Symbiosis Institute of Computer Studies and Research, Pune
Master of Business Administration (Information Technology)
Programme Structure 2021-23

1.	OBJECTIVE	To prepare students in applications of information technologies to deliver software solutions. The program focuses on * Imparting training in latest technologies. * Exposure to best business practices. * Building team leadership qualities and management skills As programme relates to current professional practice and the work place, the students are best suited for entry-level positions as: * Application Programmer: Using latest methodologies, development tools, languages. * Business Analyst: Business development, Pre-sales, Selection & Implementation of software solutions. * Quality Analyst: Implementation of enterprise level quality models, design / implementation of software development processes, testing and technical documentation.				
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	5
		II.Over and above the sanctioned intake	**a) Kashmiri Migrants (In Seats)**		**b) International Students (In Percentage)**	
			2		15	
5.	ELIGIBILITY	Graduate from any recognised University/ Institution of National Importance with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste / Scheduled Tribes).				
6.	SELECTION PROCEDURE	Symbiosis National Aptitude Test, Group Exercise, Personal Interaction and Writing Ability Test (GE-PIWAT)				
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**	

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	Indian Students	425000	20000	445000
	International Students (USD equivalent to INR)	640000	20000	660000

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 student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 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 corresponding to Grade P. 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 (Information Technology) will be awarded at the end of Semester IV examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10.00 CGPA
14.	**NATURE WISE DISTRIBUTION OF CREDITS**	

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	24	0	0	0	0	2*	24
2	14	2	17	0	0	0	33
3	14	0	17	0	0	1*	31
4	12	0	0	0	0	0	12
Total	**64**	**2**	**34**	**0**	**0**	**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 11/05/2021 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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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
T3114	0301410101	Object Oriented Analysis Design		4	120	80	200
T3115	0301410102	Relational Database Management System		4	120	80	200
T3117	0301410103	Software Engineering		4	120	80	200
T3071	0301410104	Basic Business Statistics for Data Analysis		2	60	40	100
T3198	0301410105	Introduction to Python		2	100	0	100
T3013	0301410106	Javascript		2	100	0	100
T3016	0301410107	PHP		2	60	40	100
T2225	0301410108	Research Methodology		2	60	40	100
T3321	0301410109	Web Development Framework		2	60	40	100
T4005	0301410110	Integrated Disaster Management *		0	0	0	Non Letter Grade
TH4272	0301410111	Certificate in COVID-19 Care for the Community *		0	0	0	Non Letter Grade
		Total		**24**	**800**	**400**	**1200**
Semester : 2							
Generic Core Courses							
T3078	0301410201	Principles and Practice of IT Enabled Management		3	90	60	150
T3462	0301410202	Cyber Security Analytics		3	150	0	150
T3070	0301410203	Advanced Business Statistics for Decision Making		2	60	40	100
T3076	0301410204	Enterprise Resource Planning		2	100	0	100
T2281	0301410205	Talent Acquisition		2	60	40	100
T3492	0301410206	Internet of Things		2	100	0	100
		Total		**14**	**560**	**140**	**700**
Generic Elective Courses Group							
T3350	0301410207	IT Business Analysis		2	60	40	100
TM2013	0301410208	Trends in Digital Communication Technologies Management		2	60	40	100
T3656	0301410209	AI and ML for Business Management		2	60	40	100
		Total Required Credits		**2**	**60**	**40**	**100**
Specialization Core Courses : Banking and Financial Markets							

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Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T2058	0301410210	Advanced Topics in Corporate Finance	Banking and Financial Markets	3	90	60	150
T3285	0301410211	Analysis of Business Case using Spreadsheets	Banking and Financial Markets	3	90	60	150
T3302	0301410212	IT Solutions to Banking and Financial Markets I	Banking and Financial Markets	3	90	60	150
T3508	0301410213	Asset Liability Management (ALM) in Finance	Banking and Financial Markets	3	90	60	150
T3501	0301410214	Python for Finance	Banking and Financial Markets	3	90	60	150
T2003	0301410215	Financial Accounting	Banking and Financial Markets	2	60	40	100
			Total	**17**	**510**	**340**	**850**

