Name of the Institute: Symbiosis Institute of Technology
Name of the Programme: M.Tech (Geoinformatics & Surveying Technology)

Revision of Syllabus

nstitute Code	Institute Name	Progra mme Code	Program Name	Catalog Course Code	Catalog Course Name	Course Type	Batch 2020	Batch 2021	T-Code	Change in course/Na ture	Change in evaluation	THE REAL PROPERTY OF THE PARTY	Add on course	Changes Yes: Revised No: Not Revised
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	F7024	Smart Mapping	Core	Base PS	Dropped	Yes					Yes
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	F7025	Research Paper Writing	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	F7041	F7041	Core		Added	Yes				Yes	Yes
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	GEN004	Dissertation	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	GEN005	Non Catalog Courses	Core	Base PS	Dropped	Yes					Yes
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T0100	Research Publication	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T4005	Integrated Disaster Management	Core	Base PS	No Change	No				*	No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T7029	Digital Photogrammetry	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T7031	Fundamentals of Geographic Information Systems	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T7032	Fundamentals of Geographic Information Systems Lab	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T7033	Fundamentals of Remote Sensing	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T7034	Fundamentals of Remote Sensing Lab	Core	Base PS	No Change	No					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and Surveying Technology)	T7037	Geoinformatics Applications in Human Settlement	Elective	Base PS	No Change	No					No
70:	L SIT, Pune	70146	6 M.Tech. (Geoinformatics and Surveying Technology)	T7039	Geoinformatics Applications in Natural Resource Management	Elective	Base PS	No Change	No					No

	SIT, Pune	70140	M.Tech. (Geoinformatics and Surveying Technology)	T7041	Global Navigation Satellite System	Core	Base PS		No				No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7042	Global Navigation Satellite		-	Change					
			Surveying Technology)	1	System Lab	Core	Base PS	100000	No				No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7045		-	-	Change					
			Surveying Technology)	17045	Land Surveying	Elective	Base PS	No	No				No
701	SIT, Pune	70146		-				Change					
,01	ori, rune	70140	M.Tech. (Geoinformatics and	T7049	Spatial Data Base Management	Core	Base PS	No	No				No
701	CIT D		Surveying Technology)					Change					INC
/01	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7050	Spatial Data Base Management	Core	Base PS	No	No			_	
			Surveying Technology)		Lab			Change					No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7051	Spatial Modeling & Analysis	Core	Base PS	No	N:				
11/			Surveying Technology)		The state of the s	Core	base P3		No				No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7052	Spatial Modeling 8 A L. : L.			Change					
			Surveying Technology)	17032	Spatial Modeling & Analysis Lab	Core	Base PS	No	No				No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	77050				Change					
, 01	Sir, rune	70140		T7053	Surveying & Cartography	Core	Base PS	No	No				No
701	CIT D		Surveying Technology)					Change			- 1	1 1	INC
/01	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7057	Advanced Databases	Core	Base PS	No	No		_	_	
			Surveying Technology)	1				Change	1.0		- 1		No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7081	Web GIS and Application	Core	Base PS	No	N	_			
			Surveying Technology)		Design	Core	Dase PS		No				No
701	SIT, Pune		M.Tech. (Geoinformatics and	T7082	Web GIS and Application	0		Change					
			Surveying Technology)	17002		Core	Base PS	No	No				No
701	SIT, Pune		M.Tech. (Geoinformatics and	77000	Design Lab			Change					
				T7092	Digital Image Processing in GIS	Core	Base PS	Dropped	Yes				Ye
701	SIT, Pune		Surveying Technology)									1 1	116.
/01	SII, Pune		M.Tech. (Geoinformatics and	T7094	Digital Image Processing Lab	Core	Base PS	Dropped	Yes		_	+	· ·
-			Surveying Technology)									1 1	Ye:
/01	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7174	Applied Statistics	Core	Base PS	No	No		_		
			Surveying Technology)				busers	Change	NO			1 1	No
701	SIT, Pune	70146	M.Tech. (Geoinformatics and	T7187	GIS for Health Care	Elective	Dana DC						
			Surveying Technology)		Management	ciective	Base PS	No	No		1		No
01	SIT, Pune			T7370	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT			Change				1 1	
- 1			Surveying Technology)	17370	Research Methodology in GIS	Core	Base PS	No	No				No
01	SIT, Pune	70146						Change					1
71	ori, rune			T7674	Cyber Security	Core	Base PS	No	No			+ +	N.
101	CIT D		Surveying Technology)					Change					No
UI	SIT, Pune			TE7150	Geospatial Application in	Elective		No	No		+	+	
_			Surveying Technology)		Agriculture		557500000000000000000000000000000000000	Change					No
01	SIT, Pune	70146	M.Tech. (Geoinformatics and	TE7156	Digital Photogrammetry Lab	Core	Base PS						
			Surveying Technology)		g. a Hotogrammetry Lab	COLE			No			I	No
-	The state of the s		. 0			1.0		Change				1 1	

