

Institute Code	Institute Name	Program Code	Program Name	Catalog Course Code	Catalog Course Name	Course Type	Batch 2020	Batch 2021	Change in T-Code Yes / No	Change in course/Nature	Change in Pedagogy	Change in evaluation	Change in instruction method	Add on course	Changes Yes: Revised No: Not Revised
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	F3001	Advanced Big Data Analytics	Elective	Base PS	Dropped	Yes						Yes
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	GEN002	Project	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	GEN003	Internship	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	GEN005	Non Catalog Courses	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)			Elective	Base PS	Dropped	Yes						Yes
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T0100	Research Publication	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2114	Essentials of Marketing Management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2216	Business Statistics	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2225	Research Methodology	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2236	Corporate Governance and Ethics	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2253	Strategic Management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2353	Entrepreneurship	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2416	Sustainability Standards - Application, Analysis and Reporting	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2560	Principles and Practices of Management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2572	Human Resource Management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2658	Design Thinking	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T2778	Basics of Financial Management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3070	Advanced Business Statistics for Decision Making	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3134	Social Media and Web Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3309	Big Data Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3331	Cloud Computing	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3435	Domain Study(Retail)	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3436	Domain(Manufacturing and Logistics)	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3437	Domain Study(BFSI)	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3443	Data preparation and Data management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3444	Programming for Data Sciences	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3445	Data Mining	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3446	Advance Data Mining	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3447	Machine Learning	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3448	Text Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3449	Predictive Analytics	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3450	Advance data organization	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3451	Data Visualization and modeling	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3453	Deep learning	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3454	Software analytics	Elective	Base PS	No Change	No						No

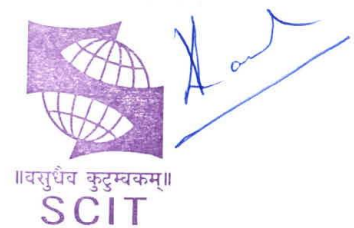


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Institute Code	Institute Name	Program Code	Program Name	Catalog Course Code	Catalog Course Name	Course Type	Batch 2020	Batch 2021	Change in T-Code Yes / No	Change in course/Nature	Change in Pedagogy	Change in evaluation	Change in instruction method	Add on course	Changes Yes: Revised No: Not Revised
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3455	Data Protection and Privacy	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3456	Customer Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3457	Fraud Detection Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3458	Healthcare Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3459	Insurance Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3460	Supply chain & operations analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3461	IoT analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3462	Cyber Security Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3463	Energy Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3464	HR Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3509	Artificial Intelligence	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3558	Reinforcement Learning	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3559	Marketing Analytics	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3560	Computer Vision	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3561	Human Computer Interaction	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3562	Cognitive Computing	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3635	Financial Analytics	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3636	Quantum Machine Learning	Elective	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3637	Mathematics Foundation	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T3684	Advanced Big Data Analytics	Elective		Added	Yes					New course	Yes
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T4005	Integrated Disaster Management	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	T6075	Managerial Economics	Core	Base PS	No Change	No						No
302	SCIT, Pune	30242	M.B.A. (Data Sciences and Data Analytics)	TH4272	Certificate in COVID-19 Care for the Community	Core		Added	Yes					New course	Yes



SYMBIOSIS CENTRE FOR INFORMATION TECHNOLOGY

Symbiosis International (Deemed University)

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC

Founder : Prof. Dr. S. B. Mujumdar M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)



Celebrating 50 Years of Excellence

Percentage of Programmes where syllabus revision was carried out from AY 2021-2023

Name of the Institute: Symbiosis Centre for Information Technology

Name of the Programme: Master of Business Administration (Data Sciences and
Data Analytics)

INDEX

Academic Year	Particulars	Page Number
2021-2023	Approved Programme Structure	6-11


Dr. Dhanya Pramod
Director SCIT





Ekta Kulkarni <studentcoordinator@scit.edu>

Fwd: Revision Lettter

1 message

Director SCIT <director@scit.edu>

Sat, Apr 30, 2022 at 9:33 PM

To: dydirector@scit.edu, Ekta <studentcoordinator@scit.edu>

----- Forwarded message -----

From: **head_academics@siu.edu.in** <head_academics@siu.edu.in>

Date: Sat, Apr 30, 2022, 4:44 PM

Subject: Revision Lettter

To: <director@scit.edu>, <coe@siu.edu.in>, <dyregistrar@siu.edu.in>, <pradipkumar.borate@siu.edu.in>, <head_academics@siu.edu.in>, <ar_academics@siu.edu.in>

**SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)**

(Established under Section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC

SIU/ACAD/2022/2073

Date: 30/04/2022

To
The Director
Symbiosis Centre for Information Technology, Pune

Subject: Revised Programme Structure.

Dear Sir/Madam,

Reference to SIU letter no SIU/U-110(SCIT, Pune)/2021/1816 dated 05/05/2021 regarding approval of programme structure of batch 2021-2023. The details of the revision are as follows:

Academic Year : 2021-2022

Sr.No.	Programme	Batch
1	Master of Business Administration (Data Sciences and Data Analytics) (Revision 01)	2021-2023

The revised programme structure supersedes the previously approved programme structures referred in the above letters.

You are requested to download the same using your Login Credentials the link is :

<http://eduwiz.intechsolutionspune.in/eduwiz/login.html>

Path: Academics->Catalogue->Programme Structure-> View Course Structure -> Select Institute -> Select Academic Year -> Select Programme -> Select Batch -> Select Revision-> Show Course Structure -> Print Programme Structure.

