

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/Nature	Change in Pedagogy	Change in evaluation	Change in instruction method	Add on course	Changes Yes: Revised No: Not Revised
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	F7009	Block chain Technology	Core	Base PS	Dropped	Yes						Yes
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	GEN002	Project	Core	Base PS	Dropped	Yes						Yes
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	GEN005	Non Catalog Courses	Core	Base PS	Dropped	Yes						Yes
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T0100	Research Publication	Core	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T2239	Business Communication	Core	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T3111	Data Mining and Algorithms	Core	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T3136	System Dynamics Simulation	Elective	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T3441	Web Analytics	Core	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T3447	Machine Learning	Core	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T3453	Deep learning	Elective	Base PS	No Change	No						No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T3509	Artificial Intelligence	Core	Base PS	No Change	No						No

702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T4005	Integrated Disaster Management	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T7049	Spatial Data Base Management	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T7174	Applied Statistics	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T7370	Research Methodology in GIS	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T7674	Cyber Security	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	T7942	Spatial Modeling	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7440	Advance Python Programming for Spatial Analytics	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7441	Image Analytics	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7442	Introduction to Geospatial Technology	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7443	IOT Spatial Analytics	Elective	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7444	Mathematics for Spatial Sciences	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7445	Predictive Analytics and Development	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7446	Programming for Spatial Sciences	Core	Base PS	No Change	No								No
702	SIG, Pune	70243	M.Sc. (Data Science and Spatial Analytics)	TE7447	Spatial Big Data and Storage Analytics	Core	Base PS	No Change	No								No



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. (Data Science & Spatial Analytics)

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



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

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

----- 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

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)	2021-2023

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.

Thanking you.

Sincerely,



Dr. Pravin Dange
Head- Academics

Copy to: Controller of Examinations, SIU

1 Of 1

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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,
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ORCID : <https://orcid.org/0000-0002-9375-3495>

GoogleScholar : <https://scholar.google.com/citations?hl=en&user=IVeDeYkAAAAJ>



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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



SYMBIOSIS INTERNATIONAL UNIVERSITY

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

Accredited by NAAC with 'A' Grade

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.

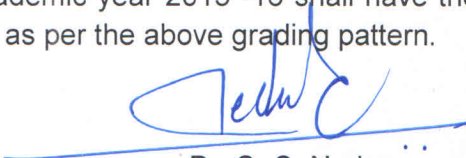
Letter Grade	Proportion	Grade Point
O (Outstanding)	Top 3%	10
A+ (Excellent)	12%	9
A (Very Good)	21%	8
B+ (Good)	28%	7
B (Above Average)	21%	6
C (Average)	12%	5
P (Pass)	Bottom 3%	4
F (Fail)		0
AB (Absent)		0

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, standard of passing and award of degree as per the above grading pattern.

SIU/28/15/ 3508

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.



Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science & Spatial Analytics)
Programme Structure 2021-23

1.	OBJECTIVE	To create the professional human resource in the field of Data Science and analytics Technology; equipped with IT and information management skills to cater to the global industry requirements.			
2.	DURATION (IN MONTHS)	24 (Full Time)			
3.	INTAKE	40			
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	15	
5.	ELIGIBILITY	Graduate in Engineering, IT, Science, Computer Science, Computer Application of 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	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	Institute Deposit	Total
		Indian Students	250000	20000	270000
		International Students (USD equivalent to INR)	375000	20000	395000
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 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/ DIPLOMA/ CERTIFICATE	Master of Science (Data Science and Spatial Analytics) 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	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	23	0	0	0	0	2*	23
2	22	0	0	0	0	0	22
3	20	3	0	0	0	1*	23
4	12	0	0	0	0	0	12
Total	77	3	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 25/10/2021 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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Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science & Spatial Analytics)
Programme Structure 2021-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
TE7444	0702430101	Mathematics for Spatial Sciences		4	120	80	200
T7174	0702430102	Applied Statistics		3	150	0	150
TE7442	0702430103	Introduction to Geospatial Technology		3	90	60	150
TE7446	0702430104	Programming for Spatial Sciences		3	90	60	150
TE7469	0702430105	Principles and Practices of Data Protection		3	90	60	150
TE7475	0702430106	Python for Geospatial Technology		3	90	60	150
T2239	0702430107	Business Communication		2	100	0	100
T7370	0702430108	Research Methodology in GIS		2	100	0	100
T4005	0702430109	Integrated Disaster Management *		0	0	0	Non Letter Grade
TH4272	0702430110	Certificate in COVID-19 Care for the Community *		0	0	0	Non Letter Grade
Total				23	830	320	1150
Semester : 2							
Generic Core Courses							
TE7447	0702430201	Spatial Big Data and Storage Analytics		4	120	80	200
T3111	0702430202	Data Mining and Algorithms		3	90	60	150
T3447	0702430203	Machine learning		3	150	0	150
TE7440	0702430204	Advance Python Programming for Spatial Analytics		3	90	60	150
TE7441	0702430205	Image Analytics		3	90	60	150
T7674	0702430206	Cyber Security		2	100	0	100
T7049	0702430207	Spatial Data Base Management		2	60	40	100
TE7470	0702430208	Data Driven Governance		2	60	40	100
Total				22	760	340	1100
Semester : 3							
Generic Core Courses							
T7942	0702430301	Spatial Modeling		4	120	80	200
T7903	0702430302	Summer Project		4	120	80	200
T3441	0702430303	Web Analytics		3	90	60	150
T3509	0702430304	Artificial Intelligence		3	90	60	150
TE7802	0702430305	Block Chain Technology		3	150	0	150
TE7445	0702430306	Predictive Analytics and Development		3	90	60	150



