

**Symbiosis Institute of Computer Studies and Research, Pune**  
**Master of Business Administration (Information Technology)**  
**Programme Structure 2019-21**

<b>1. OBJECTIVE</b>	<p>To prepare students in applications of information technologies to deliver software solutions.</p> <p>The program focuses on</p> <ul style="list-style-type: none"> <li>* Imparting training in latest technologies.</li> <li>* Exposure to best business practices.</li> <li>* Building team leadership qualities and management skills</li> </ul> <p>As programme relates to current professional practice and the work place, the students are best suited for entry-level positions as:</p> <ul style="list-style-type: none"> <li>* Application Programmer: Using latest methodologies, development tools, languages.</li> <li>* Business Analyst: Business development, Pre-sales, Selection &amp; Implementation of software solutions.</li> <li>* Quality Analyst: Implementation of enterprise level quality models, design / implementation of software development processes, testing and technical documentation.</li> </ul>			
<b>2. DURATION (IN MONTHS)</b>	24 (Full Time)			
<b>3. INTAKE</b>	90			
<b>4. RESERVATION</b>	<b>I. Within the sanctioned intake</b>	<b>a) SC (In Percentage)</b>	<b>b) ST (In Percentage)</b>	<b>c) Differently abled (In Percentage)</b>
		15	7.5	3
	<b>II. Over and above the sanctioned intake</b>	<b>a) Kashmiri Migrants (In Seats)</b>		<b>b) International Students (In Percentage)</b>
		2		15
<b>5. ELIGIBILITY</b>	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).			
<b>6. SELECTION PROCEDURE</b>	Symbiosis National Aptitude Test, Group Exercise, Personal Interaction and Writing Ability Test (GE-PIWAT)			
<b>7. MEDIUM OF INSTRUCTION</b>	English			
<b>8. PROGRAMME PATTERN</b>	Semester			
<b>9. COURSE SPECIALIZATION</b>	As per Annexure A			
<b>10. FEE</b>		<b>Academic Fee p.a</b>	<b>Institute Deposit</b>	<b>Total</b>

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		<b>Indian Students</b>	405000	20000	425000
		<b>International Students (USD equivalent to INR)</b>	610000	20000	630000
<b>11.</b>	<b>ASSESSMENT</b>	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.			
<b>12.</b>	<b>STANDARD OF PASSING</b>	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.			
<b>13.</b>	<b>AWARD OF DEGREE</b>	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	1*	24
2	16	0	17	0	0	0	33
3	14	0	17	0	0	0	31
4	12	0	0	0	0	0	12
<b>Total</b>	<b>66</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>

\* Satisfactory completion of the letter grade course 'Integrated Disaster Management' is mandatory for award of degree.

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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**Annexure A**

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Credits	External Credits	Total Marks
<b>Semester : 1</b>							
<b>Generic Core Courses</b>							
T3012	030141101	Java SE		4	120	80	200
T3114	030141102	Object Oriented Analysis Design		4	120	80	200
T3117	030141103	Software Engineering		4	120	80	200
T3071	030141104	Basic Business Statistics for Data Analysis		2	60	40	100
T3198	030141105	Introduction to Python		2	100	0	100
T3433	030141106	Introduction to Relational Database Management		2	60	40	100
T3013	030141107	JavaScript		2	100	0	100
T3016	030141108	PHP		2	60	40	100
T3321	030141109	Web Development Framework		2	60	40	100
T4005	030141110	Integrated Disaster Management *		0	0	0	Letter Grade
<b>Total</b>				<b>24</b>	<b>800</b>	<b>400</b>	<b>1200</b>
<b>Semester : 2</b>							
<b>Generic Core Courses</b>							
T3078	030141201	Principles and Practice of IT Enabled Management		3	90	60	150
F0003	030141202	Flexi-Credit Course		3	150	0	150
T3070	030141203	Advanced Business Statistics for Decision Making		2	60	40	100
T3076	030141204	Enterprise Resource Planning		2	100	0	100
T3350	030141205	IT Business Analysis		2	60	40	100
T2281	030141206	Talent Acquisition		2	60	40	100
F0002	030141207	Flexi-Credit Course		2	100	0	100
<b>Total</b>				<b>16</b>	<b>620</b>	<b>180</b>	<b>800</b>
<b>Specialization Core Courses : Banking and Financial Markets</b>							
T2058	030141208	Advanced Topics in Corporate Finance	Banking and Financial Markets	3	90	60	150
T3285	030141209	Analysis of Business Case using Spreadsheets	Banking and Financial Markets	3	90	60	150
T3302	030141210	IT Solutions to Banking and Financial Markets I	Banking and Financial Markets	3	90	60	150
T3508	030141211	Asset Liability Management (ALM) in Finance	Banking and Financial Markets	3	90	60	150
T3501	030141212	Python for Finance	Banking and Financial Markets	3	90	60	150
T2003	030141213	Financial Accounting	Banking and Financial Markets	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : Data Analytics</b>							
T3072	030141214	Business Intelligence I	Data Analytics	3	90	60	150
T3113	030141215	Data Warehousing Architecture and Operations	Data Analytics	3	90	60	150
T3447	030141216	Machine learning	Data Analytics	3	90	60	150
T3491	030141217	Python for Analytics	Data Analytics	3	90	60	150
T3499	030141218	Data Analysis Using Python	Data Analytics	3	90	60	150
T3539	030141219	Relational Algebra and Calculus	Data Analytics	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : IT Infrastructure Management</b>							