701 SIT, Pune	M.Tech. (Geoinformatics and Surveying Technology)	TE7158	Geoinformatics Applications in Facility and Utility Management	Elective	Base PS	No Change	No				No
701 SIT, Pune	M.Tech. (Geoinformatics and Surveying Technology)	TE7245	Artificial Intelligence	Core	Base PS	Dropped	Yes				Yes
701 SIT, Pune	 M.Tech. (Geoinformatics and Surveying Technology)	TE7440	Advance Python Programming for Spatial Analytics	Core	Base PS	No Change	No				No
701 SIT, Pune	M.Tech. (Geoinformatics and Surveying Technology)	TE7475	Python for Geospatial Technology	Core	Base PS	No Change	No				No
701 SIT, Pune	M.Tech. (Geoinformatics and Surveying Technology)	TE7528	Digital Image Processing In RS	Core		Added	Yes			Yes	Yes
701 SIT, Pune	 M.Tech. (Geoinformatics and Surveying Technology)	TE7661	Digital Image Processing In RS Lab	Core		Added	Yes			Yes	Yes
701 SIT, Pune	M.Tech. (Geoinformatics and Surveying Technology)	TH4272	Certificate in COVID-19 Care for the Community	Core		Added	Yes			Yes	Yes

Total No. of courses

40

Revision in No. of courses

9 22.5

Revision %

Vidhhya Dr. Vidya Patkar Pepaty Director, SIG



Symbiosis International (Deemed University)

 $(Established\ under\ section\ 3\ of\ the\ UGC\ Act,\ 1956\ vide\ notification\ No.\ F.9-12/2001-U3\ Govt.\ of\ India)$

Re-accredited by NAAC with 'A' grade

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

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

Name of the Institute: Symbiosis Institute of Technology

Name of the Programme: M.Tech (Geoinformatics & Surveying Technology)

Academic Year	Particulars	Page Numbers
2021-2022	Revision Letter	5-6
2020-2021	Revision Letter	7
	Circular of CBCS	8
2021-2022	Approved programme structure	9-14
2020-2021	Approved programme structure	15-19



Gauri Deshpande <gauri.deshpande@sig.ac.in>

Fwd: Revised Programme Structure of M.Tech (G&ST) batch 2020-22

1 message

Dr. Vidya Patkar <deputydirector@sig.ac.in>

To: Gauri Deshpande <gauri.deshpande@sig.ac.in>

Thu, Feb 9, 2023 at 10:20 AM

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

From: DyDirector Academics <dydirectoracademics@sitpune.edu.in>

Date: Thu, Feb 9, 2023 at 10:22 AM

Subject: Fwd: Revised Programme Structure of M.Tech (G&ST) batch 2020-22

To: Dr. Vidya Patkar <deputydirector@sig.ac.in>

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

From: Dr K Kotecha <director@sitpune.edu.in>

Date: Thu, Feb 9, 2023 at 10:19 AM

Subject: Fwd: Revised Programme Structure of M.Tech (G&ST) batch 2020-22

To: DyDirector Academics <dydirectoracademics@sitpune.edu.in>

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

From: Dr. Pravin Dange <head_academics@siu.edu.in>

Date: Sat, May 22, 2021 at 5:56 PM

Subject: Revised Programme Structure of M.Tech (G&ST) batch 2020-22

To: Tejinder Paul Singh director@sig.ac.in > To: Tejinder Paul Singh director@sig.ac.in

Cc: Dr. Vipin Joshi <ar academics@siu.edu.in>, coe siu <coe@siu.edu.in>

Dear Sir/Madam,

The programme structure of Master of Technology (Geoinformatics and Surveying Technology) batch 2020-22 has been revised in the Eduwiz system.

