Name of the Institute: Symbiosis Institute of Geoinformatics Name of the Programme: M.Sc. (Geoinformatics) Revision of syllabus

Institute Code	Institute Name	Program me Code	Program Name	Catalog Course Code	Catalog Course Name	Course Type	Batch 2020	Batch 2021	Change in T-Code Yes / No	Change in course/Na ture		Change in instructio n method	Add on course	Changes Yes: Revised No: Not Revised
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	F7008	Cloud based Application Development	Core	Base PS	Dropped	Yes					Yes
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	F7024	Smart Mapping	Core	Base PS	Dropped	Yes					Yes
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	GEN002	Project	Core	Base PS	Dropped	Yes					Yes
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	GEN005	Non Catalog Courses	Core	Base PS	Dropped	Yes		1			Yes
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T0100	Research Publication	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T2239	Business Communication	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T2573	Organizational Behaviour	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T3010	Essentials of Internet and Web Technologies	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T4005	Integrated Disaster Management	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7039	Geoinformatics Applications in Natural Resource Management	Elective	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7041	Global Navigation Satellite System	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7049	Spatial Data Base Management	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7053	Surveying & Cartography	Core	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7155	Urban Planning and Rural Development	Elective	Base PS	Dropped	Yes					Yes
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7156	Disaster Scenario mapping	Elective	Base PS	No Change	No					No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7161	Principles of Database Management System	Core	Base PS	No Change	No					No

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702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7163	Spatial Analysis	Core	Base PS	No Change	No				No
702 5	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7165	GIS Application Design	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7167		Core	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7168	GIS Project Management	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7169	Mobile GIS	Elective	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7174	Applied Statistics	Core	Base PS	No Change	No			ŕ	No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	T7175	Computer Fundamental and Cyber security	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)		Research Methodology in GIS	Core	Base PS	No Change	No				No
702		70241	And in case of the local division of the loc	TE7147	Principles of GIS	Core	Base PS	No Change	No				No
702		70241	and the second se	TE7148	Principles of Remote Sensing	Core	Base PS	No Change	No				No
702		70241	the second se	TE7149	Geo Image Processing	Core	Base PS	No Change	No				No
702		70241	the second se	TE7150	Geospatial Application in Agriculture	Elective	Base PS	No Change	No				No
702		70241	M.Sc. (Geoinformatics)	TE7151	Web GIS	Core	Base PS	No Change	No				No
702		70241	M.Sc. (Geoinformatics)	TE7152	R for Spatial Science	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	TE7158	Geoinformatics Applications in Facility and Utility Management	Elective	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	TE7397	Photogrammetry	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	. M.Sc. (Geoinformatics)	TE7440	Advance Python Programming for Spatial Analytics	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	M.Sc. (Geoinformatics)	TE7474	Programming for Enterprise GIS	Core	Base PS	No Change	No				No
702	SIG, Pune	70241	L M.Sc. (Geoinformatics)	TE7475	Python for Geospatial Technology	Core	Base PS	No Change	No				No

702 SIG, Pune	70241 M.Sc. (Geoinformatics)	Application of Geospatial Technology in Urban Development	Elective	Added	Yes			Yes	Yes
702 SIG, Pune	70241 M.Sc. (Geoinformatics)	Certificate in COVID- 19 Care for the Community	Core	Added	Yes			Yes	Yes

Total No. of courses	39	
Revision in No. of courses	7	
Revision %	17.95	

Pr. Vidya Patkar. (Deputy Director,) SIG





SYMBIOSIS INSTITUTE OF GEOINFORMATICS

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 Geoinformatics

Name of the Programme: M.Sc. (Geoinformatics)

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	9-13
2020-2021	Approved programme structure	14-18



Fwd: Revision Lettter

Dr.T.P Singh <director@sig.ac.in> To: "Dr.Vidya Patkar" <deputydirector@sig.ac.in> Thu, Aug 4, 2022 at 4:00 PM

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

------ Forwarded message -------From: head_academics@siu.edu.in <head_academics@siu.edu.in> Date: Thu, Aug 4, 2022 at 3:09 PM Subject: Revision Lettter To: <director@sig.ac.in>, <coe@siu.edu.in>, <dyregistrar@siu.edu.in>, <abhijeet.panmand@siu.edu.in>, <head_academics@siu.edu.in>, <ar_academics@siu.edu.in>



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under Section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade (3.58/4) Awarded Category - I by UGC

SIU/ACAD/2022/3856

Date: 04/08/2022

2021-2023

To The Director Symbiosis Institute of Geoinformatics, Pune

Subject: Revised Programme Structure.

Dear Sir/Madam,

Reference to SIU letter no SIU/U-110(SIG, Pune)/2021/4297 dated 25/10/2021 regarding approval of programme structure of batch 2021-2023. The details of the revision are as follows:

Academic Year : 2021-2022

Sr.No. Programme Batch

1 Master of Science (Data Science & Spatial Analytics) (Revision 02)

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

You are requested to download the same using your Login Credentials the link is :

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.

