



**Symbiosis Institute of Geoinformatics, Pune**  
**Master of Science (Geoinformatics)**  
**Programme Structure 2022-24**

1.	<b>OBJECTIVE</b>	To create the professional human resource in the field of Geospatial Technology; equipped with IT and information management skills to cater to the global Geo-Informatics industry requirements.			
2.	<b>DURATION (IN MONTHS)</b>	24 (Full Time)			
3.	<b>INTAKE</b>	60			
4.	<b>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	
5.	<b>ELIGIBILITY</b>	Graduate in Engineering, IT, Science, Computer Science, Agriculture, Geography, Commerce and Management 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.	<b>SELECTION PROCEDURE</b>	Personal Interaction and Writing Ability Test			
7.	<b>MEDIUM OF INSTRUCTION</b>	English			
8.	<b>PROGRAMME PATTERN</b>	Semester			
9.	<b>COURSE &amp; SPECIALIZATION</b>	As per Annexure A			
10.	<b>FEE</b>		<b>Academic Fee p.a</b>	<b>Institute Deposit</b>	<b>Total</b>
		<b>Indian Students</b>	250000	20000	270000
		<b>International Students (USD equivalent to INR)</b>	375000	20000	395000
11.	<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] exam			
12.	<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					
13.	<b>AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE</b>	Master of Science (Geoinformatics) 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 CGPA.					
14.	<b>CLASSIFICATION OF CREDITS</b>						
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	20	0	0	0	0	1*	20
2	23	0	0	0	0	0	23
3	21	4	0	0	0	1*	25
4	12	0	0	0	0	0	12
<b>Total</b>	<b>76</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80</b>
* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management', 'Research Publication' is mandatory for award of degree.							

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
<b>Semester : 1</b>							
<b>Generic Core Courses</b>							
TE7147	0702410101	Principles of GIS		4	120	80	200
TE7148	0702410102	Principles of Remote Sensing		4	120	80	200
T7174	0702410103	Applied Statistics		3	90	60	150
TE7475	0702410104	Python for Geospatial Technology		3	90	60	150
T7175	0702410105	Computer Fundamental and Cyber security		2	60	40	100
T7370	0702410106	Research Methodology in GIS		2	100	0	100
T7053	0702410107	Surveying & Cartography		2	60	40	100
T4005	0702410108	Integrated Disaster Management *		0	0	0	Non Letter Grade
<b>Total</b>				<b>20</b>	<b>640</b>	<b>360</b>	<b>1000</b>
<b>Semester : 2</b>							
<b>Generic Core Courses</b>							
TE7149	0702410201	Geo Image Processing		4	120	80	200
TE7397	0702410202	Photogrammetry		4	120	80	200
TE7440	0702410203	Advance Python Programming for Spatial Analytics		3	90	60	150
T3010	0702410204	Essentials of Internet and Web Technologies		2	60	40	100
T7041	0702410205	Global Navigation Satellite System		2	60	40	100
T7161	0702410206	Principles of Database Management System		2	60	40	100
T7163	0702410207	Spatial Analysis		2	60	40	100
TE7152	0702410208	R for Spatial Science		2	60	40	100
TE7474	0702410209	Programming for Enterprise GIS		2	60	40	100
<b>Total</b>				<b>23</b>	<b>690</b>	<b>460</b>	<b>1150</b>
<b>Semester : 3</b>							
<b>Generic Core Courses</b>							
T7804	0702410301	Summer Project		4	120	80	200
T7165	0702410302	GIS Application Design		2	60	40	100
T7168	0702410303	GIS Project Management		2	60	40	100
T2573	0702410304	Organizational Behaviour		2	60	40	100
T2239	0702410305	Business Communication		2	100	0	100
T7167	0702410306	Spatial Modeling		2	60	40	100
T7049	0702410307	Spatial Data Base Management		2	60	40	100
F0002	0702410308	Flexi-Credit Course		2	100	0	100
TE7151	0702410309	Web GIS		2	60	40	100
F0001	0702410310	Flexi-Credit Course		1	50	0	50
T0100	0702410311	Research Publication *		0	0	0	Non Letter Grade
<b>Total</b>				<b>21</b>	<b>730</b>	<b>320</b>	<b>1050</b>
<b>Generic Elective Courses Group-I</b>							
T7169	0702410312	Mobile GIS		2	100	0	100
T7039	0702410313	Geoinformatics Applications in Natural Resource Management		2	100	0	100
TE7158	0702410314	Geoinformatics applications in Facility and Utility management		2	100	0	100
<b>Total Required Credits</b>				<b>2</b>	<b>100</b>	<b>0</b>	<b>100</b>
<b>Generic Elective Courses Group-II</b>							
TE7150	0702410315	Geospatial Application in Agriculture		2	100	0	100
TE7527	0702410316	Application of Geospatial Technology in Urban Development		2	100	0	100
T7156	0702410317	Disaster Scenario mapping		2	100	0	100
<b>Total Required Credits</b>				<b>2</b>	<b>100</b>	<b>0</b>	<b>100</b>
<b>Semester : 4</b>							
<b>Generic Core Courses</b>							
T7812	0702410401	Industry Project		12	360	240	600
<b>Total</b>				<b>12</b>	<b>360</b>	<b>240</b>	<b>600</b>



Celebrating 50 Years of Excellence

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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	2	18	20	1000
Semester 2	0	23	23	1150
Semester 3	9	16	25	1250
Semester 4	0	12	12	600
<b>Total</b>	<b>11</b>	<b>69</b>	<b>80</b>	<b>4000</b>