FIRST YEAR – CBCS PATTERN

							,	SEI	MEST	ER - I										
					TEAC	CHING SO	HEME								EXA	MINATIO	N SCH	EME		
			THEORY	Y	Γ	FUTORIA	L		F	PRACTICA	A L				THEO	RY			RACTIC	
Sr.	ırse					1	1			1				1			1	('.	Term wo	k)
No	Course	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours		Credits	No. of Lecture	Hours		Hours	Mode	Marks	Total Marks	%Min	Hours	Max	%Min
1	BSC-P101 BSC-C101	3	3	3	-	-	-		1	2	2			CIE ESE	30 70	100	40%	S	25	40%
2	BSC-M101	3	3	3	1	1	1		-	-	-			CIE ESE	30 70	100	40%	deline	25	40%
3	ESC-P101 ESC-C101	3	3	3	-	-	-		1	2	2			CIE ESE	30 70	100	40%	As per BOS Guidelines	25	40%
4	ESC-P102 ESC-C102	3	3	3	-	-	-		1	2	2			CIE ESE	30 70	100	40%	er BO	25	40%
5	ESC-P103 ESC-C103	3	3	3	-	-	-		1	2	2			CIE ESE	30 70	100	40%	AsI	25	40%
6	HM-01	1	1	1	-	-	-		1	2	2			-	-	-	-		25	40%
7	ESC-W101	1	1	1	-	-	-		1	2	2			-	-	-	-		50	40%
	TOTAL	17	17	17	1	1	1		6	12	12					500			200	
							S	EN	MESTI	ER –II										
1	BSC-P101 BSC-C102	3	3	3	-	-	-		1	2	2			CIE ESE	30 70	100	40%		25	40%
2	BSC-M102	3	3	3	1	1	1		-	-	-			CIE ESE	30 70	100	40%	As per BOS Guidelines	25	40%
3	ESC-C104	3	3	3	_	_	_		1	2	2			CIE	30	100	40%	iide	25	40%
	ESC-P104									_				ESE	70	100	1070	i Gı		1070
4	ESC-C105	3	3	3	_	-	_		1	2	2			CIE	30	100	40%	308	25	40%
	ESC-P105											-		ESE	70			er]		
5	ESC-C106 ESC-P106	3	3	3	-	-	-		1	2	2			CIE ESE	30 70	100	40%	As p	25	40%
6	HM-102	1	1	1	-	-	-		1	2	2			-	-	-	-		25	40%
7	ESC-W102	1	1	1	-	-	-		1	2	2			-	-	-	-		50	40%
	TOTAL	17	17	17	1	1	1		6	12	12					500			200	
	TOTAL	34	34	34	2	2	2		12	24	24					1000			400	

CIE – Continuous Internal Evaluation ESE – End Semester Examination

- Candidate contact hours per week: 30 Hours (Minimum) • Total Marks for B.E. Sem I & II : 700 + 700 = 1400Theory and Practical Lectures : 60 Minutes Each • Total Credits for B.E.-I (Semester I & II) : 48 (SEM-I: 24 + SEM – II: 24)
- In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.
- There shall be separate passing for theory and practical (term work) courses. A) Non-Credit Self Study Course: Compulsory Civic Courses (CCC)

For Sem I: CCC – I: Democracy, Elections and Good Governance

(B) Non-Credit Self Study Course : Skill Development Courses (SDC)

For Sem II: SDC – I: Any one from following (i) to (v)

i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical

Management v) Resume, Report & proposal writing

Note:

- 1. BSC: Basic Science Course are compulsory.
- 2. HM: Humanities and Management are compulsory.
- 3. ESC: Engineering Science Course: ESC P courses (subjects) are mandatory for Physics group, while ESC C courses (subjects) are mandatory for **Chemistry** group.
- 4. There will be two groups for Sem I & II Physics and Chemistry. The Candidate's those opting Physics group in Sem I shall appear for Chemistry group in Sem II and Vice-versa.
- **5. ESC-W:** Engineering Science Course-Workshop are compulsory.