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T3221	030141220	Introduction to Cloud Computing	IT Infrastructure Management	4	120	80	200
T3222	030141221	Introduction to Vulnerability Assessment Penetration Testing	IT Infrastructure Management	4	120	80	200
T3062	030141222	IT Service Management	IT Infrastructure Management	3	90	60	150
T3060	030141223	IT Infrastructure Essentials	IT Infrastructure Management	2	60	40	100
T3061	030141224	IT Infrastructure Library	IT Infrastructure Management	2	60	40	100
T3225	030141225	Network Planning and Design	IT Infrastructure Management	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : Marketing</b>							
T3075	030141226	E-business Management and Strategy	Marketing	3	90	60	150
T2741	030141227	Customer Relationship Management	Marketing	3	90	60	150
T2746	030141228	Business Analytics for Marketing	Marketing	3	90	60	150
T2744	030141229	Services Marketing	Marketing	3	90	60	150
T2742	030141230	Digital Marketing	Marketing	3	90	60	150
T2821	030141231	Marketing Metrics	Marketing	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : Software Process Management</b>							
T3300	030141232	Software Quality Process and Assurance I	Software Process Management	3	90	60	150
T3298	030141233	Software Quality Standards I	Software Process Management	3	90	60	150
T3124	030141234	Software Verification and Validation	Software Process Management	3	90	60	150
T3495	030141235	Product Management	Software Process Management	3	90	60	150
T3496	030141236	Software Versioning	Software Process Management	3	90	60	150
T3312	030141237	Project Management Suite	Software Process Management	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Semester : 3</b>							
<b>Generic Core Courses</b>							
T3155	030141301	ERP-Business Process Integration		3	90	60	150
F0003	030141302	Flexi-Credit Course		3	150	0	150
T3137	030141303	Advanced Business Process Integration		2	60	40	100
T3249	030141304	IT Tools and Techniques for Business		2	60	40	100
T3172	030141305	IT-Governance		2	100	0	100
T3151	030141306	Technology in Business		2	60	40	100
<b>Total</b>				<b>14</b>	<b>520</b>	<b>180</b>	<b>700</b>
<b>Specialization Core Courses : Banking and Financial Markets</b>							
T2067	030141307	Credit management	Banking and Financial Markets	3	90	60	150
T3305	030141308	Financial Services and Management	Banking and Financial Markets	3	90	60	150

