



HSNC UNIVERSITY, MUMBAI

A NEW ERA IN EDUCATION

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

TCS iON



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* For detail fee structure kindly visit the website



HSNC UNIVERSITY, MUMBAI

ABOUT HSNC UNIVERSITY

The Hyderabad (Sind) National Collegiate (HSNC) Board is one of the most prominent educational Boards of Maharashtra that has set up 17 educational institutions in and around Mumbai. In the year 2019, The HSNC Board completed 70 years of its educational journey and finally achieved the dream of its Founding Fathers - the establishment of a new State Cluster University - the Hyderabad Sind National Collegiate University (HSNC University). The HSNC University has been approved by RUSA and the Govt. of Maharashtra and is the first State Cluster University to be set up in the Government – Private Management Body partnership with the Hon. Governor of Maharashtra as its Chancellor and eminent industrialist, Dr Niranjana 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 and K.C College of Arts, Science & Commerce and Bombay Teachers' Training College as its constituent colleges. HSNC University will build partnerships with industry and have 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-faculty 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 University recognizes the vast potential of Science Communication in the knowledge economy and the lack of specialized educational curriculum and learning for students aspiring for a professional future in the Innovation, Technology and Science Enterprises and the expanding media. Hence KC College has designed the best of courses to adhere to the cutting edge technologies which facilitates substantial employability for the IT sector.



ABOUT TCS iON

TCS iON is a strategic unit of Tata Consultancy Services focused on Manufacturing Industries (SMB), Educational Institutions and Examination Boards. TCS iON provides technology by means of a unique IT-as-a-Service model, offering end-to-end business solutions. It caters to the needs of multiple industry segments, through innovative, easy-to-use, secured, integrated, hosted solutions in a build-as-you-grow, pay-as-you-use business model. TCS iON serves its clients with the help of best practices gained through TCS' global experience, domestic market reach, skills, and delivery capabilities. TCS iON's Cloud Based Solution is highly modular, scalable and configurable giving businesses and educational institutions the benefits of increased efficiencies, faster go to market, predictability of technology as well as spend and better business results.

OVERVIEW OF THE COURSE

Certificate Course Name: Data Modeling and Visualization

Course Details: The Data Modeling and Visualization course provides the basic framework for performing data analysis using some fundamental data modeling and data visualization techniques. The course also introduces R as a programming language, where students learn to deal with data analysis problems in a structured framework. Moreover, they will gain experience on framing a basic comprehensive solution to a data analysis problem.

Course Pre-requisites: Basic knowledge of programming fundamentals

SR. NO.	TOPIC	DURATION (5 - 6 MONTHS)	ELIGIBILITY
1	Data-Analytic Thinking , Knowing your data ,Data preprocessing, Storytelling with data.		Graduation Programme-BSc- Data Science, BSc IT and BSc CS pursuing Students , Semester 3 rd , 4 th , 5 th , 6 th . Post Graduation Programme- MSc IT, MSc CS.
2	Data Visualization using R, Introduction to R programming, Visualization using R, Transformation using R, Exploratory data analysis.		
3	Data Modeling, Linear regression, Logistic regression ,K-nearest neighbors, K-means clustering		
4	Data Visualization using Tableau , Introduction to Tableau, data import and management, data type and operations, Different types of data visualizations, dashboards, storytelling		
5	Data Modeling from Different Data Sources for Visualization, Understanding structured, unstructured and semi-structured data sources, Data modeling and creating visualization charts/dashboards from structured data like databases (SQL and NoSQL)		

Fees Rs. 14800/-

OVERVIEW OF THE COURSE

Certificate Course Name: Artificial Intelligence for Real world Application

Course Details: This course helps students understand various concepts of Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL), Tensor Flow and Natural Language Processing (NLP).