Thanking you.

Sincerely,



Dr. Pravin Dange
Head- Academics

Copy to: Controller of Examinations, SIU

1 Of 1



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Symbiosis Centre for Information Technology, Pune
Master of Business Administration (Data Sciences and Data Analytics)
Programme Structure 2021-23

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		15	
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 Exercise, Personal interaction, Written Ability Test (GEPIWAT), Past academic record, work experience				
7.	MEDIUM OF INSTRUCTION	English				
8.	PROGRAMME PATTERN	Semester				
9.	COURSE & SPECIALIZATION	As per Annexure A				
10.	FEE		Academic Fee p.a	Institute Deposit	Total	
		Indian Students	600000	20000	620000	
		International Students (USD equivalent to INR)	900000	20000	920000	
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/ DIPLOMA/ CERTIFICATE	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	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	18	9	0	0	0	2*	27
2	18	0	0	0	9	0	27
3	20	0	0	0	9	1*	29
4	8	9	0	0	0	0	17
Total	64	18	0	0	18	0	100

* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management', 'Research Publication' 'Certificate in COVID-19 Care for the Community' is mandatory for award of degree.

The revised programme structure supersedes the previously approved programme structure dated 30/04/2022 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.

Head - Academics

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Celebrating 50 Years of Excellence

Symbiosis Centre for Information Technology, Pune
Master of Business Administration (Data Sciences and Data Analytics)
Programme Structure 2021-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	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
T2560	0302420105	Principles and Practices of Management		2	60	40	100
T3444	0302420106	Programming for Data Sciences		2	100	0	100
T2225	0302420107	Research Methodology		2	100	0	100
T3436	0302420108	Domain Study(Manufacturing and Logistics)		2	60	40	100
T3637	0302420109	Mathematics Foundation		2	60	40	100
T4005	0302420110	Integrated Disaster Management *		0	0	0	Non Letter Grade
TH4272	0302420115	Certificate in COVID-19 Care for the Community *		0	0	0	Non Letter Grade
Total				18	620	280	900
Generic Elective Courses Group							
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
T2114	0302420204	Essentials of Marketing Management		2	60	40	100
T3449	0302420205	Predictive Analytics		2	60	40	100
T2253	0302420206	Strategic Management		2	60	40	100
T6075	0302420207	Managerial Economics		2	60	40	100
T3437	0302420208	Domain Study(BFSI)		2	60	40	100
T3635	0302420209	Financial Analytics		2	60	40	100



Celebrating 50 Years of Excellence

Symbiosis Centre for Information Technology, Pune
Master of Business Administration (Data Sciences and Data Analytics)
Programme Structure 2021-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Total				18	580	320	900

Open Elective Courses

T3453	0302420210	Deep learning	Artificial Intelligence	3	90	60	150
T3509	0302420211	Artificial Intelligence	Artificial Intelligence	3	90	60	150
T3562	0302420212	Cognitive Computing	Artificial Intelligence	3	90	60	150
T3309	0302420213	Big Data Analytics	Data Analytics	3	90	60	150
T3559	0302420214	Marketing Analytics	Data Analytics	3	90	60	150
T3454	0302420215	Software analytics	Data Analytics	3	90	60	150
Total Required Credits				9	270	180	450

Semester : 3

Generic Core Courses

T3909	0302420301	Industry Internship		10	300	200	500
T3455	0302420302	Data Protection and Privacy		2	60	40	100
T2658	0302420303	Design Thinking		2	100	0	100
T2353	0302420304	Entrepreneurship		2	100	0	100
T2572	0302420305	Human Resource Management		2	60	40	100
T3435	0302420306	Domain Study(Retail)		2	60	40	100
T0100	0302420307	Research Publication *		0	0	0	Non Letter Grade
Total				20	680	320	1000

Open Elective Courses

T3558	0302420308	Reinforcement Learning	Artificial Intelligence	3	150	0	150
T3560	0302420309	Computer Vision	Artificial Intelligence	3	150	0	150
T3561	0302420310	Human Computer Interaction	Artificial Intelligence	3	150	0	150
T3636	0302420311	Quantum Machine Learning	Artificial Intelligence	3	150	0	150
T3684	0302420312	Advanced Big Data Analytics	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 & operations analytics	Data Analytics	3	150	0	150
Total Required Credits				9	450	0	450

Semester : 4

Generic Core Courses



Celebrating 50 Years of Excellence

Symbiosis Centre for Information Technology, Pune
Master of Business Administration (Data Sciences and Data Analytics)
Programme Structure 2021-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T2236	0302420401	Corporate Governance and Ethics		2	60	40	100
T2416	0302420402	Sustainability Standards - Application, Analysis and Reporting		2	60	40	100
T2802	0302420403	Capstone Project and Defence		2	60	40	100
T3702	0302420404	Dissertation		2	100	0	100
Total				8	280	120	400
Generic Elective Courses Group							
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



Celebrating 50 Years of Excellence

Symbiosis Centre for Information Technology, Pune
Master of Business Administration (Data Sciences and Data Analytics)
Programme Structure 2021-23

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Artificial Intelligence				
Semester 1	4	23	27	1350
Semester 2	2	25	27	1350
Semester 3	13	16	29	1450
Semester 4	11	6	17	850
Total	30	70	100	5000
Data Analytics				
Semester 1	4	23	27	1350
Semester 2	2	25	27	1350
Semester 3	13	16	29	1450
Semester 4	11	6	17	850
Total	30	70	100	5000