

Symbiosis Centre for Information Technology, Pune
Master of Business Administration (Data Sciences and Data Analytics)
Programme Structure 2023-25

1.	OBJECTIVE	Master of Business Administration (Data Sciences and Data Analytics) aims at developing Management professionals for Data Sciences and Data Analytics stream. The program will enable students to approach data using scientific methods. This program will develop the ability to think about the real problems that need to be solved, not to simply find technical solutions. Students will learn the theory behind the tools, which in turn will make you a more versatile data scientist. Data Sciences and Data Analytics will enable the candidates gain analytics competencies and hands on the tools used in data sciences thereby preparing them for business and techno-functional roles in data sciences and analytics projects.				
2.	DURATION (IN MONTHS)	24 (Full Time)				
3.	INTAKE	60				
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)	d) Defence (In Percentage)
			15	7.5	3	0
		II.Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)		b) International Students (In Percentage)	
			2		20	
5.	ELIGIBILITY	Graduate with Mathematics at Standard 10+2 level from any recognised University/ Institution of National Importance and with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste/ Scheduled Tribes).				
6.	SELECTION PROCEDURE	Performance in SNAP test, Group Excercise, Personal interaction, Written Ability Test (GEPIWAT), Past academic record, work experience				
7.	MEDIUM OF INSTRUCTION	English				
8.	PROGRAMME PATTERN	Semester				
9.	COURSE & SPECIALISATION	As per Annexure A				
10.	FEE		Academic Fee p.a	Institute Deposit	Total	

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	Indian Students (Amount in INR)		693000	20000	713000			
	International Students	NRI/ PIO/ OCI Category (Amount in US\$)	13550	275	13825			
		Foreign National Category (Amount in US\$)	2600	275	2875			
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 60% internal component and 40% component as external [University] examination.						
12.	STANDARD OF PASSING	The assessment of the students for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10.000 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4.000 corresponding to Grade P (Pass). Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.						
13.	AWARD OF DEGREE	Master of Business Administration (Data Sciences and Data Analytics) degree will be awarded after taking into consideration the performance in all semester examinations and internship taken together after obtaining minimum 4.0 CGPA out of 10.00.						
14.	CLASSIFICATION OF CREDITS							
Semester	Generic Core	Generic Elective	Specialisation Core	Specialisation Elective	Open Elective	Non-Letter Grade Mandatory Course/s	Non-Letter Grade Audit Course/s	Total
Common								
1	18	9	0	0	0	1	As per the student's choice	27
2	20	0	0	0	9	0		29
3	18	0	0	0	9	0		27
4	8	9	0	0	0	0		17
Total	64	18	0	0	18	0		100
The revised programme structure supersedes the previously approved programme structure dated 02/05/2024 for the programme.								

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council.
Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Director - Academics

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Continuous Assessment	Term End Examination	Total Marks
Semester : 1							
Generic Core Courses							
T2778	0302420101	Basics of Financial Management		2	60	40	100
T2216	0302420102	Business Statistics		2	60	40	100
T3445	0302420103	Data Mining		2	60	40	100
T3443	0302420104	Data preparation and Data management		2	60	40	100
T3436	0302420105	Domain Study(Manufacturing and Logistics)		2	60	40	100
T3637	0302420106	Mathematics Foundation		2	60	40	100
T3683	0302420107	Operations Research and Optimization Techniques		2	100	0	100
T2560	0302420108	Principles and Practices of Management		2	60	40	100
T2225	0302420109	Research Methodology		2	100	0	100
T4005	0302420110	Integrated Disaster Management		0	0	0	Non - Letter Grade Mandatory
Total				18	620	280	900
Generic Elective Course Group (Choose any three courses)							
T3446	0302420111	Advance Data Mining		3	90	60	150
T3331	0302420112	Cloud Computing		3	90	60	150
T3447	0302420113	Machine learning		3	90	60	150
T3448	0302420114	Text Analytics		3	90	60	150
Total Required Credits				9	270	180	450
Semester : 2							
Generic Core Courses							
T3450	0302420201	Advance data organization		2	60	40	100
T3070	0302420202	Advanced Business Statistics for Decision Making		2	60	40	100
T3451	0302420203	Data Visualization and Modeling		2	100	0	100
T3437	0302420204	Domain Study(BFSI)		2	60	40	100
T2114	0302420205	Essentials of Marketing Management		2	60	40	100
T3635	0302420206	Financial Analytics		2	60	40	100
T3718	0302420207	Knowledge Graphs		2	100	0	100
T6075	0302420208	Managerial Economics		2	60	40	100

