

NIRMA UNIVERSITY
Institute of Technology

Proposed Teaching & Examination Scheme
Bachelor of Technology (Chemical Engineering)
Semester-V

w. e. f. Academic Year 2026-27

Course Code	Course Title	Teaching Scheme (hours/week)				Examination Scheme			
		L	T	P	C	Durati on Hours	Component Weightage		
							SEE	CE	LPW
3CH201CC24	Mass Transfer Operations – II	3	0	2	4	3	0.3	0.3	0.4
2CH601CC26	Instrumentation and Process Control	3	0	2	4	3	0.3	0.3	0.4
3CH301CC24	Chemical Reaction Engineering – I	3	0	2	4	3	0.3	0.3	0.4
3CH404ME24	Petroleum Refining Engineering	3	0	2	4	3	0.3	0.3	0.4
3CH502CC24	Modelling & Process Simulations	3	0	2	4	3	0.3	0.3	0.4
	Dept. Elective – I	3	1	0	4	3	0.6	-	0.4
		3	0	2			0.3	0.3	0.4
		2	1	2			0.3	0.3	0.4
	Total	-	-	-	24	-	-	-	-
Supplementary Course									
OFT003 VA 23	Campus to Corporate – II	1	-	-	-	-	1	-	-

11 6 FEB 2026


Deputy Registrar (Examination)
NIRMA UNIVERSITY
Sarkhej-Gandhinagar Highway
Ahmedabad- 382481 INDIA

Department Elective-I

Sr. No.	Course Code	Course Title	L	T	P	C
1.	3CH601ME24	Unit Processes	3	1	0	4
2.	3CH401ME24	Pharmaceutical Technology	3	1	0	4
3.	3CH402ME24	Fertiliser Technology	3	1	0	4
4.	3CH701ME24	Air Pollution Control Engineering	3	0	2	4
5.		SWAYAM NPTEL Courses*	-	-	-	4

L: Lectures, P/T: Practicals / Tutorial, C: Credits Examination

SEE: Semester End

LPW/PW: Laboratory / Project Work

CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

*Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time-to-time which they may opt in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

16 FEB 2026


Deputy Registrar (Examination)
NIRMA UNIVERSITY
Sarkhej-Gandhinagar Highway
Ahmedabad- 382481 INDIA

16 FEB 2026

Semester-VI

w. e. f. Academic Year 2026-27

Course Code	Course Title	Teaching Scheme (hours/week)				Examination Scheme			
		L	T	P	C	Duration Hours	Component Weightage		
							SEE	CE	LPW
3CH302CC24	Chemical Reaction Engineering – II	3	0	2	4	3	0.3	0.3	0.4
3CH501CC24	Process Equipment Design	3	0	2	4	3	0.3	0.3	0.4
3CH704CC26	Environmental Pollution Control and Safety Management	3	0	2	4	3	0.3	0.3	0.4
4FT901CC24	Research Methodology and Seminar*	2	0	0	-	-	-	-	-
	Department Elective – II	3	1	0	4	3	0.6	-	0.4
		3	0	2			0.3	0.3	0.4
		2	1	2			0.3	0.3	0.4
	Open Elective – I	3	1	0	4	3	0.6	-	0.4
		3	0	2			0.3	0.3	0.4
		2	1	2			0.3	0.3	0.4
Total		-	-	-	20	-	-	-	-
Internship									
3FT901CC24	Summer Internship**	-	-	-	6	-	1	-	-

*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

**Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII.

16 FEB 2026


 Deputy Registrar (Examination)
 NIRMAL UNIVERSITY
 Serling-Sandhinagar Highway
 Ahmedabad- 382481 INDIA

Department Elective-II

Sr. No.	Course Code	Course Title	L	T	P	C
1.	3CH705ME26	Industrial Wastewater Treatment	3	0	2	4
2.	4CH201ME25	Advanced Separation Techniques	3	1	0	4
3.	4CH603ME25	Process Integration	3	1	0	4
4.	3CH606ME26	Plant Utilities and Energy Efficiency	3	1	0	4
5.		SWAYAM NPTEL Courses***	-	-	-	4

L: Lectures, P/T: Practicals / Tutorial, C: Credits Examination

SEE: Semester End

LPW/PW: Laboratory / Project Work

CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

***Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time-to-time which they may opt in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

Open Elective-I@

Sr. No.	Course Code	Course Title	L	T	P	C
1.	3CH101OE26	Chemical Analytical Techniques	3	0	2	4
2.	4CH401IE25	Green Chemistry and Technology	3	1	0	4
3.	3CH706OE26	Air Pollution Control Techniques	3	1	0	4

@Chemical Engineering Department will offer courses to the students of all other departments of IT-NU.

11-6 FEB 2026


Deputy Registrar (Examination)
NIRMA UNIVERSITY
Sarkhej-Gandhinagar Highway
Ahmedabad- 382481 INDIA