		Specialization Core Courses : Data Analytics					
T3072	0301410216	Business Intelligence I	Data Analytics	3	90	60	150
T3113	0301410217	Data Warehousing Architecture and Operations	Data Analytics	3	90	60	150
T3447	0301410218	Machine learning	Data Analytics	3	90	60	150
T3491	0301410219	Python for Analytics	Data Analytics	3	90	60	150
T3499	0301410220	Data Analysis Using Python	Data Analytics	3	90	60	150
T3539	0301410221	Relational Algebra and Calculus	Data Analytics	2	60	40	100
			Total	**17**	**510**	**340**	**850**

		Specialization Core Courses : IT Infrastructure Management					
T3221	0301410222	Introduction to Cloud Computing	IT Infrastructure Management	4	120	80	200
T3222	0301410223	Introduction to Vulnerability Assessment Penetration Testing	IT Infrastructure Management	4	120	80	200
T3062	0301410224	IT Service Management	IT Infrastructure Management	3	90	60	150
T3060	0301410225	IT Infrastructure Essentials	IT Infrastructure Management	2	60	40	100
T3061	0301410226	IT Infrastructure Library	IT Infrastructure Management	2	60	40	100
T3225	0301410227	Network Planning and Design	IT Infrastructure Management	2	60	40	100
			Total	**17**	**510**	**340**	**850**

		Specialization Core Courses : Marketing					

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Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T3075	0301410228	E-business Management and Strategy	Marketing	3	90	60	150
T2741	0301410229	Customer Relationship Management	Marketing	3	90	60	150
T2746	0301410230	Business Analytics for Marketing	Marketing	3	90	60	150
T2744	0301410231	Services Marketing	Marketing	3	90	60	150
T2742	0301410232	Digital Marketing	Marketing	3	90	60	150
T2821	0301410233	Marketing Metrics	Marketing	2	60	40	100
			Total	**17**	**510**	**340**	**850**
		Specialization Core Courses : Software Process Management					
T3300	0301410234	Software Quality Process and Assurance I	Software Process Management	3	90	60	150
T3298	0301410235	Software Quality Standards I	Software Process Management	3	90	60	150
T3124	0301410236	Software Verification and Validation	Software Process Management	3	90	60	150
T3495	0301410237	Product Management	Software Process Management	3	90	60	150
T3496	0301410238	Software Versioning	Software Process Management	3	90	60	150
T3312	0301410239	Project Management Suite	Software Process Management	2	60	40	100
			Total	**17**	**510**	**340**	**850**
		Semester : 3					
		Generic Core Courses					
T3155	0301410301	ERP-Business Process Integration		3	90	60	150
F0003	0301410302	Flexi-Credit Course		3	150	0	150
T3137	0301410303	Advanced Business Process Integration		2	60	40	100
T3249	0301410304	IT Tools and Techniques for Business		2	60	40	100
T3172	0301410305	IT-Governance		2	100	0	100
T3151	0301410306	Technology in Business		2	60	40	100
T0100	0301410307	Research Publication *		0	0	0	Non Letter Grade
			Total	**14**	**520**	**180**	**700**
		Specialization Core Courses : Banking and Financial Markets					

