharmaceutical Industry*



*Industrial visit to Bharat petroleum limited*



*Industrial visit to Pune*

# Student Activities



**Induction Programme**



**Screening of Chandrayaan-3 launch**



**Financial analytics**



**Bollywood Day**



**Freshers**



**Scicode**

# Student Activities



*Workshop on Quality Assurance*



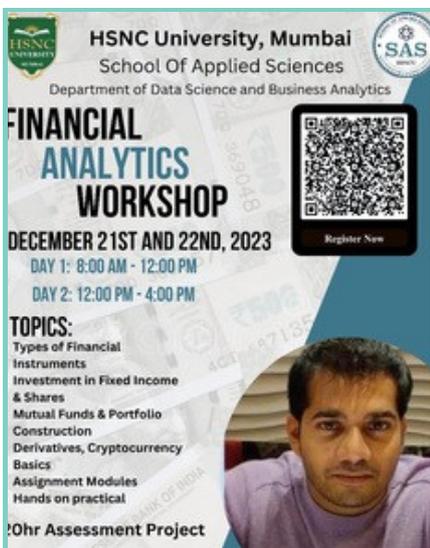
*Workshop on Dot Net*



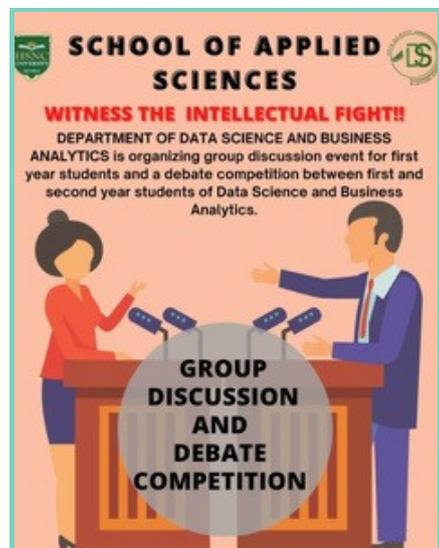
*Workshop on SAS*



*Workshop on Across the dataverse*



*Workshop on SAS*



*Group Discussion & Debate Competition*