

First Year ENGINEERING – CBCS PATTERN (PHYSICS GROUP)

SEMESTER - I																		
Sr. No	Course	TEACHING SCHEME									EXAMINATION SCHEME							
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL (Term wok)		
		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	3	3	3	-	-	-	1	2	2		CIE	30	100	40%	As per BOS Guidelines	25	40%
2	BSC-M101	3	3	3	1	1	1	-	-	-		ESE	70	100	40%		25	40%
3	ESC-P101	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
4	ESC-P102	3	3	3	-	-	-	1	2	2		ESE	70	100	40%		25	40%
5	ESC-P103	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
6	HM-01	1	1	1	-	-	-	1	2	2		ESE	70	100	40%		25	40%
7	ESC-W101	1	1	1	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70	100	40%		25	40%
	TOTAL	17	17	17	1	1	1	6	12	12		-	-	-	-		50	40%
												-	-	-	-		50	40%
														500			200	
SEMESTER –II																		
1	BSC-C101	3	3	3	-	-	-	1	2	2		CIE	30	100	40%	As per BOS Guidelines	25	40%
2	BSC-M101	3	3	3	1	1	1	-	-	-		ESE	70	100	40%		25	40%
3	ESC-C101	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
4	ESC-C102	3	3	3	-	-	-	1	2	2		ESE	70	100	40%		25	40%
5	ESC-C103	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
6	HM-01	1	1	1	-	-	-	1	2	2		ESE	70	100	40%		25	40%
7	ESC-W101	1	1	1	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70	100	40%		25	40%
	TOTAL	17	17	17	1	1	1	6	12	12		-	-	-	-		50	40%
												-	-	-	-		50	40%
														500			200	
	TOTAL	34	34	34	2	2	2	12	24	24				1000			400	

CIE – Continuous Internal Evaluation
ESE – End Semester Examination

First Year ENGINEERING – CBCS PATTERN (CHEMISTRY GROUP)

SEMESTER - I																					
Sr. No	Course	TEACHING SCHEME										EXAMINATION SCHEME									
		THEORY				TUTORIAL				PRACTICAL				THEORY				PRACTICAL (Term wok)			
		Credits	No. of Lecture	Hours		Credits	No. of Lecture	Hours		Credits		No. of Lecture		Hours	Hours	Mode	Marks	Total Marks	%Min	Hours	Max
1	BSC-C101	3	3	3		-	-	-		1	2	2			CIE	30	100	40%	As per BOS Guidelines	25	40%
2	BSC-M101	3	3	3		1	1	1		-	-	-			ESE	70					
3	ESC-C101	3	3	3		-	-	-		1	2	2			CIE	30	100	40%			
4	ESC-C102	3	3	3		-	-	-		1	2	2			ESE	70					
5	ESC-C103	3	3	3		-	-	-		1	2	2			CIE	30	100	40%			
6	HM-01	1	1	1		-	-	-		1	2	2			ESE	70					
7	ESC-W101	1	1	1		-	-	-		1	2	2			CIE	30	100	40%			
	TOTAL	17	17	17		1	1	1		6	12	12			ESE	70					
SEMESTER –II																					
1	BSC-P101	3	3	3		-	-	-		1	2	2			CIE	30	100	40%	As per BOS Guidelines	25	40%
2	BSC-M101	3	3	3		1	1	1		-	-	-			ESE	70					
3	ESC-P101	3	3	3		-	-	-		1	2	2			CIE	30	100	40%			
4	ESC-P102	3	3	3		-	-	-		1	2	2			ESE	70					
5	ESC-P103	3	3	3		-	-	-		1	2	2			CIE	30	100	40%			
6	HM-01	1	1	1		-	-	-		1	2	2			ESE	70					
7	ESC-W101	1	1	1		-	-	-		1	2	2			CIE	30	100	40%			
	TOTAL	17	17	17		1	1	1		6	12	12			ESE	70					
														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.-I Sem I & II : 1400
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for B.E.-I (Semester I & II) : 48
• 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.	
• Sem I - SSC : Soft Skill Course : There shall be an additional compulsory course of 2 Credits (SELF Study) for a course of Democracy, Elections and Good Governance which will not included in total Credits	
• Sem II - SSC : Soft Skill Course : Any one from following (i) to (v) (2 Credits) (SELF Study) 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-Workshops are compulsory.