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Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science & Spatial Analytics)
Programme Structure 2021-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T0100	0702430307	Research Publication *		0	0	0	Non Letter Grade
Total				20	660	340	1000
Generic Elective Courses Group							
T3453	0702430308	Deep learning		3	150	0	150
T3136	0702430309	System Dynamics Simulation		3	150	0	150
TE7443	0702430310	IOT Spatial Analytics		3	150	0	150
TE7448	0702430311	Spatial User Interface design and Implementation		3	150	0	150
TE7471	0702430312	Data Driven Banking, Insurance and Finance		3	150	0	150
TE7472	0702430313	Data Driven Forensics and Crime Investigation		3	150	0	150
TE7473	0702430314	Data Driven Journalism		3	150	0	150
Total Required Credits				3	150	0	150
Semester : 4							
Generic Core Courses							
T7812	0702430401	Industry Project		12	360	240	600
Total				12	360	240	600



Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science & Spatial Analytics)
Programme Structure 2021-23

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	7	16	23	1150
Semester 2	5	17	22	1100
Semester 3	6	17	23	1150
Semester 4	0	12	12	600
Total	18	62	80	4000



Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science and Spatial Analytics)
Programme Structure 2020-22

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2.	DURATION (IN MONTHS)	24 (Full Time)			
3.	INTAKE	40			
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	15	
5.	ELIGIBILITY	Graduate in Engineering, IT, Science, Computer Science of any recognised university/ Institution of National Importance with 50% marks (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	Institute Deposit	Total
		Indian Students	250000	20000	270000
		International Students (USD equivalent to INR)	375000	20000	395000
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 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/ DIPLOMA/ CERTIFICATE	Master of Science (Data Science and Spatial Analytics) 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	19	0	0	0	0	1*	19
2	22	0	0	0	0	0	22
3	24	3	0	0	0	1*	27
4	12	0	0	0	0	0	12
Total	77	3	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 22/07/2020 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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Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science and Spatial Analytics)
Programme Structure 2020-22

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
TE7444	0702430101	Mathematics for Spatial Sciences		4	120	80	200
T7174	0702430102	Applied Statistics		3	150	0	150
T7674	0702430103	Cyber Security		2	100	0	100
T3111	0702430104	Data Mining and Algorithms		3	90	60	150
TE7469	0702430105	Principles and Practices of Data Protection		3	90	60	150
T2239	0702430106	Business Communication		2	100	0	100
T7370	0702430107	Research Methodology in GIS		2	100	0	100
T4005	0702430108	Integrated Disaster Management *		0	0	0	Non Letter Grade
Total				19	750	200	950
Semester : 2							
Generic Core Courses							
TE7475	0702430201	Python for Geospatial Technology		3	90	60	150
TE7442	0702430202	Introduction to Geospatial Technology		3	90	60	150
T3447	0702430203	Machine learning		3	150	0	150
TE7446	0702430204	Programming for Spatial Sciences		3	90	60	150
TE7441	0702430205	Image Analytics		3	90	60	150
F7009	0702430206	Block chain Technology		3	150	0	150
TE7470	0702430208	Data Driven Governance		2	60	40	100
T7049	0702430207	Spatial Data Base Management		2	60	40	100
Total				22	780	320	1100
Semester : 3							
Generic Core Courses							
T7942	0702430301	Spatial Modeling		4	120	80	200
T7903	0702430302	Summer Project		4	120	80	200
T3441	0702430303	Web Analytics		3	90	60	150
T3509	0702430304	Artificial Intelligence		3	90	60	150
TE7440	0702430305	Advance Python Programming for Spatial Analytics		3	90	60	150
TE7445	0702430306	Predictive Analytics and Development		3	90	60	150
TE7447	0702430315	Spatial Big Data and Storage Analytics		4	120	80	200



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Master of Science (Data Science and Spatial Analytics)
Programme Structure 2020-22

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T0100	0702430307	Research Publication *		0	0	0	Non Letter Grade
Total				24	720	480	1200
Generic Elective Courses Group							
T3453	0702430308	Deep learning		3	150	0	150
T3136	0702430309	System Dynamics Simulation		3	150	0	150
TE7443	0702430310	IOT Spatial Analytics		3	150	0	150
TE7448	0702430311	Spatial User Interface design and Implementation		3	150	0	150
TE7471	0702430312	Data Driven Banking, Insurance and Finance		3	150	0	150
TE7472	0702430313	Data Driven Forensics and Crime Investigation		3	150	0	150
TE7473	0702430314	Data Driven Journalism		3	150	0	150
Total Required Credits				3	150	0	150
Semester : 4							
Generic Core Courses							
T7812	0702430401	Industry Project		12	360	240	600
Total				12	360	240	600



Symbiosis Institute of Geoinformatics, Pune
Master of Science (Data Science and Spatial Analytics)
Programme Structure 2020-22

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester1	9	10	19	1150
Semester2	6	16	22	1100
Semester3	3	24	27	1150
Semester4	0	12	12	600
Total	18	62	80	4000