



**SNU**  
SISTER NIVEDITA  
UNIVERSITY

**SCHOOL OF SCIENCE**  
**M. Sc. In Applied Mathematics**  
**(Under UGC – CBCS)**

**Credit Definition**

Type	Duration (in Hour)	Credit
Lecture (L)	1	1
Tutorial (T)	1	1
Practical (P)	2	1

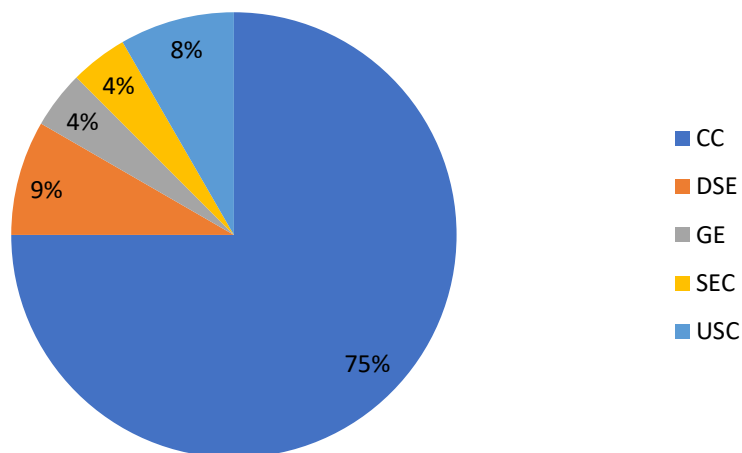
**Total Credit**

Year	Semester	Hr./Week	Credit
1 <sup>st</sup>	1 <sup>st</sup>	31	31
	2 <sup>nd</sup>	31	27
2 <sup>nd</sup>	3 <sup>rd</sup>	25	23
	4 <sup>th</sup>	27	15
<b>Total</b>			<b>96</b>

**Category Codification with Credit Break up**

Definition of Category	Code	No	Credit
Core Courses	CC	1	72
Discipline Specific Elective	DSE	2	8
General Elective	GE	3	4
Skill Enhancement Courses	SEC	4	4
University specified course	USC	5	8
<b>Total</b>			<b>96</b>

### Category wise Credit Distribution



### Subject Codification

Place value	1	2	3	4	5	6	7	8	9	10
Code	Course Category	Department Code	Program Code	Semester (for semester scheme)/Year (for annual scheme)			Subject (Theory/Practical/Sessional/Project/Internship)	Type	Subject Serial Number	

### SEMESTER: I

#### Mandatory Induction Program – Duration 3 weeks

- Physical Activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Abstract Algebra and Partial differential equation	1210021101	4	3	1	0
2	Real Analysis and Generalized functions	1210021102	4	3	1	0
3	Complex Analysis and ordinary differential equation	1210021103	4	3	1	0
4	Introduction to Continuum Mechanics	1210021104	4	3	1	0
5	Discrete Mathematics, Graph theory and Non-linear dynamics	1210021105	4	3	1	0
6	Introduction to Classical Mechanics	2210021101	4	3	1	0
7	Generic Elective	3210021101	4	4	0	0
8	Foreign Language – I	6210021101	2	2	0	0
9	Mentor Seminar I	5210021601	1	1	0	0
Total Credit (CC: 20, DSE: 4, GE: 4, SEC: 1, USC: 2)			31	31 (hrs./Week)		

**SEMESTER: II**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Numerical Analysis	1210022301	6	3	1	4
2	Integral transforms and integral equations	1210022102	4	3	1	0
3	Basic knowledge of Python Programming	1210022303	6	3	1	4
4	Elastic deformation	1210022104	4	3	1	0
5	Management information system	1210022105	4	3	1	0
6	Foreign Language II	6210022102	2	2	0	0
7	Mentor Seminar II	5210022602	1	1	0	0
Total Credit (CC: 20, DSE: 4, USC: 2, SEC:1)			27	31 (hrs./Week)		

**SEMESTER: III**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Topology, functional analysis and operator theory	1210023101	4	3	1	0
2	Unsupervised learning and challenges for Big data analytic	1210023302	4	3	0	2
3	Optimization and operations research	1210023103	4	3	1	0
4	Prescriptive analytics	1210023304	4	3	0	2
5	Financial Mathematics and Biomathematics	1210023105	4	3	1	0
6	Foreign Language III	6210023103	2	2	0	0
7	Mentor Seminar III	5210023603	1	1	0	0
Total Credit (CC: 20, USC: 2, SEC:1)			23	25 ( hrs./Week)		

**SEMESTER: IV**

<b>Sl No</b>	<b>Course Title</b>	<b>Code</b>	<b>Credit</b>	<b>Type</b>		
				<b>L</b>	<b>T</b>	<b>P</b>
1	Master Project / Dissertation	1210024501	12	0	0	24
2	Foreign Language IV	6210024104	2	2	0	0
3	Mentor Seminar IV	5210024604	1	1	0	0
Total Credit (CC: 12, USC: 2, SEC:1)			15	27 (hrs./Week)		