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Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T2067	0301410308	Credit management	Banking and Financial Markets	3	90	60	150
T3305	0301410309	Financial Services and Management	Banking and Financial Markets	3	90	60	150
T3303	0301410310	IT solutions to Banking and Financial Markets II	Banking and Financial Markets	3	90	60	150
T2048	0301410311	Mergers and Acquisitions	Banking and Financial Markets	3	90	60	150
T3500	0301410312	Mastering Python for Finance	Banking and Financial Markets	3	90	60	150
T2056	0301410313	Financial Risk Management	Banking and Financial Markets	2	60	40	100
			Total	**17**	**510**	**340**	**850**
		Specialization Core Courses : Data Analytics					
T3073	0301410314	Business Intelligence II	Data Analytics	3	90	60	150
T3112	0301410315	Data Warehousing Applications and Data Analysis	Data Analytics	3	90	60	150
T3440	0301410316	Fundamentals of Data Science	Data Analytics	3	90	60	150
T3441	0301410317	Web Analytics	Data Analytics	3	90	60	150
T3490	0301410318	Applied Data Analytics with Python	Data Analytics	3	90	60	150
T3398	0301410319	Mobile Analytics	Data Analytics	2	60	40	100
			Total	**17**	**510**	**340**	**850**
		Specialization Core Courses : IT Infrastructure Management					
T3063	0301410320	Data Centre Infrastructure Management	IT Infrastructure Management	3	90	60	150
T3050	0301410321	IS Risk Analysis and System Audit	IT Infrastructure Management	3	90	60	150
T3425	0301410322	Understanding LDAP	IT Infrastructure Management	3	90	60	150
T3418	0301410323	Advanced Vulnerability Assessment and Penetration Testing	IT Infrastructure Management	2	60	40	100
T3344	0301410324	DevOps	IT Infrastructure Management	2	60	40	100
T3055	0301410325	Information Security Management	IT Infrastructure Management	2	60	40	100
T3421	0301410326	Infrastructure Security	IT Infrastructure Management	2	60	40	100
			Total	**17**	**510**	**340**	**850**

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
**Specialization Core Courses : Marketing**
T2467	0301410327	Fundamentals of Brand Management	Marketing	3	90	60	150
T2614	0301410328	Integrated Marketing Communication	Marketing	3	90	60	150
T2615	0301410329	Marketing Strategy	Marketing	3	90	60	150
T2612	0301410330	Business Analytics for Marketing	Marketing	2	60	40	100
T2139	0301410331	Digital Marketing	Marketing	2	60	40	100
T2613	0301410332	Social Media Marketing	Marketing	2	60	40	100
T5518	0301410333	Advanced Communication Research Methods	Marketing	2	60	40	100
			Total	**17**	**510**	**340**	**850**

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
**Specialization Core Courses : Software Process Management**
T3086	0301410334	IT Strategy	Software Process Management	3	90	60	150
T3095	0301410335	Requirements Management	Software Process Management	3	90	60	150
T3301	0301410336	Software Quality Process and Assurance II	Software Process Management	3	90	60	150
T3299	0301410337	Software Quality Standards II	Software Process Management	3	90	60	150
T3497	0301410338	Application Packaging	Software Process Management	3	90	60	150
T2828	0301410339	Six Sigma	Software Process Management	2	60	40	100
			Total	**17**	**510**	**340**	**850**
**Semester : 4**
**Generic Core Courses**
T3912	0301410401	Industry Internship		12	360	240	600
			Total	**12**	**360**	**240**	**600**

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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Banking and Financial Markets				
Semester 1	4	20	24	1200
Semester 2	7	26	33	1650
Semester 3	5	26	31	1550
Semester 4	0	12	12	600
Total	**16**	**84**	**100**	**5000**
Data Analytics				
Semester 1	4	20	24	1200
Semester 2	7	26	33	1650
Semester 3	5	26	31	1550
Semester 4	0	12	12	600
Total	**16**	**84**	**100**	**5000**
IT Infrastructure Management				
Semester 1	4	20	24	1200
Semester 2	7	26	33	1650
Semester 3	5	26	31	1550
Semester 4	0	12	12	600
Total	**16**	**84**	**100**	**5000**
Marketing				
Semester 1	4	20	24	1200
Semester 2	7	26	33	1650
Semester 3	5	26	31	1550
Semester 4	0	12	12	600
Total	**16**	**84**	**100**	**5000**
Software Process Management				
Semester 1	4	20	24	1200
Semester 2	7	26	33	1650
Semester 3	5	26	31	1550
Semester 4	0	12	12	600
Total	**16**	**84**	**100**	**5000**