<u>Semester - I</u>

Sl. No	Code No.	Subject	Semester	Credits
1.	BSC-P101	Engineering Physics	1	3
2.	BSC-C101	Engineering Chemistry	1	3
3.	BSC-M101	Engineering Mathematics-I	1	3
4.	ESC-P101	Basic Electrical Engineering	1	3
5.	ESC-P102	Basic Civil Engineering	1	3
6.	ESC-P103	Engineering Graphics	1	3
7.	ESC-C101	Fundamentals of Electronics and Computer Programming	1	3
8.	ESC-C102	Applied Mechanics	1	3
9.	ESC-C103	Basic Mechanical Engineering	1	3
10.	ESC-W101	Workshop Practice-I	1	2
11.	HM-01	Professional Communication-I	1	2

Semester - II

Sl. No	Code No.	Subject	Semester	Credits
1.	BSC-P101	Engineering Physics	2	3
2.	BSC-C102	Engineering Chemistry	2	3
3.	BSC-M102	Engineering Mathematics-II	2	3
4.	ESC-C104	Basic Electrical Engineering	2	3
5.	ESC-C105	Basic Civil Engineering	2	3
6.	ESC-C106	Engineering Graphics	2	3
7.	ESC-P104	Fundamentals of Electronics and Computer	2	3
8.	ESC-P105	Applied Mechanics	2	3
9.	ESC-P106	Basic Mechanical Engineering	2	3
10.	ESC-W102	Workshop Practice-II	2	2
11.	HM-102	Professional Communication-II	2	2

SECOND YEAR INFORMATION TECHNOLOGY – CBCS PATTERN

	SEMESTER - I											III EXAMINATION SCHEME											
		TEACHING SCHEME															INAT						
Sr.	se sct	7	THEORY	Y	Т	UTORIA	L		PI	RACTIC	AL			Γ	THEO	RY	1	PR	ACTIO	CAL	TEI	RM WO)RK
No	Course (Subject Title)	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours		Credits	No. of Lecture	Hours		Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	BSC-IT301	3	3	3	1	1	1		-	-	-			CIE ESE	30 70	100	40	Si	-	-	S	25	10
2	PCC- IT302	4	4	4	-	-	-		1	2	2			CIE ESE	30 70	100	40	Guidelines	50	20	Guidelines	25	10
3	PCC- IT303	3	3	3	-	-	-	E	-	-	-			CIE ESE	30 70	100	40	S Gui	-	-	S Gui	-	-
4	PCC- IT 304	3	3	3	-	-	-	-	-	-	-			CIE	30 70	100	40	As per BOS	-	-	per BOS	-	-
5	PCC - IT 305	3	3	3	1	1	1	-	-	-	-			CIE ESE	30 70	100	40	As p	-	-	As p	25	10
6	PCC- IT 306	3	3	3	-	-	-		2	4	4			-	-	-	-		50	20		50	20
7	PW- IT 307	-	-	-	-	-	-		1	2	2					= 0.0			50	20		25	10
	TOTAL	19	19	19	2	2	2		4	8	8	7				500			150			150	
			T						SE	EMESTE	CK –I	V	ı	CIE	20								
1	PCC- IT 401	3	3	3				-	1	2	2			CIE	30 70	100	40		50	20		25	10
2	PCC- IT402	3	3	3				E	-	-	-			CIE ESE	30 70	100	40	S	-	-	S		
3	PCC- IT403	3	3	3	-	-	-							CIE ESE	30 70	100	40	deline			deline		
4	PCC-IT404	3	3	3	1	1	1							CIE ESE	30 70	100	40	S Gui			S Gui	25	10
5	PCC- IT405	3	3	3	-	-	-	-						CIE ESE	30 70	100	40	per BOS Guidelines			per BOS Guidelines		
6	PCC- IT406	2	2	2	-	-	-		2	4	4			-	-	-	-	As F	50	20	As F	50	20
7	PW- IT407								1	2	2								50	20		50	20
8	MC- IT408	3	3	3	-	-	-		-	-	-			CIE ESE	30 70	100	10 25		-	-		-	-
	TOTAL	20	20	20	1	1	1		4	8	8					600			150			150	
	TOTAL	38	38	38	3	3	3		8	16	16					1100			300			300	