The revision details are as follows:

Name of the Constituent: SIT

1. Programme Name-Master of Technology (Geoinformatics and Surveying

Technology)

Revision No - 03

Revision in Semester - 3

You are requested to download the latest approved program structure from the system.

If you have any queries, please feel free to contact me.

Regards

--

Dr. Pravin Dange

Head-Academics

Symbiosis International (Deemed University)

Lavale, Pune 412115, Maharashtra, India

Phone: +91-20-3911 6211 (Direct)

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K Kotecha, PhD(IIT Bombay)
Director, Symbiosis Institute of Technology (sitpune.edu.in)
Dean, Faculty of Engineering (siu.edu.in)
Head, Symbiosis Centre for Applied Artificial Intelligence(scaai.edu.in)
Symbiosis International (Deemed University), Pune 412115
Maharashtra, India



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

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

SIU/U-110(SIT, Pune)/2021/74

Date: 07/01/2021

Tο

The Director

Symbiosis Institute of Technology, Pune

Subject: Revised Programme Structure.

Dear Sir/Madam,

Reference to SIU letter no SIU/U-110(SIT, Pune)/2020/2459 (A) dated 31/07/2021 regarding approval of programme structure of batch 2020-2021. The details of the revision are as follows:

Academic Year: 2020-2021

Sr.No.	Programme	Batch
1	Master of Technology (Geoinformatics and Surveying	2020-2021

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

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

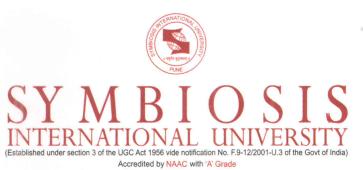
Path: Academics->Catalogue->Programme Structure-> View Course Structure -> Select Institute -> Select Academic Year -> Select Programme -> Select Batch -> Select Revision-> Show Course Structure -> Print Programme Structure.

Thanking you.

Sincerely,

Dr. Pravin Dange Head-Academics

Copy to: Controller of Examinations, SIU



FOUNDER: PROF. DR. S. B. MUJUMDAR M.Sc. Ph.D. (Awarded Padma Bhushan by President of India)

Notification No.SIU/28/565 dated 13 July 2015

Sub: Implementation of Choice Base Credit System from Academic year 2015-16

It is hereby notified for the information of all the concerned that as proposed by University Grant Commission vide letter D.O.No. F.1-1 (Secy) dated 12th November 2014, the Board of Management of Symbiosis International University in its meeting held on 25th February 2015 vide resolution no. A 15 has resolved to adopt the Choice Base Credit System (CBCS) to all programmes offered by Symbiosis International University in its Constituents / Departments from the academic year 2015- 16.

As per CBCS, grade point will be allotted to each letter grade on a 10 point grade scale with grades denoted by letters O, A+, A, B+, B, C, P, F and AB.

Letter Grade	Proportion	Grade Point
O (Outstanding)	Top 3%	10
A+ (Excellent)	12%	9
A (Very Good)	21%	8
B+ (Good)	28%	7
B (Above Average)	21%	6
C (Average)	12%	5
P (Pass)	Bottom 3%	4
F (Fail)		0
AB (Absent)		0

Standard of Passing: A student has to pass both Internal and External Examination separately i.e. obtain minimum Grade Point of 4.00. A Grade Point less than 4.00 will be treated as Grade 'F'.

The Programme structure of all the programmes of academic year 2015 -16 shall have the assessment, slandered of passing and award of degree as per the above grading pattern.

