Electronics

(A) Major Core Courses

Sl. No.	Sem	Type of Course	Name ofCourse	Credits	Marks
1.	I	MJC-1	Basic Circuit Theory and Network Analysis	6	100
2.	II	MJC-2	Mathematics Foundation for Electronics	6	100
3.	III	MJC-3	Semiconductor Devices	5	100
4.	III	MJC-4	Applied Physics	4	100
5.	IV	MJC-5	Electronic Circuits	5	100
6.	IV	MJC-6	Digital Electronics and VHDL	5	100
7.	IV	MJC-7	C Programming and Data Structures	5	100
8.	V	MJC-8	Operational Amplifiers and Applications	5	100
9.	V	MJC-9	Signals and Systems	5	100
10.	VI	MJC-10	Electronic Instrumentation	4	100
11.	VI	MJC-11	Microprocessors and Microcontrollers	5	100
12.	VI	MJC-12	Electromagnetics	5	100
13.	VII	MJC-13	Communication Electronics	5	100
14.	VII	MJC-14	Photonics	5	100
15.	VII	MJC-15	Computer Networks	6	100
16.	VIII	MJC-16	Transmission Lines, Antenna	a f nd	Wa¥@Propagation

Sub Total = 80

(D) Minor Courses to be offered by the Department for students of other Departments of Commerce

Sl. No.	Sem	Type of Course	Name of Course	Cred	Marks
				its	
1.	I	MIC-1	Basic Circuit Theory and Network Analysis	3	100
2.	II	MIC-2	Mathematics Foundation for Electronics	3	100
3.	III	MIC-3	Semiconductor Devices	3	100
4.	IV	MIC-4	Applied Physics	3	100
5.	V	MIC-5	Electronic Circuits	3	100
6.	V	MIC-6	Digital Electronics and VHDL	3	100
7.	VI	MIC-7	C Programming and Data Structures	3	100
8.	VI	MIC-8	Operational Amplifiers and Applications	3	100
9.	VII	MIC-9	Signals and Systems	4	100
10.	VIII	MIC-10	Electronic Instrumentation	4	100

Sub Total = 32

ote: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department neerned 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

SlNo.	Name ofCourse	Type ofCour	L-T-P	Credit	Marks		
		se					
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		
TotalCredit- 20							

Semester-II

SlNo.	Name ofCourse	Type ofCour	L-T-P	Credit	Marks			
		se						
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			
	TotalCredit- 20							

Semester-III

SlNo.	Name of Course	Type	L-T-P	Credit	Marks				
		ofCour							
		se							
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	AEC-3	2-1-0	2	100				
	Disaster Risk Management)								
6	Skill Enhancement Course	SEC-3	3-1-0	3	100				
	Total Credit- 20								

Semester-IV

SlNo.	Name ofCourse	Type ofCour	L-T-P	Credit	Marks
		se			
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	AEC-4	2-1-0	2	100		
	& Guide/Sports)						
TotalCredit- 20							

Semester -V

SlNo.	Name ofCourse	Type ofCour	L-T-P	Credit	Marks	
		se				
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

SlNo.	Name ofCourse	Type ofCour	L-T-P	Credit	Marks
		se			
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

SlNo.	Name ofCourse	Type	L-T-P	Credit	Marks	
		ofCour				
		se				
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

SlNo.	Name of Course	Type ofCour	L-T-P	Credit	Marks
		se			
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 splitted 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, 1Credit, 100 Marks

bbreviation:

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

MIL: Modern Indian

or the Col	urse	Name of the Course Credit		
MJC	:	Major Core Course		80
MIC	:	Minor Core Course		32
MDC	:	Multidisciplinary Course		09
AEC	:	Ability Enhancement Course		80
SEC	:	Skill Enhancement Course		09
VAC	:	Value Added Course		06
INT	:	Summer Internship		04
RP	:	Research Project /Dissertation		12
			otal=	160