Second Year CIVIL ENGINEERING – CBCS PATTERN

SEMESTER - III																								
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME													
		THEORY				TUTORIAL				PRACTICAL			THEORY					PRACTICAL			TERM WORK			
		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-CV301	3	3	3		1	1	1		-	-	-			CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
2	PCC-CV302	3	3	3		-	-	-		1	2	2			ESE	70						25	10	2
3	ESC-CV303	3	3	3		-	-	-		1	2	2			CIE	30	100	40		25	10	2	25	10
4	ESC-CV304	3	3	3		-	-	-		1	2	2			ESE	70						25	10	2
5	PCC-CV305	4	4	4		-	-	-		1	2	2			CIE	30	100	40		25	10	2	25	10
6	ESC-CV306	3	3	3		-	-	-		1	2	2			ESE	70						-	-	2
						-	-	-		1	2	2			CIE	30	100	40		-	-	2	50	20
						-	-	-		1	2	2			ESE	70						-	-	2
	TOTAL	19	19	19		1	1	1		5	10	10				500				75		225		
SEMESTER -IV																								
1	ESC-CV401	3	3	3		1	1	1		-	-	-			CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
2	PCC-CV402	3	3	3		-	-	-		1	2	2			ESE	70						25	10	2
3	PCC-CV403	3	3	3		-	-	-		1	2	2			CIE	30	100	40		25	10	2	25	10
4	ESC-CV404	3	3	3		-	-	-		1	2	2			ESE	70						25	10	2
5	PCC-CV405	3	3	3		-	-	-		1	2	2			CIE	30	100	40		-	-	2	25	10
6	ESC-CV406	2	2	2		-	-	-		2	4	4			ESE	70						50	20	2
7	ESC-CV407	-	-	-		-	-	-		1	2	2			CIE	30	100	40						
						-	-	-		1	2	2			ESE	70						-	-	2
	TOTAL	17	17	17		1	1	1		7	14	14				600				100		200		
	TOTAL	36	36	36		2	2	2		12	24	24				1100			175		425			

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for S.E. Sem III & IV : 1700
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for S.E. Sem III & IV : 50
• 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.	

Third Year CIVIL ENGINEERING – CBCS PATTERN

SEMESTER – V																									
Sr. No	Course (Subject Title)	TEACHING SCHEME										EXAMINATION SCHEME													
		THEORY				TUTORIAL				PRACTICAL			THEORY					PRACTICAL			TERM WORK				
		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-CV501	4	4	4		-	-	-		1	2	2			CIE	30	100	40	As per BOS Guidelines		25	10	2	50	20
2	PCC-CV502	3	3	3		-	-	-		1	2	2			ESE	70					-	-	2	25	10
3	PCC-CV503	3	3	3		-	-	-		1	2	2			CIE	30	100	40			-	-	2	25	10
4	PCC-CV504	4	4	4		-	-	-		1	2	2			ESE	70					25	10	2	50	20
5	PCC-CV505	2	2	2		-	-	-		2	4	4			CIE	30	100	40			50	20	2	50	20
6	OEC-CV506	3	3	3		-	-	-		-	-	-			ESE	70					-	-	-	-	-
	TOTAL	19	19	19		-	-	-		6	12	12				500			100			200			
SEMESTER –VI																									
1	PCC-CV601	3	3	3		1	1	1		-	-	-			CIE	30	100	40	As per BOS Guidelines		-	-	2	25	10
2	HM-CV602	4	4	4		-	-	-		1	2	2			ESE	70					25	10	2	25	10
3	PCC-CV603	4	4	4		-	-	-		1	2	2			CIE	30	100	40			25	10	2	25	10
4	PCC-CV604	4	4	4		-	-	-		1	2	2			ESE	70					-	-	2	25	10
5	OEC-CV605	3	3	3		-	-	-		-	-	-			CIE	30	100	40			-	-	-	-	-
6	PCC-CV606	-	-	-		-	-	-		2	4	4			ESE	70					50	20	2	50	20
7	MC-CV607	-	-	-		-	-	-		1	2	2			-	-	-	-		-	-	2	50	20	
	TOTAL	18	18	18		1	1	1		6	12	12				500			75			225			
	TOTAL	37	37	37		1	1	1		12	24	24				1000			175			425			

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

• Candidate contact hours per week : 31 Hours (Minimum)	• Total Marks for T.E. Sem V & VI : 1600
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for T.E. Sem V & VI : 50
• 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.	