SIU/28/15/ 3 50 8 Dated: 13 July 2015 Dr. S. C. Nerkar Registrar

Copy for information to:-

Hon'ble Chancellor, Vice Chancellor, Principal Director, Symbiosis Society, Sr. Advisor to Vice Chancellor, Directors of Constituents and Departments of SIU, Officers of Symbiosis International University, Officers of Symbiosis Society.



1.	OBJECTIVE	To generate compete Surveying Technolo To inculcate among the furthering of kno	gy. the students an a	ptitude	for engineer						
2.	DURATION (IN MONTHS)	24 (Full Time)									
3.	INTAKE	18									
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage) c) Differently abl (In Percentage)							
			15	7.5							
		II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	Kashmiri Migrants b) International Students (In Percentage)							
			2 15								
5.	ELIGIBILITY	Geology, M.Sc. Envequivalent from any a minimum of 50%	Engineering Graduate (BE/B.Tech), M.Sc. Geoinformatics, M.Sc. Physics, M.Sc. Geology, M.Sc. Environmental Science, M.Sc. Mathematics, M.Sc. Agriculture or equivalent from any recognized 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	GATE score or Entrance Test for non-GATE candidates									
7.	MEDIUM OF INSTRUCTION	English									
8.	PROGRAMME PATTERN	Semester									
9.	COURSE & SPECIALIZATION	As per Annexure A									
10.	FEE		Academic Fee p.	a Ir	stitute Depo	sit	Total				
		Indian Students	260000		20000		280000				
		International Students (USD equivalent to INR)	390000		20000		410000				
11.	ASSESSMENT	_	xternal courses will and [University] exam	have 60 minatio)% internal con.	ompon	ent and 40%				
12.	STANDARD OF PASSING	performance. Maxin For all courses, a stu separately with a mi	component as external [University] examination. The assessment of students for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10corresponding 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								

WAA WAA

M_{-1} $= fT_{-1}$ $= 1$ $= (C_{-1})$ $= f$ $= 1$ $= 1$ $= 1$ $= 1$	has achieved a mme.
13. AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE Master of Technology (Geoinformatics and Surveying Technology awarded at the end of semester IV examination by taking into cons performance of all semester examinations after obtaining minimum of 10 CGPA.	sideration the

14. CLASSIFICATION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	24	0	0	0	0	1*	24
2	24	4	0	0	0	1*	28
3	14	0	0	0	0	1*	14
4	14	0	0	0	0	0	14
Total	76	4	0	0	0	0	80

^{*} 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 12/03/2022 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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Catalog Course	Course	Course Title	Nature		achir hem		Prac	tical	Exami Scheme		Total Credi	Total
Code	Code	Sourse Trac	Nataro	L	т	La b	CA	ESE	CA	ESE	ts	lotai
		S	emester	· : 1								
		Gener	ic Core		es							
T7174	0701460101	Applied Statistics	MC	3	0	0	0	0	90	60	3	150
T7033	0701460102	Fundamentals of Remote Sensing	MC	3	0	0	0	0	90	60	3	150
TE7475	0701460103	Python for Geospatial Technology	МС	3	0	0	0	0	90	60	3	150
T7029	0701460104	Digital Photogrammetry	MC	2	0	0	0	0	100	0	2	100
T7031	0701460105	Fundamentals of Geographic Information Systems	МС	2	0	0	0	0	60	40	2	100
T7041	0701460106	Global Navigation Satellite System	MC	2	0	0	0	0	60	40	2	100
T7370	0701460107	Research Methodology in GIS	MC	2	0	0	0	0	60	40	2	100
T7053	0701460108	Surveying & Cartography	MC	2	0	0	0	0	60	40	2	100
TE7156	0701460109	Digital Photogrammetry Lab	MC	0	0	2	100	0	0	0	2	100
T7032	0701460110	Fundamentals of Geographic Information Systems Lab	МС	0	0	1	50	0	0	0	1	50
T7034	0701460111	Fundamentals of Remote Sensing Lab	MC	0	0	1	50	0	0	0	1	50
T7042	0701460112	Global Navigation Satellite System Lab	MC	0	0	1	50	0	0	0	1	50
TH4272	0701460113	Certificate in COVID-19 Care for the Community *		0	0	0	0	0	0	0	Non Letter Grade	0
	_	Total		19	0	5	250	0	610	340	24	1200
		S	emester	: 2							•	
		Gener	ic Core	Cours	es							
T7057	0701460201	Advanced Databases	MC	3	0	0	0	0	90	60	3	150
T7051	0701460202	Spatial Modeling & Analysis	MC	3	0	0	0	0	90	60	3	150
TE7440	0701460203	Advance Python Programming for Spatial Analytics	МС	3	0	0	0	0	90	60	3	150
TE7528	0701460204	Digital Image Processing In RS	MC	<mark>3</mark>	0	0	0	0	<mark>90</mark>	<mark>60</mark>	<mark>3</mark>	<mark>150</mark>
T7049	0701460205	ı	MC	2	0	0	0	0	60	40	2	100
T7081	0701460206	Web GIS and Application Design	МС	2	0	0	0	0	60	40	2	100
T7674	0701460207	Cyber Security	MC	2	0	0	0	0	100	0	2	100
F7041	0701460208	Citizen Science and Geospatial Technology	MC	2	0	0	0	0	100	0	2	<mark>100</mark>
T7050	0701460209	Spatial Data Base Management Lab	МС	0	0	1	50	0	0	0	1	50