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T3303	030141309	IT solutions to Banking and Financial Markets II	Banking and Financial Markets	3	90	60	150
T2048	030141310	Mergers and Acquisitions	Banking and Financial Markets	3	90	60	150
T3500	030141311	Mastering Python for Finance	Banking and Financial Markets	3	90	60	150
T2056	030141312	Financial Risk Management	Banking and Financial Markets	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : Data Analytics</b>							
T3073	030141313	Business Intelligence II	Data Analytics	3	90	60	150
T3112	030141314	Data Warehousing Applications and Data Analysis	Data Analytics	3	90	60	150
T3440	030141315	Fundamentals of Data Science	Data Analytics	3	90	60	150
T3441	030141316	Web Analytics	Data Analytics	3	90	60	150
T3490	030141317	Applied Data Analytics with Python	Data Analytics	3	90	60	150
T3398	030141318	Mobile Analytics	Data Analytics	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : IT Infrastructure Management</b>							
T3063	030141319	Data Centre Infrastructure Management	IT Infrastructure Management	3	90	60	150
T3050	030141320	IS Risk Analysis and System Audit	IT Infrastructure Management	3	90	60	150
T3425	030141321	Understanding LDAP	IT Infrastructure Management	3	90	60	150
T3418	030141322	Advanced Vulnerability Assessment and Penetration Testing	IT Infrastructure Management	2	60	40	100
T3344	030141323	DevOps	IT Infrastructure Management	2	60	40	100
T3055	030141324	Information Security Management	IT Infrastructure Management	2	60	40	100
T3421	030141325	Infrastructure Security	IT Infrastructure Management	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : Marketing</b>							
T2467	030141326	Fundamentals of Brand Management	Marketing	3	90	60	150
T2614	030141327	Integrated Marketing Communication	Marketing	3	90	60	150
T2615	030141328	Marketing Strategy	Marketing	3	90	60	150
T2612	030141329	Business Analytics for Marketing	Marketing	2	60	40	100
T2139	030141330	Digital Marketing	Marketing	2	60	40	100
T2613	030141331	Social Media Marketing	Marketing	2	60	40	100
T5518	030141332	Advanced Communication Research Methods	Marketing	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Specialization Core Courses : Software Process Management</b>							
T3086	030141333	IT Strategy	Software Process Management	3	90	60	150
T3095	030141334	Requirements Management	Software Process Management	3	90	60	150
T3301	030141335	Software Quality Process and Assurance II	Software Process Management	3	90	60	150

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T3299	030141336	Software Quality Standards II	Software Process Management	3	90	60	150
T3497	030141337	Application Packaging	Software Process Management	3	90	60	150
T2828	030141338	Six Sigma	Software Process Management	2	60	40	100
<b>Total</b>				<b>17</b>	<b>510</b>	<b>340</b>	<b>850</b>
<b>Semester : 4</b>							
<b>Generic Core Courses</b>							
T3912	030141401	Industry Internship		12	360	240	600
<b>Total</b>				<b>12</b>	<b>360</b>	<b>240</b>	<b>600</b>

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Semester	Internal Credits	External Credits	Total Credits	Total Marks
<b>Banking and Financial Markets</b>				
Semester1	4	20	24	1200
Semester2	7	26	33	1650
Semester3	5	26	31	1550
Semester4	0	12	12	600
<b>Total</b>	<b>16</b>	<b>84</b>	<b>100</b>	<b>5000</b>
<b>Data Analytics</b>				
Semester1	4	20	24	1200
Semester2	7	26	33	1650
Semester3	5	26	31	1550
Semester4	0	12	12	600
<b>Total</b>	<b>16</b>	<b>84</b>	<b>100</b>	<b>5000</b>
<b>IT Infrastructure Management</b>				
Semester1	4	20	24	1200
Semester2	7	26	33	1650
Semester3	5	26	31	1550
Semester4	0	12	12	600
<b>Total</b>	<b>16</b>	<b>84</b>	<b>100</b>	<b>5000</b>
<b>Marketing</b>				
Semester1	4	20	24	1200
Semester2	7	26	33	1650
Semester3	5	26	31	1550
Semester4	0	12	12	600
<b>Total</b>	<b>16</b>	<b>84</b>	<b>100</b>	<b>5000</b>
<b>Software Process Management</b>				
Semester1	4	20	24	1200
Semester2	7	26	33	1650
Semester3	5	26	31	1550
Semester4	0	12	12	600
<b>Total</b>	<b>16</b>	<b>84</b>	<b>100</b>	<b>5000</b>