Final Year CIVIL ENGINEERING – CBCS PATTERN

SEMESTER –VII																								
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME													
		THEORY				TUTORIAL			PRACTICAL			THEORY				PRACTICAL			TERM WORK					
		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-CV701	4	4	4		-	-	-		1	2	2			CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
2	PCC-CV702	3	3	3		1	1	1		-	-	-			ESE	70						-	-	2
3	PCC-CV703	3	3	3		-	-	-		1	2	2			CIE	30	100	40		25	10	2	25	10
4	PCC-CV704	3	3	3		-	-	-		1	2	2			ESE	70						25	10	2
5	PCE-CV705	3	3	3		1	1	1		-	-	-			CIE	30	100	40		25	10	2	25	10
6	HM-CV706	2	2	2		-	-	-		1	2	2			ESE	70						-	-	2
7	SI-CV707	-	-	-		-	-	-		-	-	-			CIE	30	100	40		-	-	2	25	10
8	PW-CV708	-	-	-		-	-	-		1	2	2			ESE	70						-	-	2
	TOTAL	18	18	18		2	2	2		5	10	10			500					75			225	
SEMESTER –VIII																								
1	PCC-CV801	4	4	4		-	-	-		1	2	2			CIE	30	100	40		As per BOS Guidelines	25	10	2	25
2	PCC-CV802	3	3	3		-	-	-		1	2	2			ESE	70						-	-	2
3	PCC-CV803	3	3	3		-	-	-		1	2	2			CIE	30	100	40	-		-	2	25	10
4	PCE-CV804	3	3	3		1	1	1		-	-	-			ESE	70						-	-	-
5	PCE-CV805	3	3	3		1	1	1		-	-	-			CIE	30	100	40	-		-		-	-
6	PCC-CV806	-	-	-		-	-	-		2	4	4			ESE	70						25	10	2
7	PW-CV807	-	-	-						2	4	4				-	-	100	40		2	50	20	
	TOTAL	16	16	16		2	2	2		7	14	14			500				125				175	
	TOTAL	35	35	35		3	3	3		12	24	24					1000		200				400	

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

• Candidate contact hours per week : 32 Hours (Minimum)	• Total Marks for B.E. Sem VII & VIII : 1600
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for B.E. Sem VII & VIII : 50
• 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.	

COURSE CODE AND DEFINITION

Sr. No.	Course code	Definitions
1	BSC	BASIC SCIENCE COURSES
2	PCC	PROFESSIONAL CORE COURSES
3	MC	MANDATORY COURSE
4	ESC	ENGINEERING SCIENCE COURSES
5	PCE	PROFESSIONAL CORE ELECTIVES
6	SI	SUMMER INTERNSHIP
7	PW	PROJECT WORK
8	MP	MINI PROJECT WORK
9	OEC	OPEN ELECTIVE COURSES
10	HM	HUMANITIES AND MANAGEMENT

SEMESTER - I

Sr. No	Code No.	Course (Subject Title)	Semester	Credits
1	BSC-P101	Engineering Physics	1	4
2	BSC-M101	Engineering Mathematics-I	1	4
3	ESC-P101	Basic Electrical Engineering	1	4
4	ESC-P102	Basic Civil Engineering	1	4
5	ESC-P103	Engineering Graphics	1	4
6	ESC-W101	Workshop Practice-I	1	2
7	HM-01	Professional Communication-I	1	2
TOTAL				24
Sr. No	Code No.	Course (Subject Title)	Semester	Credits
1	BSC-C101	Engineering Chemistry	1	4
2	BSC-M101	Engineering Mathematics-I	1	4
3	ESC-C101	Fundamentals of Electronics and Computer Programming	1	4
4	ESC-C102	Applied Mechanics	1	4
5	ESC-C103	Basic Mechanical Engineering	1	4
6	ESC-W101	Workshop Practice-I	1	2
7	HM-01	Professional Communication-I	1	2
TOTAL				24

