Institute core (IC) courses:

SI. No.	Course No.	Course Title	Credits	Grade type
1.	CHM101A	CHEMISTRY LABORATORY	03	Letter grade
2.	CHM102A	GENERAL CHEMISTRY	08	Letter grade
3.	ESC101A	FUNDAMENTAL OF COMPUTING	14	Letter grade
4.	ESC201A	INTRODUCTION TO ELECTRONICS	14	Letter grade
5.	MTH101A	MATHEMATICS - I	11	Letter grade
6.	MTH102A	MATHEMATICS - II	11	Letter grade
7.	PHY101A	PHYSICS LABORATORY	03	Letter grade
8. PHY102A PHY		PHYSICS-I	11	Letter grade
9. PHY103A		PHYSICS-II	11	Letter grade
10. LIF101A		INTRODUCTION TO BIOLOGY	06	Letter grade
11. TA101A		ENGINEERING GRAPHICS	09	Letter grade
12. TA201A		MANUFACTURING PROCESSES - I	06	Letter grade
13.	TA202A	MANUFACTURING PROCESSES - II	06	Letter grade
14. PE101A		MORNING EXERCISE	03	S/X
15.	15. PE102A EVENING EXERCISE		03	S/X
16.	COM200	COMMUNICATION SKILLS: COMPOSITION	05	S/X
		Total Credits	124	

CHEMICAL ENGINEERING

вт					THE RESERVE OF THE PERSON OF T			Template No. CHE-1
				SEME	STER			
С	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	818
-	MTH101A [11]	CHM102A [08]	CHE251A [09]	ESC201A [14]	CHE312A [09]	CHE331A [09]	CHE453A [11]	HSS-5 (Level-2) [09]
0	ESC101A [14]	MTH102A [11]	TA202A [06]	TA201A [06]	CHE313A [09]	CHE381A [11]	CHE492A [08]	OE-5 [09]
Ĭ	CHM101A [03]	LIF101A [06]	HSS-2 (Level-1) [11]	COM200A [05]	CHE352A [05]	CHE391A [08]	OE-3 [09]	OE-6 [09]
u	PHY103A [11]	PHY101A [03]	ESO-1 [11]	SO-1 [11]	ESO-3 [14]	HSS-4 (Level-2) [09]	OE-4 [09]	DE-3 [09]
	PE101A [03]	PHY102A [11]	(ESO201A)	(CSO201A/CSO202A)	(ESO205A)			
R	ENG112A/	TA101A [09] ESO-2 [11] CHE211A [09] HSS-3 (Level-2) [09] UGP-2/	UGP-2/DE-1 [09]	UGP-3/DE-2 [09]	DE-4 [09]			
	HSS-1 (Level-1) [11]	PE102A [03]	(ESO208A)	CHE221A [09]	CHE300A [02] (CHE	(CHE398A)	(CHE497A)	
5			1.	CHE261A [06]	OE-1 [09]	OE-2 [09]	DE-M2 [05]	UGP-4 [09]
E			-	UGP-1 [04] (CHE349A) (Extra Credits)	*	(Optional)	(CHE498A) (Extra Credits)	
5					DE-M1 [05] (Optional)		•	
- 55	53	51	48	60	57 - 66	55	46/51	45/54

MINIMUM CREDIT REQUIREMENT FOR GRADUATION:

Institute Core (IC)	:	124	Credits
Department Compulsory (DC)	- 1	105	Credits
Department Elective (DE)	:	36	Credits
Open Elective (OE)	4	54	Credits
SO/ ESO	- 5	47	Credits
HSS (Level-I)		-22	Credits
HSS (Level-II)	12	27	Credits
Total		415	Cradite

- REMARKS:

 1) DE M1 & M2 are Modular Courses which are optional summer training and may count towards DE credits.
 2) DE credits may include 18 credits from UGP-2 and UGP-3.
 3) UGP-1 and UGP-4 are optional and do not count towards DE/OE credits.
 4) Upto 18 DE credits may be waived from the minimum requirements for students opting for Dual Degree in Chemical Engineering itself.
 5) Upto 36 OE credits may be waived from the minimum requirements for students opting for Dual Degree in another department or the Double Major programme.

