

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

Program Name : Chemical Technology	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 12020	Date of Submission : 16-07-2026

PART A- Profile of the Institute

A1.Name of the Institute : UPL University of Sustainable Technology	
Year of Establishment : 2011	Location of the Institute: At Vataria AnkValia Road
A2. Institute Address :Block No :402, At & Po: Vataria, Ankleshwar-Valia Road, Ta: Valia, Distt.: Bharuch (Gujarat)	
City:Bharuch	State:Gujarat
Pin Code:393135	Website:www.upluniversity.ac.in
Email:provost@upluniversity.ac.in	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Bharuch
State : Gujarat	Pin Code: 393135
A4. Type of the Institution : University	
A5. Ownership Status : Self financing	

A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: 8
- No. of PG programs: 4

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2026	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Chemical Engineering	2011	--	Chemical Engineering
3	Engineering & Technology	PG	Chemical Engineering	2015	--	Chemical Engineering
4	Engineering & Technology	Diploma	Chemical Engineering	2021	--	Chemical Engineering
5	Engineering & Technology	UG	Chemical Technology	2011	--	Chemical Technology
6	Engineering & Technology	UG	Computer Engineering	2021	--	Computer Engineering
7	Engineering & Technology	Diploma	Computer Engineering	2021	--	Computer Engineering
8	Engineering & Technology	Diploma	Electrical Engineering	2021	--	Electrical Engineering
9	Engineering & Technology	PG	Electrical Engineering	2023	--	Electrical Engineering
10	Engineering & Technology	UG	Electrical Engineering	2012	--	Electrical Engineering
11	Engineering & Technology	Diploma	Environmental Engineering	2021	--	Environmental Science and Technology
12	Engineering & Technology	PG	Environmental Management	2020	--	Environmental Science and Technology
13	Engineering & Technology	UG	Environmental Science & Technology	2011	--	Environmental Science and Technology
14	Engineering & Technology	Diploma	Information Technology	2023	--	Computer Engineering
15	Engineering & Technology	UG	Information Technology	2024	--	Computer Engineering
16	Engineering & Technology	Diploma	Mechanical Engineering	2021	--	Mechanical Engineering

17	Engineering & Technology	UG	Mechanical Engineering	2011	--	Mechanical Engineering
18	Engineering & Technology	PG	Mechanical Engineering (Thermal Engineering)	2015	--	Mechanical Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Chemical Technology	No	Chemical Technology	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPE AUTHORITY APPROVAL DET
1	Chemical Technology	UG	2011 / --	60	Yes	2022	20	2022	Governing Body

Sanctioned Intake for Last Five Years for the Chemical Technology

Academic Year	Sanctioned Intake
2025-26	20
2024-25	20
2023-24	20
2022-23	20
2021-22	30
2020-21	30

List of the Allied Departments/Cluster and Programs:

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Nilesh Badgujar
B. Nature of appointment:	Regular
C. Qualification:	M.E. and Ph.D.

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	20	20	20	20	30	30	60
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	9	9	6	5	14	9	20

N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	9	2	6	4	5	13
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	9	18	8	11	18	14	33

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	20	9	0	45.00
2024-25 (CAYm1)	20	9	0	45.00
2023-24 (CAYm2)	20	6	0	30.00

Average $[(ER1 + ER2 + ER3) / 3] = 40.00 \approx 5.00$

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	33.00	33.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	12.00	11.00	31.00
Success Rate (SR)= (B/A) * 100	36.36	33.33	46.97

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 38.89

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	6.78	4.97	5.66
Y=Total no. of successful students	7.00	5.00	4.00
Z=Total no. of students appeared in the examination	9.00	6.00	5.00
API $[X*(Y/Z)]$	5.27	4.14	4.53

Average API $[(AP1+AP2+AP3)/3]$: 4.65

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.61	7.39	7.04
Y=Total no. of successful students	6.00	9.00	15.00
Z=Total no. of students appeared in the examination	7.00	10.00	15.00
API $[X * (Y/Z)]$	6.52	6.65	7.04

Average API $[(AP1 + AP2 + AP3)/3]$: 6.74

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.77	7.25	8.38
Y=Total no. of successful students	9.00	15.00	11.00

Z=Total no. of students appeared in the examination	9.00	15.00	12.00
API [$X*(Y/Z)$]:	7.77	7.25	7.68

Average API [(AP1 + AP2 + AP3)/3] : 7.57

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	33.00	33.00	66.00
X=No. of students placed	11.00	11.00	30.00
Y=No. of students admitted to higher studies	1.00	0.00	1.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	36.36	33.33	46.97

Average Placement Index = (P_1 + P_2 + P_3)/3: 38.89 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Cur Ass (Y/N)
1	Omprakash K. Mahadwad	XXXXXXXX59H	Ph.D	SVNIT	Chemical Engineering	15/06/2018	8	Professor	Professor	15/06/2018	Regular	Yes
2	Apurba Chakrabarty	XXXXXXXX53B	M.Tech	west Bengal University of Technology	Ceramic Technology	13/11/2013	12.7	Assistant Professor	Assistant Professor		Regular	Yes
3	Harshal Patil	XXXXXXXX86C	M.E.	Institute of Chemical Technology, Mumbai	Chemical Technology	13/01/2017	9.6	Assistant Professor	Assistant Professor		Regular	Yes
4	Sagar Jani	XXXXXXXX30A	M.E.	Gujarat Technological University	Computer aided Process Design	19/09/2019	6.9	Assistant Professor	Assistant Professor		Regular	Yes
5	Monika Patel	XXXXXXXX34Q	M.E.		Chemical Engineering	02/09/2019	6.10	Assistant Professor	Assistant Professor		Regular	Yes
6	Jigisha Modi	XXXXXXXX35R	Ph.D	VNSGU	Pharmaceutical Chemistry	01/10/2013	12.2	Assistant Professor	Associate Professor	01/07/2022	Regular	No
7	Nilesh Badgujar	XXXXXXXX65N	M.E. and Ph.D.	North Maharastra University	Chemical Technology	27/06/2014	12	Assistant Professor	Professor	01/09/2025	Regular	Yes