Catalog Course	Course	Course Title	Nature		chir hem		Prac	ctical	Exami Scheme		Total Credi	Total
Code	Code			L	т	La b	CA	ESE	CA	ESE	ts	
T7052	0701460210	Spatial Modeling & Analysis	MC	0	0	1	50	0	0	0	1	50
T7082	0701460211	Web GIS and Application Design Lab	МС	0	0	1	50	0	0	0	1	50
TE7661	0701460212	Digital Image Processing In RS Lab	MC	0	0	1	<mark>50</mark>	0	0	0	1	<mark>50</mark>
T4005	0701460213	Integrated Disaster Management *		0	0	0	0	0	0	0	Non Letter Grade	0
		Total		20	0	4	200	0	680	320	24	1200
		Generic Elec	ctive Co	urses	Gro	up- l						
T7039	0701460214	Geoinformatics Applications in Natural Resource Management	PE	2	0	0	0	0	100	0	2	100
T7037	0701460215	Geoinformatics Applications in Human Settlement	PE	2	0	0	0	0	100	0	2	100
T7045	0701460216	Land Surveying	PE	2	0	0	0	0	100	0	2	100
		Tota	ıl Requir	ed Cr	edit	S	0	0	100	0	2	100
		Generic Elec	ctive Co	urses	Gro	up-I						
T7187	0701460217	GIS for Health Care Management	PE	2	0	0	0	0	100	0	2	100
TE7150	0701460218	Geospatial Application in Agriculture	PE	2	0	0	0	0	100	0	2	100
TE7158	0701460219	Geoinformatics applications in Facility and Utility management	PE	2	0	0	0	0	100	0	2	100
		Tota	ıl Requir	ed Cr	edit	S	0	0	100	0	2	100
		S	emester	· : 3								
		Gener	ic Core	Cours	es							
TE7710	0701460301	Dissertation Phase 1	PIS	0	0	10	0	0	300	200	10	500
T3509		Artificial Intelligence	PC	3	0	0	0	0	150	0	3	150
F7025	0701460303	Research Paper Writing	PC	1	0	0	0	0	50	0	1	50
T0100	0701460304	Research Publication *		0	0	0	0	0	0	0	Non Letter Grade	0
		Total		4	0	10	0	0	500	200	14	700
			emester									
	r		ic Core	Cours		•	1	1			T	
TE7714	0701460401	Dissertation Phase 2	PIS	0	0	14	0	0	420	280	14	700
		Total		0	0	14	0	0	420	280	14	700





Annexure A

Abbreviations (Nature)

