

See at the end of structure (this booklet)

Mathematics

(A) Major Core Courses

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1	Algebra	6	100
2.	II	MJC-2	Calculus	6	100
3.	III	MJC-3	Real Analysis	5	100
4.	III	MJC-4	Ordinary Differential Equations	4	100
5.	IV	MJC-5	Theory of Real Functions	5	100
6.	IV	MJC-6	Group Theory	5	100
7.	IV	MJC-7	Partial Differential Equations	5	100
8.	V	MJC-8	Ring Theory & Linear Algebra-I	5	100
9.	V	MJC-9	Multivariate Calculus	5	100
10.	VI	MJC-10	Complex Analysis	4	100
11.	VI	MJC-11	Metric Space	5	100
12.	VI	MJC-12	Riemann Integration & Series of Function	5	100
13.	VII	MJC-13	Ring Theory & Linear Algebra-I	5	100
14.	VII	MJC-14	Research Methodology	5	100
15.	VII	MJC-15	Numerical Methods	6	100
16.	VIII	MJC-16	Mathematical Finance	4	100

Sub Total = 80

(B) Minor Courses to be offered by the Department for students of other Departments of Science

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1	Algebra	3	100
2.	II	MIC-2	Calculus	3	100
3.	III	MIC-3	Real Analysis	3	100
4.	IV	MIC-4	Ordinary Differential Equations	3	100
5.	V	MIC-5	Theory of Real Functions	3	100
6.	V	MIC-6	Group Theory	3	100
7.	VI	MIC-7	Partial Differential Equations	3	100
8.	VI	MIC-8	Ring Theory & Linear Algebra-I	3	100
9.	VII	MIC-9	Multivariate Calculus	4	100
10.	VIII	MIC-10	Complex Analysis	4	100

Sub Total = 32

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

(C) Multidisciplinary Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	II	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	III	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	II	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	v	INT-1	Summer Internship	4	100

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total = 160 Credits

(G) Basket for Multidisciplinary Courses (MDC)

To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC)

See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC)

See at the end of structure (this booklet)

Course Structure common to all Programme

Semester-I

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 1	MJC-1	6-1-0	6	100
2	Minor Course 1	MIC-1	3-1-0	3	100
3	Multidisciplinary Course 1	MDC-1	3-1-0	3	100
4	MIL	AEC-1	2-1-0	2	100
5	Skill Enhancement Course	SEC-1	3-0-3	3	100
6	Value Added Course	VAC-1	3-0-3	3	100
Total Credit- 20					

Semester-II

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 2	MJC-2	6-1-0	6	100
2	Minor Course 2	MIC-2	3-1-0	3	100
3	Multidisciplinary Course 2	MDC-2	3-1-0	3	100
4	Environmental Science	AEC-2	2-1-0	2	100
5	Skill Enhancement Course	SEC-2	3-1-0	3	100
6	Value Added Course	VAC-2	3-0-3	3	100
Total Credit- 20					

Semester-III

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 3	MJC-3	5-1-0	5	100
2	Major Core 4	MJC-4	4-1-0	4	100
3	Minor Course 3	MIC-3	3-1-0	3	100
4	Multidisciplinary Course 3	MDC-3	3-1-0	3	100
5	Ability Enhancing Course (Course on Disaster Risk Management)	AEC-3	2-1-0	2	100
6	Skill Enhancement Course	SEC-3	3-1-0	3	100
Total Credit- 20					

Semester-IV

SINo.	Name of Course	Type of Course	L-T-P	Credit	Marks
1	Major Core 5	MJC-5	5-1-0	5	100
2	Major Core 6	MJC-6	5-1-0	5	100
3	Major Core 7	MJC-7	5-1-0	5	100
4	Minor Course 4	MIC-4	3-1-0	3	100

5	Ability Enhancing Course (Course on NCC/NSS, NGOs/Social Service/Scout & Guide/Sports)	AEC-4	2-1-0	2	100
TotalCredit- 20					

Semester –V

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 8	MJC-8	5-1-0	5	100
2	Major Core 9	MJC-9	5-1-0	5	100
3	Minor Course 5	MIC-5	3-1-0	3	100
4	Minor Course 6	MIC-6	3-1-0	3	100
5	Internship	INT-1	-	4	100
TotalCredit- 20					

Semester–VI

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 10	MJC-10	4-1-0	4	100
2	Major Core 11	MJC-11	5-1-0	5	100
3	Major Core 12	MJC-12	5-1-0	5	100
4	Minor Course 7	MIC-7	3-1-0	3	100
5	Minor Course 8	MIC-8	3-1-0	3	100
TotalCredit- 20					

Semester–VII

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 13	MJC-13	5-1-0	5	100
2	Major Core 14	MJC-14	5-1-0	5	100
3	Major Core 15	MJC-15	6-1-0	6	100
4	Minor Course 9	MIC-9	4-1-0	4	100
TotalCredit- 20					

Semester–VIII

SINo.	Name ofCourse	Type ofCourse	L-T-P	Credit	Marks
1	Major Core 16	MJC-16	4-1-0	4	100
2	Minor Course 10	MIC-10	4-1-0	4	100
3	Research Project /Dissertation	RP-1	-	12	
TotalCredit- 20					

- **Subject / Courses having 6, 5 & 4 credits may be split into theory and Practical where ever required with following credit and LTP.**

- a. **For 6 Credit Course / Subject –**
 - i. Theory – 4-1-0, 4 Credit, 100 Marks
 - ii. Practical 0-0-4, 2 Credit, 100 Marks
- b. **For 5 Credit Course / Subject –**
 - i. Theory – 3-1-0, 3 Credit, 100 Marks
 - ii. Practical 0-0-4, 2 Credit, 100 Marks
- c. **For 4 Credit Course / Subject –**
 - i. Theory – 3-1-0, 3 Credit, 100 Marks
 - ii. Practical 0-0-2, 1 Credit, 100 Marks

Abbreviation:

LTP: Lecture/Tutorial/Practical (number of classes per week)

MIL: Modern Indian

Type of the Course

Name of the Course

Credit

MJC :	Major Core Course	80
MIC :	Minor Core Course	32
MDC :	Multidisciplinary Course	09
AEC :	Ability Enhancement Course	08
SEC :	Skill Enhancement Course	09
VAC :	Value Added Course	06
INT :	Summer Internship	04
RP :	Research Project /Dissertation	12

Total= 160