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for S.E. Sem III & IV : 800 + 900 = 1700								
• Theory and Practical Lectures: 60 Minutes Each • Total Credits for S.E. Sem III & IV: 50 (SEM-I: 25 + SEM									
• In theory examination there will be a passing based on separation there will be a passing based on separation.	arate head of passing for examination of CIE and ESE.								
• There shall be separate passing for theory and practical (term work) courses.									

Note:

- **1. BSC-IT**: Basic Science Course Information Technology are compulsory.
- **2. ESC-IT:** Engineering Science Course Information Technology are compulsory.
- **3. PCC-IT:** Professional Core Course Information Technology are compulsory.
- **4.** MC-EV: Mandatory Course Environmental Studies which is compulsory for theory 70 marks and project work 30 marks.

Semester-III

Sl. No	Code No.	Subject	Semester	Credits
1.	BSC-IT301	Statistics & Fuzzy Systems	3	4
2.	PCC- IT302	Digital System and Microprocessor	3	5
3.	PCC- IT303	Data Communication	3	3
4.	PCC- IT304	Fundamentals of Economics and Management	3	3
5.	PCC- IT 305	Discrete Mathematical Structures	3	4
6.	PCC- IT306	Problem solving using C	3	5
7.	PW- IT307	Soft Skills	3	1

Semester - IV

Sl. No	Code No.	Subject	Semester	Credits
1.	PCC- IT401	Computer Network	4	4
2.	PCC-IT402	Computer Organization and Architecture	4	3
3.	PCC-IT403	Data Structures	4	3
4.	PCC-IT404	Theory of computation	4	4
5.	PCC-IT405	Software Engineering	4	3
6.	PCC- IT406	Object Oriented Programming	4	4
7.	PW-IT407	Mini Project	4	1
8.	MC-IT408	Environmental Studies	4	3

THIRD YEAR INFROMATION TECHNOLOGY - CBCS PATTERN

										SEMEST	ER – V	7											
					7		HING SC										MINA'	TION	SCHEM	Œ			
G	ct se		THEORY	Y		T	UTORIA	L]	PRACTIC	AL			,	THEOI	RY		PF	RACTIC	CAL	TE	RM WC	RK
Sr. No	Course (Subject Title)	Credits	No. of Lecture	Hours		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours		Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-IT501	3	3	3		-	-	-	1	2	2			CIE ESE	30 70	100	40	s	-	-	s	50	20
2	PCC- IT502	3	3	3		-	-	-	1	2	2			CIE ESE	30 70	100	40	As per BOS Guidelines	25	10	Guidelines	50	20
3	PCC- IT503	3	3	3		-	-	-	-	-	-			CIE ESE	30 70	100	40	S Guid	-	-	S Guid	-	-
4	PCC- IT504	4	4	4		1	1	1	-	-	-			CIE ESE	30 70	100	40	r BO	-	-	r BOS	25	10
5	OEC- IT505	3	3	3		-	-	-	-	-	-			CIE ESE	30 70	100	40	As pe	-	-	As per	-	-
6	PCC-IT506	3	3	3		-	-	-	2	4	4								50	20		50	20
7	HM-IT507					1	1	1											25	10		25	10
	TOTAL	19	19	19		2	2	2	4	8	8					500			100			200	
										SEMEST	ER –V	I											
1	PCC-IT601	3	3	3		-	-	-	1	2	2			CIE ESE	30 70	100	40					25	10
2	PCC-IT602	4	4	4		-	-	-	1	2	2			CIE ESE	30 70	100	40	lelines			es	25	10
3	PCC-IT603	4	4	4		-	-	-	1	2	2			CIE ESE	30 70	100	40	Guid	50	20	Guidelines	25	10
4	PCC-IT604	3	3	3		1	1	1						CIE ESE	30 70	100	40	As per BOS Guidelines			S Gu		
5	OEC –IT605	3	3	3		-	-	-						CIE ESE	30 70	100	40	As pe	-	-	As per BOS	25	10
6	PCC-IT606	2	2	2		-	-	-	1	2	2								50	20	As I	25	10
7	PW-IT607								1	2	2								50	20		25	10
	TOTAL	19	19	19		1	1	1	5	10	10					500			150			150	
	TOTAL	38	38	38		3	3	3	10	20	20					1000			250			350	