BS Basic Sciences

ES Engineering Sciences

HS Humanities and Social Sciences

OE Open Electives
PC Professional Core
PE Professional Elective

PIS Project, Internship, Seminar

PD Professional Development Course

MC Mandatory Course

L Lecture T Tutorial

CA Continuous Assessment ESE End Semester Examination





Semester	Internal Credits	External Credits	Total Credits	Total Marks
	•			
Semester 1	7	17	24	1200
Semester 2	12	16	28	1400
Semester 3	4	10	14	700
Semester 4	0	14	14	700
Total	23	57	80	4000





elebrati	ng 50 Years of Excellence											
1.	OBJECTIVE	To generate competent manpower in the emerging areas of Geoinformatics and Surveying Technology. To inculcate among the students an aptitude for engineering and research for the furthering of knowledge in the chosen field.										
2.	DURATION (IN MONTHS)	24 (Full Time)										
3.	INTAKE	18										
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)		c) Differently abled (In Percentage)						
			15		7.5		3					
		b) Internati (In Percent	ional Students tage)									
			2			15	15					
5.	ELIGIBILITY	Engineering Graduate (BE/B. Tech), M.Sc. Geoinformatics, M.Sc. Physics, M.Sc. Geology, M.Sc. Environmental Science, M.Sc. Mathematics, M.Sc. Agriculture or equivalent from any recognized University/ Institution of National Importance with a minimum of 50% marks or equivalent grade (45% or equivalent grade for Scheduled Castes/ Scheduled Tribes)										
6.	SELECTION PROCEDURE	GATE score or Entrance Test for non-GATE candidates										
7.	MEDIUM OF INSTRUCTION	English										
8.	PROGRAMME PATTERN	Semester										
9.	COURSE & SPECIALIZATION	As per Annexure A										
10.	FEE		Academic Fee p.a	a In	stitute Depo	sit	Total					
		Indian Students	260000		20000		280000					
		International Students (USD 390000 20000 410000 equivalent to INR)										
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 students for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10corresponding 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										

21/05/2021 (R-03)

		declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10CGPA for the programme.
13.	DIPLOMA/	Master of Technology (Geo-informatics and Surveying 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 CGPA.

14. NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	21	0	0	0	0	0	21
2	27	4	0	0	0	1*	31
3	14	0	0	0	0	1*	14
4	14	0	0	0	0	0	14
Total	76	4	0	0	0	0	80

^{*} Satisfactory completion of the non letter grade courses 'Integrated Disaster Management' and 'Research Publication' is mandatory for award of degree.

The revised programme structure supersedes the previously approved programme structure dated 07/01/2021 for the programme.



