Symbiosis Institute of Geoinformatics, Pune
Master of Science (Geoinformatics)
Programme Structure 2024-26

1.	**OBJECTIVE**	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.	**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)**
			15	7.5	3
		II.Over and above the sanctioned intake	**a) Kashmiri Migrants (In Seats)**	**b) International Students (In Percentage)**	
			2	20	
5.	**ELIGIBILITY**	Graduate in Engineering, IT, Science, Computer Science, Agriculture, Geography, Planning, Architecture, 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.	**SELECTION PROCEDURE**	Personal Interaction and Writing Ability Test			
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**
	Indian Students (Amount in INR)		281000	20000	301000
	International Students	**NRI/ PIO/ OCI Category (Amount in US$)**	5400	275	5675
		Foreign National Category (Amount in US$)	1950	275	2225
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] exam			
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**	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. CLASSIFICATION OF CREDITS

Semester	Generic Core	Generic Elective	Specialisa-tion Core	Specialisa-tion Elective	Open Elective	Mandatory Non-Credit Course/s	Non-Letter Grade Audit Course/s	Total
Common								
1	21	0	0	0	0	0	As per the student's choice	21
2	23	0	0	0	0	2		23
3	20	4	0	0	0	0		24
4	12	0	0	0	0	0		12
Total	**76**	**4**	**0**	**0**	**0**	**0**		**80**

The revised programme structure supersedes the previously approved programme structure dated 20/08/2024 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							
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
TE7928	0702410104	Global Navigation Satellite Systems		3	90	60	150
TE7475	0702410105	Python for Geospatial Technology		3	90	60	150
T7175	0702410106	Computer Fundamental and Cyber security		2	60	40	100
T7370	0702410107	Research Methodology in GIS		2	100	0	100
			Total	**21**	**670**	**380**	**1050**
Semester : 2							
Generic Core Courses							
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
F7081	0702410205	Python for Geospatial Data Analysis		2	100	0	100
T7161	0702410206	Principles of Database Management System		2	60	40	100
TE7474	0702410207	Programming for Enterprise GIS		2	60	40	100
TE7152	0702410208	R for Spatial Science		2	60	40	100
T7163	0702410209	Spatial Analysis		2	60	40	100
TH4788	0702410210	Health and Wellness Module I		0	0	0	Mandatory Non-Credit Course
TH4789	0702410211	Health and Wellness Module II		0	0	0	Mandatory Non-Credit Course
			Total	**23**	**730**	**420**	**1150**
Semester : 3							
Generic Core Courses							
T7804	0702410301	Summer Project		4	120	80	200
T2239	0702410302	Business Communication		2	100	0	100
F0002	0702410303	Flexi-Credit Course		2	100	0	100

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Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Continuous Assessment	Term End Examination	Total Marks
T7165	0702410304	GIS Application Design		2	60	40	100
T7168	0702410305	GIS Project Management		2	60	40	100
T2573	0702410306	Organizational Behaviour		2	60	40	100
T7049	0702410307	Spatial Data Base Management		2	60	40	100
T7167	0702410308	Spatial Modeling		2	60	40	100
TE7151	0702410309	Web GIS		2	60	40	100
			Total	**20**	**680**	**320**	**1000**
Generic Elective Course Group - I (Choose any one course)							
TE7158	0702410310	Geoinformatics applications in Facility and Utility management		2	100	0	100
T7039	0702410311	Geoinformatics Applications in Natural Resource Management		2	100	0	100
T7169	0702410312	Mobile GIS		2	100	0	100
			Total Required Credits	**2**	**100**	**0**	**100**
Generic Elective Course Group-II (Choose any one course)							
TE7527	0702410313	Application of Geospatial Technology in Urban Development		2	100	0	100
T7156	0702410314	Disaster Scenario mapping		2	100	0	100
TE7150	0702410315	Geospatial Application in Agriculture		2	100	0	100
			Total Required Credits	**2**	**100**	**0**	**100**
Semester : 4							
Generic Core Courses							
T7812	0702410401	Industry Project		12	360	240	600
			Total	**12**	**360**	**240**	**600**

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Semester	Continuous Assessment	Term End Examination	Total Credits	Total Marks
Semester 1	2	19	21	1050
Semester 2	2	21	23	1150
Semester 3	8	16	24	1200
Semester 4	0	12	12	600
Total	**12**	**68**	**80**	**4000**