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Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Continuous Assessment	Term End Examination	Total Marks
T3449	0302420209	Predictive Analytics		2	60	40	100
T2253	0302420210	Strategic Management		2	60	40	100
Total				20	680	320	1000
Open Elective Course Group (Choose any three courses)							
T3509	0302420211	Artificial Intelligence	Artificial Intelligence	3	90	60	150
T3562	0302420212	Cognitive Computing	Artificial Intelligence	3	90	60	150
T3453	0302420213	Deep learning	Artificial Intelligence	3	90	60	150
T3568	0302420214	Natural Language Processing	Artificial Intelligence	3	90	60	150
T3309	0302420215	Big Data Analytics	Data Analytics	3	90	60	150
T3559	0302420216	Marketing Analytics	Data Analytics	3	90	60	150
T3454	0302420217	Software analytics	Data Analytics	3	90	60	150
Total Required Credits				9	270	180	450
Semester : 3							
Generic Core Courses							
T3908	0302420301	Summer Internship		8	240	160	400
T3455	0302420302	Data Protection and Privacy		2	60	40	100
T2658	0302420303	Design Thinking		2	100	0	100
T3435	0302420304	Domain Study(Retail)		2	60	40	100
T2353	0302420305	Entrepreneurship		2	60	40	100
T2572	0302420306	Human Resource Management		2	60	40	100
Total				18	580	320	900
Open Elective Course Group (Choose any three courses)							
T3560	0302420307	Computer Vision	Artificial Intelligence	3	150	0	150
T2618	0302420308	Project Management	Artificial Intelligence	3	150	0	150
T3716	0302420309	Generative Adversarial Networks	Artificial Intelligence	3	150	0	150
T3561	0302420310	Human Computer Interaction	Artificial Intelligence	3	150	0	150
T3558	0302420311	Reinforcement Learning	Artificial Intelligence	3	150	0	150
T3636	0302420312	Quantum Machine Learning	Data Analytics	3	150	0	150
T3457	0302420313	Fraud Detection Analytics	Data Analytics	3	150	0	150
T3459	0302420314	Insurance Analytics	Data Analytics	3	150	0	150
T3134	0302420315	Social Media and Web Analytics	Data Analytics	3	150	0	150
T3460	0302420316	Supply chain and operations analytics	Data Analytics	3	150	0	150

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Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Continuous Assessment	Term End Examination	Total Marks
Total Required Credits				9	450	0	450
Semester : 4							
Generic Core Courses							
T3802	0302420401	Capstone Project and Defence		2	60	40	100
T2236	0302420402	Corporate Governance and Ethics		2	60	40	100
T3702	0302420403	Dissertation		2	100	0	100
T2416	0302420404	Sustainability Standards - Application, Analysis and Reporting		2	60	40	100
Total				8	280	120	400
Generic Elective Course Group (Choose any three courses)							
T3456	0302420405	Customer analytics		3	150	0	150
T3462	0302420406	Cyber Security Analytics		3	150	0	150
T3463	0302420407	Energy analytics		3	150	0	150
T3458	0302420408	Healthcare analytics		3	150	0	150
T3464	0302420409	HR Analytics		3	150	0	150
T3461	0302420410	IoT analytics		3	150	0	150
Total Required Credits				9	450	0	450

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Semester	Continuous Assessment	Term End Examination	Total Credits	Total Marks
Common				
Semester 1	4	23	27	1350
Semester 2	4	25	29	1450
Semester 3	11	16	27	1350
Semester 4	11	6	17	850
Total	30	70	100	5000