2/9/23, 9:54 AM

Thanking you.

Sincerely,

Dr. Pravin Dange Head- Academics

Copy to: Controller of Examinations, SIU

1 Of 1

Prof. (Dr.) T.P. Singh PhD., M.Phil. (Engg.), M.Sc., MS (Paris University VI) Chairman ISG Pune Professor and Director | Symbiosis Institute of Geo-informatics | Symbiosis International (Deemed University) (SIU) | 5th Floor, Atur Centre, Model Colony | Pune, 411016, India | Ph : 91 20 25672841/43 Ext. 111 | Fax: 91 20 25672842

Vidwan : _https://vidwan.inflibnet.ac.in/profile/277383 ResearcherID : https://publons.com/researcher/GLQ-7008-2022/ ORCiD : https://orcid.org/0000-0002-9375-3495 GoogleScholar : https://scholar.google.com/citations?hl=en&user=IVeDeYkAAAAJ



Celebrating 50 Years of Excellence

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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(SIG, Pune)/2020/27

Date: 04/01/2021

To The Director Symbiosis Institute of Geoinformatics, Pune

Subject: Revised Programme Structure.

Dear Sir/Madam,

Reference to SIU letter no SIU/U-110(SIG, Pune)/2020/2338 (A) dated 22/07/2020 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 Science (Data Science and Spatial Analytics)	2020-2021

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

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

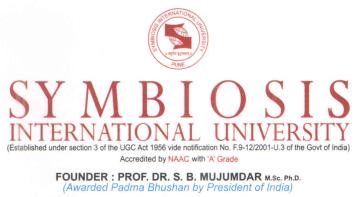
Path: Academics->Catalogue->Programme Structure-> View Course Structure -> Select Institute -> Select Academic Year -> Select Programme -> Select Batch -> Select Revision-> Show Course Structure -> Print Programme Structure.

Thanking you.

Sincerely,

Dr. Pravin Dange Head-Academics

Copy to: Controller of Examinations, SIU



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)	Тор 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.

Dr. S. C. Nerkar

Registrar

SIU/28/15/ 3 50 8 Dated: 13 July 2015

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.



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Symbiosis Institute of Geoinformatics, Pune Master of Science (Geoinformatics) Programme Structure 2021-23

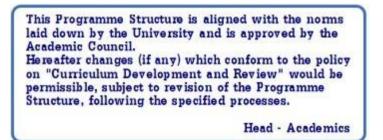
OBJECTIVE	To create the profess equipped with IT an Geo-Informatics ind				
DURATION (IN MONTHS)	24 (Full Time)				
INTAKE	60				
RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	· · · ·		c) Differently abled (In Percentage)
		15		7.5	3
	II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	ants	b) Internatio (In Percenta	nal Students ge)
		2			15
ELIGIBILITY	Graduate in Enginee Commerce and Man National Importance Marks or equivalent	agement from any re with a minimum of	ecognis 50% n	ed University/ narks or equiva	Institution of lent grade (45%
SELECTION PROCEDURE	Personal Interaction	-			
MEDIUM OF INSTRUCTION	English				
PROGRAMME PATTERN	Semester				
COURSE & SPECIALIZATION	As per Annexure A				
FEE		Academic Fee p.a	a In	stitute Deposi	it Total
	Indian Students	242000		20000	262000
	International Students (USD equivalent to INR)	365000		20000	385000
ASSESSMENT	All internal courses institute level. All ex component as extern	kternal courses will l	nave 60		
	The assessment of the performance. Maxim				ased on relative g to O (outstanding).



12.

13. 14.									
Sen	nester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total	
			I		•				
	1	20	0	0	0	0	2*	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	
Т	otal	76	4	0	0	0	0	80	
		• •		r grade courses 'In e for the Commur	•	•			

The revised programme structure supersedes the previously approved programme structure dated 19/04/2021 for the programme.



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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
			mester : 1				•
			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
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
TH4272	<mark>0702410109</mark>	Certificate in COVID-19 Care for the Community *		0	<mark>0</mark>	<mark>0</mark>	Non Letter Grade
			Total	20	640	360	1000
		Se	mester: 2				-
		Generic	Core Courses				
TE7149	0702410201	Geo Image Processing		4	120	80	200
TE7397	0702410202	Photogrammetry		4	120	80	200
TE7440	0702410203	Advance Python Programmingfor 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
			Total	23	690	460	1150
		Se	mester: 3				
			Core Courses				
T7903	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

04/08/2022 (R-1)