CIE- Continuous Internal Evaluation

- Candidate contact hours per week: 30 Hours (Minimum)
- Total Marks for T.E. Sem V & VI : 800 + 800 = 1600
- Theory and Practical Lectures : 60 Minutes Each
- Total Credits for T.E. Sem V & VI : 50 (SEM-I: 25 + SEM II: 25)
- In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.
- There shall be separate passing for theory and practical (term work) courses.
- ** Indicates that the theory examination is of 04 hours duration.
- (A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)

For Sem V: CCC - II: Constitution of India and Local Self Government

(B) Non-Credit Self Study Course : Skill Development Courses (SDC)

For Sem VI: SDC – II: Any one from following (vi) to (x)

vi) Interview & Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel &

• Tourism, ix) E-Banking & Financial Services, x) RTI & Human Right Education (HRE), IPR & Patents

Note:

- **1. PCC-IT:** Professional Core Course Information Technology are compulsory.
- 2. OEC-IT: Open Elective Course.

Semester -V

Sl. No	Code No.	Subject	Semester	Credits
1.	PCC-IT501	Operating System-I	5	4
2.	PCC-IT602	Database Engineering	5	4
3.	PCC- IT503	Computer Algorithms	5	3
4.	PCC- IT504	System Programming	5	5
5.	OEC- IT505	Microcontrollers	5	3
6.	PCC-IT506	Application Development Tool I	5	5
7.	HM-IT507	Soft Skill	5	1

Semester - VI

Sl. No	Code No.	Subject	Semester	Credits
1.	PCC-IT601	Computer Graphics	6	4
2.	PCC-IT602	Information Security	6	5
3.	PCC-IT603	Internet Technology	6	5
4.	PCC-IT604	Operating System II	6	4
5.	OEC -IT605	Robotics	6	3
6.	PCC-IT606	Application Development Tool II	6	3
7.	PW-IT607	Seminar	6	1