Catalog Course	Course	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credi	Total
Code	Code	Godies Hile	Nataro	L	Т	La b	СА	ESE	CA	ESE	ts	. Otal
	Semester : 1 Generic Core Courses											
T7474	0704400404								00	00	T 2	450
T7174	0701460101	Applied Statistics	MC	45	0	0	0	0	90	60	3	150
T7033	0701460102	Fundamentals of Remote Sensing	MC	45	0	0	0	0	90	60	3	150
TE7475	0701460103	Python for Geospatial Technology	MC	45	0	0	0	0	90	60	3	150
T7029	0701460104	Digital Photogrammetry	MC	30	0	0	0	0	100	0	2	100
T7031	0701460105	Fundamentals of Geographic Information Systems	MC	30	0	0	0	0	60	40	2	100
T7041	0701460106	Global Navigation Satellite System	МС	30	0	0	0	0	60	40	2	100
T7370	0701460107	Research Methodology in GIS	MC	30	0	0	0	0	60	40	2	100
T7053	0701460108	Surveying & Cartography	MC	30	0	0	0	0	60	40	2	100
T7674	0701460109	Cyber Security	MC	0	0	60	0	0	100	0	2	100
		Total		285	0	60	0	0	710	340	21	1050
		S	emester	: 2								
		Gener	ic Core	Cours	es					_	_	
T7057	0701460201	Advanced Databases	MC	45	0	0	0	0	90	60	3	150
T7092	0701460202	Digital Image Processing in GIS	MC	<mark>45</mark>	0	0	0	0	90	<mark>60</mark>	3	<mark>150</mark>
T7051	0701460203	Spatial Modeling & Analysis	MC	45	0	0	0	0	90	60	3	150
TE7440	0701460204	Advance Python Programming for Spatial Analytics	MC	45	0	0	0	0	90	60	3	150
T7049	0701460205	Spatial Data Base Management	MC	30	0	0	0	0	60	40	2	100
T7081	0701460206	Web GIS and Application Design	MC	30	0	0	0	0	60	40	2	100
TE7156	0701460207	Digital Photogrammetry Lab	MC	0	0	60	100	0	0	0	2	100
F7024	0701460208	Smart Mapping	MC	<mark>30</mark>	0	0	0	0	<mark>100</mark>	0	2	<mark>100</mark>
T7094	0701460209	Digital Image Processing Lab	MC	0	0	<mark>30</mark>	<mark>50</mark>	0	0	0	1	<mark>50</mark>
T7050	0701460210	Spatial Data Base Management Lab	MC	0	0	30	50	0	0	0	1	50
T7052	0701460211	Spatial Modeling & Analysis	MC	0	0	30	50	0	0	0	1	50
T7082	0701460212	Web GIS and Application Design Lab	MC	0	0	30	50	0	0	0	1	50
T7032	0701460220	Fundamentals of Geographic Information Systems Lab	МС	0	0	30	50	0	0	0	1	50
T7034	0701460221	Fundamentals of Remote Sensing Lab	МС	0	0	30	50	0	0	0	1	50



Celebrating 50	rears or excellence			IIIIe	uı							
Catalog Course	Course Code	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credi	Total
Code				L	Т	La b	CA	ESE	CA	ESE	ts	Total
T7042	0701460222	Global Navigation Satellite System Lab	МС	0	0	30	50	0	0	0	1	50
T4005	0701460213	Integrated Disaster		0	0	0	0	0	0	0	Non Letter Grade	0
		Total		270	0	270	450	0	580	320	27	1350
		Generic Ele	ctive Co	ourses	Gro	auc						
T7039	0701460214	Geoinformatics Applications in Natural Resource Management	DE	30	0	0	0	0	100	0	2	100
T7037	0701460215	Geoinformatics Applications in Human Settlement	PE	30	0	0	0	0	100	0	2	100
T7045	0701460216	Land Surveying	PE	30	0	0	0	0	100	0	2	100
		Tota	ıl Requii	ed Cr	edit	S	0	0	100	0	2	100
		Generic Ele	ctive Co	ourses	Gro	oup						
T7187	0701460217	GIS for Health Care Management	PE	30	0	0	0	0	100	0	2	100
TE7150	0701460218	Geospatial Application in Agriculture	PE	30	0	0	0	0	100	0	2	100
TE7158	0701460219	Geoinformatics applications in Facility and Utility management	PE	30	0	0	0	0	100	0	2	100
		Tota	ıl Requii	ed Cr	edit	S	0	0	100	0	2	100
			emeste									
	1	1	ic Core							1		
		Dissertation Phase 1	PIS	0	0	300	0	0	300	200	10	500
TE7245	0701460302	Artificial Intelligence	PC	<mark>45</mark>	0	0	0	0	<mark>150</mark>	0	3 Non	<mark>150</mark>
T0100	0701460303	Research Publication *		0	0	0	0	0	0	0	Non Letter Grade	0
F7025	0701460304	Research Paper Writing	PC	15	0	0	0	0	50	0	1	50
		Total		60	0	300	0	0	500	200	14	700
		S	emeste	: 4		_	_					
		1	ic Core	Cours								
TE7714	0701460401	Dissertation Phase 2	PIS	0		840		0	420	280	14	700
		Total		0	0	840	0	0	420	280	14	700



Semester	Internal Credits	External Credits	External Credits Total Credits	
Semester 1	4	17	21	1050
Semester 2	15	16	31	1550
Semester 3	4	10	14	700
Semester 4	0	14	14	700
Total	23	57	80	4000