SIU



Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
F7041	0702410308	Citizen Science and Geospatial Technology		2	100	0	100
TE7151	0702410309	Web GIS		2	60	40	100
F7008	0702410310	Cloud Based Application Development		1	50	0	50
T0100	0702410311	Research Publication *		0	0	0	Non Letter Grade
			Total	21	730	320	1050
		Generic Elect	tive Courses Group-	ł			
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
		Total	Required Credits	2	100	0	100
		Generic Elect	ive Courses Group-	ll		•	•
TE7150	0702410315	Geospatial Application in Agriculture		2	100	0	100
TE7527	<mark>0702410316</mark>	Application of Geospatial Technology in Urban Development		2	100	<mark>0</mark>	<mark>100</mark>
T7156	0702410317	Disaster Scenario mapping		2	100	0	100
		Total	Required Credits	2	100	0	100
		Se	mester: 4				
		Generic	Core Courses				
T7812	0702410401	Industry Project		12	360	240	600
			Total	12	360	240	600





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
Total	11	69	80	4000



Page: 5



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		a) SC (In Percentage)	b) ST (In Po	ercentage)		ifferently abled Percentage)	
		15				7.5 3		
		II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	ants	b) Internati (In Percent	dents		
			2	15				
5.	ELIGIBILITY	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.	SELECTION PROCEDURE	Personal Interaction and Writing Ability Test						
7.	MEDIUM OF INSTRUCTION	English						
8.	PROGRAMME PATTERN	Semester						
9.	COURSE & SPECIALIZATION	As per Annexure A						
10.	FEE		Academic Fee p.	a Ir	nstitute Depo	sit	Total	
		Indian Students	242000		20000		262000	
		International Students (USD equivalent to INR)	365000		20000		385000	
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						

	DIPLO CERT	IFICATE	examinat	f Science (Geoinf ion by taking into ions after obtainin OF CREDITS	consideration th	e performance o	f all semes	
Ser	nester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
			n					
	1	15	0	0	0	0	1*	15
	2	26	0	0	0	0	0	26
	3	23	4	0	0	0	1*	27
	4	12	0	0	0	0	0	12
	otal	76	4	0	0	0	0	80

The revised programme structure supersedes the previously approved programme structure dated 23/07/2020 for the programme.

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 Marks	External Marks	Total Marks
			emester : 1	•		•	•
			c Core Courses				
T2239	0702410101	Business Communication		2	100	0	100
T2573	0702410102	Organizational Behaviour		2	60	40	100
T7174	0702410103	Applied Statistics		3	90	60	150
T3010	0702410104	Essentials of Internet and Web Technologies		2	60	40	100
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
		•	Total	15	530	220	750
		Se	emester : 2				
		Generi	c Core Courses				
TE7147	0702410201	Principles of GIS		4	120	80	200
TE7397	0702410202	Photogrammetry		4	120	80	200
TE7148	0702410203	Principles of Remote Sensing		4	120	80	200
TE7475	0702410204	Python for Geospatial Technology		3	90	60	150
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
T7168	0702410208	GIS Project Management		2	60	40	100
F7024	<mark>0702410209</mark>	Smart Mapping		<mark>2</mark>	<mark>100</mark>	<mark>0</mark>	<mark>100</mark>
F7008	<mark>0702410210</mark>	Cloud Based Application Development		1	<mark>50</mark>	<mark>0</mark>	<mark>50</mark>
			Total	26	840	460	1300
		Se	emester : 3	•			
		Generi	c Core Courses				
T7903	0702410301	Summer Project		4	120	80	200
T7165	0702410302	GIS Application Design		2	60	40	100
TE7149	0702410303	Geo Image Processing		4	120	80	200
TE7440	0702410304	Advance Python Programming for Spatial Analytics		3	90	60	150
TE7152	0702410305	R for Spatial Science		2	60	40	100
T7167	0702410306	Spatial Modeling		2	60	40	100
T7049	0702410307	Spatial Data Base Management		2	60	40	100



Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
TE7151	0702410308	Web GIS		2	60	40	100
TE7474	0702410309	Programming for Enterprise GIS		2	60	40	100
T0100	0702410310	Research Publication *		0	0	0	Non Letter Grade
		•	Total	23	690	460	1150
		Generic Elec	tive Courses Group				
T7169	0702410311	Mobile GIS		2	100	0	100
T7039	0702410312	Geoinformatics Applications in Natural Resource Management		2	100	0	100
TE7158	0702410313	Geoinformatics applications in Facility and Utility management		2	100	0	100
		Total	Required Credits	2	100	0	100
		Generic Elec	tive Courses Group		-		
TE7150	0702410314	Geospatial Application in Agriculture		2	100	0	100
<mark>T7155</mark>	<mark>0702410315</mark>	Urban Planning and Rural Development		2	<mark>100</mark>	<mark>0</mark>	<mark>100</mark>
T7156	0702410316	Disaster Scenario mapping		2	100	0	100
		Total	Required Credits	2	100	0	100
			mester: 4				
			Core Courses				
T7812	0702410401	Industry Project		12	360	240	600
			Total	12	360	240	600



Semester	Internal Credits	External Credits	Total Credits	Total Marks
	•			•
Semester1	4	11	15	1000
Semester2	3	23	26	1150
Semester3	4	23	27	1250
Semester4	0	12	12	600
Total	11	69	80	4000