PG Component Template No.								
7 th	8 th	SUMMER	9 th	10 th				
CHE701A [0]	CHE702A [0]	M.Tech. Thesis [09] (CHE699A) (if required)	M.Tech. Thesis [09] (CHE699A) / DE/DE PG [09] (if	M.Tech. Thesis [36 (CHE699A)				
OE PG-1 [09] OE PG-2 [09]	M.Tech. Thesis [09] (CHE699A) / DE PG-1 [09]		required)					
	DE PG-2 [09]	-	M. Tech. Thesis [27]					
	OE PG-3 [09]							
	OE PG-4 [09]							
	M.Tech. Thesis [09]	•						
18	45	09	36	36				

MINIMUM CREDIT REQUIREMENT IN MS PART FOR GRADUATION:

PG Component : 54 Credits Thesis : 81 Credits

Basket - A CHE611A [09] CHE621A [09] CHE631A [09] CHE641A [09]

REMARKS:

- All courses to be taken with the permission of Supervisor/ DUGC Convener.
 DE PG 1 & 2 should be selected from Basket A.
- 3) CHE701A and CHE702A (seminar courses) are mandatory.
- Course credits and Thesis credits mentioned under the dual degree template are only for the M.Tech. part of the programme. In addition to these credits, students are required to follow 4) and complete all their graduation requirements for their UG programme.
- 5) 18 DE credits may be used from the BT minimum requirements to fulfil requirements for the BT-MT dual degree programme. These will be waived from the BT programme and counted towards PG requirements.
- 6) Upto 36 OE credits may be used from the BT minimum requirements to fulfil requirements for the BT-MT dual degree programme. These will be waived from the BT programme and counted towards PG requirements.

	UG Pre	-Requisites	PG Component					
	Odd Semester	Even Semester	7 th	8 th	SUMMER	9 th	10 th	
V	ESOZ04A [11]/ CHE33 CHE211A [09]*	CHE331A [09]	CHE701A [0]	CHE702A [0]	M.Tech. Thesis [09]	M.Tech. Thesis	M.Tech. Thesis [36]	
			DE PG-1 [09], DE PG-2 [09] CHE611A [09], DE PG-3 [09]		(CHE699A) (if required)	(CHE699A) / DE PG [09] (if required)	(CHE699A)	
i								
			CHE621A [09]					
	ESO201A [11]/ CHE221A [09]*		CHE631A [09]/ CHE633A [09]			M.Tech. Thesis [27] (CHE699A)		
AND THE PERSON	CHEZZIA (US)					(CIEOSSA)		
			M.Tech. Thesis [09] (CHE699A)					
	18/22	09		63	09	36	36	

MINIMUM CREDIT REQUIREMENT IN MT PART FOR GRADUATION:

PG Component

: S4 Credits : 81 Credits Thesis

REMARKS:

- 1) *The ESO courses may be substituted by the CHE courses only with permission of the CHE DUGC convener.

 2) CHE701A and CHE702A (seminar courses) are mandatory.

 3) All courses to be taken with the permission of Supervisor/ DUGC Convener.

- 4) Course credits and Thesis credits mentioned under the dual degree template are only for the
- M.Tech. part of the programme. In addition to these credits, students are required to follow and complete all their graduation requirements for their UG programme.

 Upto 36 OE credits may be used from the parent department's BT/BS minimum requirements to fulfil requirements for the BT-MT dual degree programme. These will be waived from the parent department's BT programme requirements and counted towards PG requirements.

DOUBLE MAJOR	Template No. CHE-4
Odd Semester	Even Semester
Maria and Maria	Pre-Requisites
ESO201A [11]	CSO201A [11]/ CSO202A [11]
ESO208A [11]	
ESO205A [14]	
M	andatory CHE Courses
CHE251A [09]	CHE211A [09]
CHE312A [09]	CHE221A [09]
CHE313A [09]	CHE261A [06]
CHE352A [05]	CHE331A [09]
CHE453A [11]	CHE381A [11]
CHE492A [08]	CHE391A [08]
51	52

TOTAL MANDATORY CREDITS FOR SECOND MAJOR IN CHEMICAL ENGINEERING: 103 CREDITS

- REMARKS:

 1) Depending on overlap with course contents of parent department, some equivalent CHE courses may be waived on a case-to-case basis.

 2) Upto 36 OE credits may be waived from the parent department BT/BS graduation requirements when they are used to fulfill requirements for the double major.

MINOR		- Template No. CHE-S				
Title	CHEMICAL ENGINEERING					
C	CHE251A [09]					
0	CHE261A [09]					
U R	CHE313A [09]					
5	CHE331A [09]					
E						
5						
4	36					