FINAL YEAR INFROMATION TECHNOLOGY - CBCS PATTERN

	SEMESTER -VI																					
	TEACHING SCHEME									EXAMINATION SCHEME												
G	ct ge		THEORY	Y	1	TUTORIA	L		PRACTIC	AL			,	THEO	RY		PF	RACTIC	AL	TE	RM WO	RK
Sr. No	Course (Subject Title)	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours		Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-IT701	4	4	4	1	1	1	-	-	-			CIE ESE	30 70	100	40		-	-		50	20
2	PCC-IT702	3	3	3	1	1	1	1	2	2			CIE ESE	30 70	100	40	Guidelines	-	-		50	20
3	PCC-IT703	3	3	3	-	-	-	1	2	2			CIE ESE	30 70	100	40		50	20		50	20
4	PCE-IT704	3	3	3	1	1	1	-	-	-			CIE ESE	30 70	100	40	As per BOS	-	-		25	10
5	PCC-IT705	3	3	3	-	-	-	2	4	4							As per	50	20		50	20
6	PW-IT706	-	-	-	-	-	-	2	4	4			-	-	-	-	7	50	20		25	10
7	WI-IT707	-	-	-		-	-	-	-	-	ļ		-	-	-	-		-	-		50	20
	TOTAL	16	16	16	3	3	3	6	12	12	L				400			150			250	
	l		1		1 1	I		,	SEMESTI	SR –VI	П		- CTE	20	I			ı		T	ı	
1	PCC-IT801	4	4	4	_	-	-	1	2	2			CIE ESE	30 70	100	40		50	20		25	10
2	PCC-IT801	3	3	3	1	1	1	-	-	-			CIE ESE	30 70	100	40	ines					
3	PCE-IT803	4	4	4	1	1	1						CIE ESE	30 70	100	40	uidel				25	10
4	PCE-IT804	3	3	3	1	1	1	-	-	-			CIE ESE	30 70	100	40	per BOS Guidelines	-	-		25	10
5	PCC-IT505	2	2	2	-	-	-	2	4	4								50	20		50	20
6	PW-IT806	-	-	-	-	-	-	2	4	4			-	-	-	-	As	100	30		25	10
7	HM-IT807							1	2	2											50	20
	TOTAL	16	16	16	3	3	3	6	12	12					400			200			200	
	TOTAL	32	32	32	6	6	6	12	24	24					800			325			450	

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for B.E. Sem VII & VIII : 800 + 800 = 1600								
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for B.E. Sem VII & VIII: 50 (SEM-I: 24 + 1 WI + SEM –								
	II: 25)								
• In theory examination there will be a passing based on sepa	arate head of passing for examination of CIE and ESE.								
• There shall be separate passing for theory and practical (term work) courses.									

Note:

- **1. PCC-IT:** Professional Core Course Information Technology are compulsory.
- **2. PCE-IT:** Professional Core Elective Information Technology are compulsory.
- **3. MC-IT:** Mandatory Course- Information Technology are compulsory.
- **4. SI-IT:** Summer Internship- Information Technology are compulsory.
- **5. PW-IT:** Project Work- Information Technology are compulsory.

Semester -VII

Sl. No	Code No.	Subject		Semester	Credits
1.	PCC-IT701	Project Management		7	5
2.	PCC-IT702	Mobile Computing		7	4
3.	PCC-IT703	Advanced Database Systems		7	4
4.		Elective –I	Image processing	7	4
	PCE-IT704		Soft Computing		
			Enterprise Resource Planning		
5.	PCC-IT705	Web Technologies –I		7	5
6.	PW-IT706	Project - I		7	2
7.	WI-IT707	Winter Internship		7	

Semester - VIII

Sl.	Code No.	Subject		Semester	Credits
No					
1.	PCC-IT801	Storage Networks		8	5
2.	PCC-IT801	Cloud Computing		8	4
3.		Elective -II	Cyber Security	8	5
	PCE-IT803		Information Retrieval		
			Business Intelligence		
4.		Elective -III	Software Testing	8	4
	PCE-IT804		Distributed Computing		
			Artificial Intelligence		
5.	PCC-IT505	Web Technologies –II		8	4
6.	PW-IT806	Project - II		8	2
7.	HM-IT807	Advanced Software Technologies		8	1

Course Wise Credit Distribution

Course code	Definitions	Total Credit	Total Percentage	
BSC	BASIC SCIENCE COURSES	16	8.33	
PCC	PROFESSIONAL CORE COURSES	115	59.89	
MC	MANDATORY COURSE	1	0.52	
ESC	ENGINEERING SCIENCE COURSES	28	14.58	
PCE	PROFESSIONAL CORE ELECTIVES	13	6.77	
SI	SUMMER INTERNSHIP	-	-	
MP	MINI PROJECT WORK	2	1.04	
PW	PROJECT Work	4	2.08	
OEC	OPEN ELECTIVE COURSES	6	3.12	
НМ	Humanities and Management	7	3.64	