

## Templates for programs Chemical Engineering (CHE)

### Template for the BT program in Chemical Engineering

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
SCHEME-1 (9) ELC111/ELC112/ELC113 *	ETH111 (3) **	SCHEME-2 HSS-I (9-11)	SCHEME-3 EME (9-11)	SCHEME-4 HSS- II (9)	SCHEME-5 HSS- II (9)	SCHEME-6 HSS-II (9)	
MTH 111 (6)	MTH 113 (6)	ESC201 (14)	CHE212 (12)	CHE311 (12)	CHE352 (12)	CHE453 (6)	
MTH 112 (6)	MTH 114 (6)	ESO201 (11)	CHE213 (12)	CHE331 (12)	CHE655 (12) /CHE668 (9)		
PHY 112 (11)	PHY 113 (11)	ESO204 (11)	CHE221 (12)	CHE381 (12)	DE-2 (9)	DE-3 (9)	OE-4 (9)
PHY 111 (3)	CHM 111 (3)	CHE201 (3)	CHE261 (9)	DE-1 (9)	OE-1 (9)	OE-2 (9)	OE-5 (9)
TA 111 (9)	ESC 111 (7)	CHE251 (12)	CHE200 (2)			OE-3 (9)	OE-6 (9)
CHM 112 (4)	ESC 113 (7)						
CHM 113 (4)	LIF111 (6)						
PE111 (3)	PE112 (3)						
55	52	60-62	56-58	54	48-51	42	27
27 credits of DEs and 54 credits of OEs to be taken in the 5 <sup>th</sup> to 8 <sup>th</sup> semester.							

Credit table for BT program in Chemical Engineering		
Course type	Recommended Credit	Credit in the department
Institute Core (IC)	112	112
E/SO	18-45	22
Department	144-179	152-155 (125-128 DC + 27 DE)
Open electives (OE)	51-57	54
SCHEME	54-58	54-58
Total for 4-year BT/BS	391-420	394-401

Template for the BTH program in Chemical Engineering

Template for 3 <sup>rd</sup> to 8 <sup>th</sup> semester for BTH program in Chemical Engineering					
Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
SCHEME-2 HSS-I (9-11)	SCHEME-3 EME (9-11)	SCHEME-4 HSS-II (9)	SCHEME-5 HSS-II (9)	SCHEME-6 HSS-II (9)	
ESC201 (14)	CHE212 (12)	CHE311 (12)	CHE352 (12)	CHE453 (6)	
ESO201 (11)	CHE213 (12)	CHE331 (12)	CHE655 (12) /CHE668 (9)	UGP-2 (9)	OE-4 (9)
ESO204 (11)	CHE221 (12)	CHE381 (12)	UGP-1 (9)	OE-2 (9)	OE-5 (9)
CHE201 (3)	CHE261 (9)	DE-1 (9)	OE-1 (9)	OE-3 (9)	OE-6 (9)
CHE251 (12)	CHE200 (2)		DEH-1 (9)	DEH-2 (9)	DEH-3 (9)
60-62	56-58	54	57-60	51	36
2 UGPS, ( UGP-1 and UGP-2 in lieu of two DEs in the BT template), 9 credits of DE, 27 credits at 6/7 level as DEH and 54 credits of OEs to be taken in the 5 <sup>th</sup> to 8 <sup>th</sup>					

— CPI criteria for BTH: 8.0

Template for the BTM program in Chemical Engineering

Template for 3 <sup>rd</sup> to 8 <sup>th</sup> semester for BTM program in Chemical Engineering					
Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
SCHEME-2 HSS-I (9-11)	SCHEME-3 EME (9-11)	SCHEME-4 HSS-II (9)	SCHEME-5 HSS-II (9)	SCHEME-6 HSS-II (9)	
ESC201 (14)	CHE212 (12)	CHE311 (12)	CHE352 (12)	CHE453 (6)	
ESO201 (11)	CHE213 (12)	CHE331 (12)	CHE655 (12) /CHE668 (9)		
ESO204 (11)	CHE221 (12)	CHE381 (12)	OE-2 (9)	MTB-1 (9)	MTB-4 (9)
CHE201 (3)	CHE261 (9)	OE-1 (9)	OE-3 (9)	MTB-2 (9)	MTB-5 (9)
CHE251 (12)	CHE200 (2)			MTB-3 (9)	MTB-6 (9)
60-62	56-58	54	48-51	42	27
27 OE credits and 54 MTB credits in the 5 <sup>th</sup> to 8 <sup>th</sup> semester.					

Template for five year dual-degree program in Chemical Engineering

Template for dual degree program in Chemical Engineering (Category A)					
Sem I-VI	Sem VII	Sem VIII	Summer	Sem IX	Sem X
Same as BT Template	CHE453 (6)		CHE699 (9)	CHE699 (36)	CHE699 (36)
	Complete 54 CHE PG course credits using OE/DE slots. Must do any 2 of CHE611, CHE621, CHE631 and CHE641 in the 54 CHE PG course credits				
PG Credits Summary- Thesis: 81; CHE PG Courses: 54 9 credit of DE and 36 credits of OE may be waived off in the UG requirement					

Template for dual degree program in Chemical Engineering (Category B)						
UG Pre-requisites		Sem VII	Sem VIII	Summer	Sem IX	Sem X
Odd Sem	Even Sem	CHE453 (6)		CHE699 (9)	CHE699 (36)	CHE699 (36)
ESO204 / CHE311	ESO201 / CHE221  CHE331	Complete 54 CHE PG course credits using OE/DE slots. Must do CHE611, CHE621 and CHE631/CHE633 (any one) in the 54 ChE				
PG Credits Summary- Thesis: 81; CHE PG Courses: 54 36 credits of OE may be waived off in the UG requirement UG Pre-requisite course is mandatory for the completion of DD-B						

Template for double major: second major in Chemical Engineering

Odd Sem	Even SEM
Pre-requisites	
ESO201 (11)	
Mandatory CHE courses	
CHE251 (12)	CHE212 (12)
CHE311 (12)	CHE213 (12)
CHE331 (12)	CHE221 (12)
CHE381 (12)	CHE352 (12)
Total CHE course credits: 96	

36 credits of OE may be waived off in the UG requirement  
Pre-requisite course is mandatory for the completion of DM

Minor in Chemical Engineering

Student should complete any three of the following courses: CHE251, CHE212, CHE213\*, CHE221\*, CHE311, CHE331\*, CHE381

\* Offered in minor slots