SEMESTER - II				
Sr. No	Code No.	Course (Subject Title)	Semester	Credits
1	BSC-P102	Engineering Physics	2	4
2	BSC-M102	Engineering Mathematics-II	2	4
3	ESC-P104	Basic Electrical Engineering	2	4
4	ESC-P105	Basic Civil Engineering	2	4
5	ESC-P106	Engineering Graphics	2	4
6	ESC-W102	Workshop Practice-II	2	2
7	HM-102	Professional Communication-II	2	2
TOTAL				24
Sr. No	Code No.	Course (Subject Title)	Semester	Credits
1	BSC-P102	Engineering Chemistry	2	4
2	BSC-M102	Engineering Mathematics-II	2	4
3	ESC-C104	Fundamentals of Electronics and Computer Programming	2	4
4	ESC-C105	Applied Mechanics	2	4
5	ESC-C106	Basic Mechanical Engineering	2	4
6	ESC-W102	Workshop Practice-II	2	2
7	HM-102	Professional Communication-II	2	2
TOTAL				24

SEMESTER - III					
Sr. No	Code No.	Course (Subject Title)		Semester	Credits
1	BSC-CV301	M-III	Engineering Mathematics-III	3	4
2	PCC-CV302	SY-I	Surveying-I	3	4
3	ESC-CV303	SOM	Strength of Material	3	4
4	ESC-CV304	FM-I	Fluid Mechanics-I	3	4
5	PCC-CV305	BCM	Building Construction and Material	3	5
6	ESC-CV306	NM	Numerical Method	3	4
TOTAL					25

SEMESTER - IV					
Sr. No	Code No.	Course (Subject Title)		Semester	Credits
1	ESC-CV401	SM	Structural Mechanics	4	4
2	PCC-CV402	SY-II	Surveying-I	4	4
3	PCC-CV403	CT	Concrete Technology	4	4
4	ESC-CV404	FM-II	Fluid Mechanics-II	4	4
5	PCC-CV405	BDD	Building Design and Drawing	4	5
6	ESC-CV406	ES	Environmental Studies	4	3
7	ESC-CV407	CAD	Computer Aided Design	4	1
TOTAL					25

SEMESTER - V					
Sr. No	Code No.	Course (Subject Title)		Semester	Credits
1	PCC-CV501	WRE-I	Water Resource Engineering-I	5	5
2	PCC-CV502	DSS	Design of Steel Structures	5	6
3	PCC-CV503	EE-I	Environmental Engineering-I	5	4
4	PCC-CV504	GTE-I	Geotechnical Engineering-I	5	5
5	PCC-CV505	BPD	Building Planning and Design	5	2
6	OEC-CV506	OE-I	Open Elective-I	5	3
TOTAL					25

SEMESTER - VI					
Sr. No	Code No.	Course (Subject Title)		Semester	Credits
1	PCC-CV601	TOS	Theory of Structures	6	4
2	HM-CV602	EM	Engineering Management	6	5
3	PCC-CV603	EE-II	Environmental Engineering-II	6	4
4	PCC-CV604	GTE-II	Geotechnical Engineering-II	6	5
5	OEC-CV605	OE-II	Open Elective-II	6	4
6	PCC-CV606	SDD-I	Structural Design and Drawing-I	6	2
7	MP/PW-CV607		SEMINAR		1
TOTAL					25

SEMESTER - VII					
Sr. No	Code No.	Course (Subject Title)		Semester	Credits
1	PCC-CV701	DCS-I	Design of Concrete Structures-I	7	5
2	PCC-CV702	EQ	Earthquake Engineering	7	4
3	PCC-CV703	QSV	Quantity Survey and Valuation	7	4
4	PCC-CV704	TR-I	Transportation Engineering-I	7	4
5	PCE-CV705	EL-I	Professional Elective-I	7	4
6	HM-CV706	LACE	Legal Aspect in Civil Engineering	7	3
7	SI-CV707	FT	Field Training	7	-
8	PW-CV708	PP-I	Project Phase-I	7	1
TOTAL					25

SEMESTER - VIII					
Sr. No	Code No.	Course (Subject Title)		Semester	Credits
1	PCC-CV701	DCS-II	Design of Concrete Structures-II	8	5
2	PCC-CV702	WRE-II	Water Resource Engineering-II	8	4
3	PCC-CV703	TR-II	Transportation Engineering-II	8	4
4	PCE-CV704	EL-II	Professional Elective-II	8	4
5	PCE-CV705	EL-III	Professional Elective-III	8	4
6	PCC-CV706	SDD-II	Structural Design and Drawing-II	8	2
7	PW-CV707	PP-I	Project Phase-II	8	2
TOTAL					25