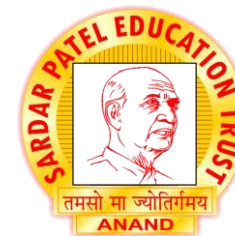




C P PATEL AND F H SHAH COMMERCE COLLEGE, ANAND
(AUTONOMOUS)

(Managed by Sardar Patel Education Trust, Anand)
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NAAC Reaccredited CGPA – 3.30 – Grade A+



Revised Syllabus as per NEP 2020 with effect from the Academic Year 2026-2027

Master of Science (Data Science)
Semester – I

Course Objectives- For M.Sc. Data Science Semester-I Programme	After successful completion of this course, the student will be able to: 1. The primary objective of the M.Sc. in Data Science program is to develop skilled professional workforce that is prepared to address the increasing needs in the rapidly expanding area of big data analytics. 2. The program aims to provide skills in quantitative data analysis, data mining, data modeling and prediction, data storage and management, machine learning, big data processing, data visualization, multimedia big data, programming and communication skills. Get familiar it with aspects of Business Environment. Value Added Course/ training and a large number of practical case studies have been integrated in the program to boost the learner confidence and market acceptability.
Programme Specific Outcome (PSO) - For M.Sc. Data Science Semester-1	After successful completion of this course, the student will be able to: 1. Implement professional knowledge in setting up road map to be an entrepreneur and identify research areas. 2. Ability to develop skills to address and solve social and environmental problem with ethics and perform multidisciplinary projects with advance technologies and tools. Data Science Post Graduates are able to become leaders in the society with the help of advanced knowledge and skill, which can empower them to analyses, design, develop and implement their learning to develop the society.
To Pass	At least 40% Marks in the External Examination in each paper. At least 40% Marks in the individual lead of passing or 33% marks in aggregate at the internal tests conducted by the Department.



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Master of Science (Data Science)
Semester – I

Course Type	Course Code	Name Of Course	Teaching -Learning Scheme		Credit	Assessment Scheme & Marks				
			L - P - T	Total Notional Hours		Internal Assessment			External Assessment	Total
						FA	SA	Total		
DSC	PGN1CMDS01	Programming in Python	4-0-0	120	04	20	30	50	50	100
DSC	PGN1CMDS02	Data Structures	2-0-0	60	02	10	15	25	25	50
DSC	PGN1CMDS03	Data Analysis using Office Tools	4-0-0	120	04	20	30	50	50	100
DSC	PGN1CMDS04	Principles of Data Science	4-0-0	120	04	20	30	50	50	100
DSC	PGN1CMDS05	Applied Mathematics	4-0-0	120	04	20	30	50	50	100
DSC	PGN1PMDS06	Practical - I	0-8-0	120	04	20	30	50	50	100
				660	22					550

DSC : Discipline Specific Core

L : Lecture

P : Practical

T : Tutorial

FA : Formative Assessment

SA : Summative Assessment