Through this course, students will gain hands-on learning by implementing AI/ML concepts and algorithms through industry assignments leveraging integrated Python based programming environment

SR. NO.	TOPIC	DURATION (5 - 6 MONTHS)	ELIGIBILITY
1	Introduction to Artificial Intelligence (AI)		Graduation Programme-BSc-Data Science,BSc IT and BSc CS pursuing Students, Semester 3 rd , 4 th , 5 th , 6 th . Post Graduation Programme- MSc IT, MSc CS.
2	Tools to be used for AI programming and its overview		
3	What is cognitive science and the problem of perception		
4	Applications of AI		
5	Search-Intelligent agents, uninformed search		
6	Search Techniques 1 - search space, state space search		
7	Search Techniques 2 - heuristic search, and pattern-directed search		
8	Planning, control strategies and implementation, constraint satisfaction		
9	Problem solving by heuristic search, A* algorithm, AO* algorithm		
10	Adversarial search, game playing		
11	Reasoning -Proposition and first-order logic		
12	Rule-based systems, semantic net, conceptual graph, inference and deduction		
13	Resolution refutation, answer extraction		
14	Reasoning under uncertainty - probabilistic reasoning, belief networks		

Fees Rs. 14800/-

OVERVIEW OF THE COURSE

Certificate Course Name: Wealth Management

Course Details: Wealth management refers to having a knowledge of all products that are considered as investment and recommending the right investment products to investors. With the projected increase in jobs in the financial sector, the knowledge of wealth management becomes a must for a job in the mutual fund, banking or trading industry.

Wealth Management is a course that prepares students for entry-level jobs in the portfolio management segment, especially with banks and brokerage firms. It helps them understand and explain the various assets available for investment, recommend investment products, manage wealth and portfolio of self and customers.

SR. NO.	TOPIC	DURATION (5 - 6 MONTHS)	ELIGIBILITY
1	Introduction to Financial Planning		Graduation Programme-BSc- Data Science, BSc IT and BSc CS pursuing Students , Semester 3 rd , 4 th , 5 th , 6 th . Post Graduation Programme- MSc IT, MSc CS.
2	Asset Classes		
3	Financial Planning Tools		
4	Asset Allocation		
5	Modern Portfolio Theory		
6	Measuring Risk and Return		
7	Elements of the Financial Plan		
8	Customer Relationship Management		

Fees Rs. 9794/-

OVERVIEW OF THE COURSE

Certificate Course Name: Business English

Course Details: The Business English course is designed to equip students with the skills needed to be effective communicators and professionals in the 21st Century.

This Course helps students to learn how to use English for business communication, what is acceptable non-verbal communication, how to use different communication modes and understand the cultural complexities that drive communication

Course Pre-requisites: Knowledge of Functional English is required for taking up this course.

SR. NO.	TOPIC	DURATION (5 - 6 MONTHS)	ELIGIBILITY
1	Language: A Tool for Communication		Graduation Programme - B.E./ B.Tech, M.E./M.Tech, B.Com, M.Com, B.Sc, M.Sc, BCA, MCA, BBA, MBA Branch - Common across all branches Semester - Any
2	What is Business English?		
3	Mechanics of English - Form and Function		
4	Text Styles and Purposes - Reading and Writing		
5	Aural Communication - Listening and Speaking Strategies		
6	Critical Thinking and Collaborative Creativity		

Fees Rs. 8300/-

OVERVIEW OF THE COURSE

Certificate Course Name: CAD for 3D Design

Course Details: The 'CAD for 3D Design' certification course is delivered for the students to visually understand the product design and simulation before manufacturing to improve product quality and performance. Insights on the Computer-Aided Designing concepts and principles are offered for the students by this industry honors certification program. The certification course is provided by TCS iON digital learning hub for a period of five to six months.

Course Pre-requisites: The students applying for this course are required to have a fundamental knowledge of engineering drawings.

SR. NO.	TOPIC	DURATION (90 Hours)	ELIGIBILITY
1	Fundamentals of Computer-Aided Design (CAD)		Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering Semester - 5th, 6th, 7th and 8th
2	Transformations and Viewing Pipeline		
3	2D Modeling		
4	3D Part Modeling - Section A		
5	3D Part Modeling - Section B		
6	Surface Modeling		
7	Working with a CAD System		
8	Editing the Solids		
9	Sectioning and Hands-on		
10	Rendering and Assigning Material (Virtual Reality)		
11	Assembly and Kinematic Movements Simulation of CAD Models		
12	Generation of Commercial Models and Data Sheets		
13	3D Modeling for Additive Manufacturing (AM)		
14	Future CAD Use Cases (Advanced Topics)		

Fees Rs. 14800/-

REGISTRATION DETAILS

Registration links

For Existing Students:

 <https://erp.hsncu.edu.in>

For New Students:

 <https://erp.hsncu.edu.in/default.aspx>

LAST DATE OF REGISTRATION

- 25th January 2022



COMMENCEMENT OF COURSE

- First Week of February-2022



FOR ENQUIRIES CONTACT

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