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (SFR) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	22	22	22
UG1.C	22	22	33
UG1.D	22	33	33
UG1: Chemical Technology	66	77	88
DS=Total no. of students in all UG and PG programs in the Department	66	77	88
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 66	S2= 77	S3= 88
DF=Total no. of faculty members in the Department	6	7	7
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 6	F2= 7	F3= 7
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 11.00	SFR2= 11.00	SFR3= 12.57
Average SFR for 3 years	SFR= 11.52		

C3. Faculty Qualification

- Faculty qualification index (FQI) = 2.5 * [(10X +4Y)/RF] where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF]]
2025-26(CAY)	2	4	3.00	30.00
2024-25(CAYm1)	3	4	3.00	38.33
2023-24(CAYm2)	3	4	4.00	28.75

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = 1/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
- RF2= No. of Associate Professors required = 2/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- RF3= No. of Assistant Professors required = 6/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	0.00	1.00	1.00	1.00	2.00	4.00
2024-25	0.00	1.00	1.00	2.00	3.00	4.00
2023-24	0.00	1.00	1.00	2.00	3.00	4.00
Average	RF1=0.00	AF1=1.00	RF2=1.00	AF2=1.67	RF2=2.67	AF2=4.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

(CAYm2)

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Sandip Gite	Director	Credit Pharma	Process Technology of Drugs & Intermediates & Nanotechnology	35.00
2	Ritesh Rajput	Director	Credit Pharma	Technology of Sterile Dosage Forms & Pharmaceutical Packaging Technology	40.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	9	1	2
2	No. of peer reviewed conference papers published	0	0	0
3	No. of books/book chapters published	0	1	0

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: NIL

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	Air dispersion study through AERMOD	Green Hydrogen Energy Services Pvt. Ltd.	1 year	4.05
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	Dispersion analysis of flare stack of PPG Asian paints Pvt. Ltd., Dahej	Asian paints Pvt. Ltd., Dahej	1 year	1.20
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	CFD Results analysis using FLACS tools for confined vapor cloud explosion case	DEKRA(India) Pvt. Ltd.	1 year	0.55
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	CFD Dispersion Studies in FLACS	GEXCON India	1 year	15.75
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	HAZOP Study of FBC Boiler at BEIL, Ankleshwar	BEIL, Ankleshwar	1 year	0.50
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	3D modelling, QRA, Consequence & Risk Analysis study and Gas mapping study for proposed project at Unit-1	UPL Ltd., Ankleshwar	1 year	1.10
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	Consequence analysis(dispersion) study of CS2 plant at UPL Unit-5	UPL Ltd., Vapi	1 year	2.35
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	3D modelling consequence & Risk analysis study for SP-32 plant at UPL-12 unit	UPL Ltd., Vapi	1 year	1.35
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	2D modelling, QRA, Consequence & Risk analysis study for proposed pilot plant at UPL Vapi unit	UPL Ltd., Vapi	1 year	1.75
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	3D modelling, Consequence & Risk analysis study for BD-364 plant	UPL Ltd., Vapi	1 year	2.95
Dr. Omprakash Mahadwad	Dr. Shrikant J. Wagh	UPL University of Sustainable Technology	HAZOP training study for Zydus Life Science Ltd., (U-2), Ankleshwar	Zydus Life Sciences Ltd.	1 year	0.60
						Amount received (Rs.):32.15

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology, ARES	3D CFD Consequence & Risk Analysis, hydrogen for Firmenich Dahej	Firmenich Dahej	1 year	0.75
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology, ARES	QRA for different chemicals for Deepak Nitrite	Deepak Nitrite	1 year	2.25
Omprakash Mahadwad	Shrikant Wagh	UPL University of Sustainable Technology, ARES	3D Modelling and Risk Analysis studies for Valiant Organics Ltd., Jhagadia	Valiant Organics Ltd.	1 year	1.30
Omprakash Mahadwad	Govind K. Patil	UPL University of Sustainable Technology, ARES	QRA study of Chemical storage facility	Bayer Vapi Pvt. Ltd.	1 year	18.08
Shrikant Wagh	Omprakash Mahadwad	UPL University of Sustainable Technology, ARES	QRA study for Chlorine Shed	Tagros Chemicals Pvt. Ltd.	1 year	1.75
						Amount received (Rs.):24.13

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	3D CFD Consequence & Risk Analysis, Gas dispersion Modelling for UPL Unit-10	UPL Ltd.	1 year	4.25
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	3D CFD Consequence & Risk Analysis, Dry HCI leakage for UPL Unit-2	UPL Ltd.	1 year	2.50
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	3D CFD Consequence & Risk Analysis, CHO,SO2,HCI gas and Heptane vent for UPL Unit-12	UPL Ltd.	1 year	5.50
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	Consequence Analysis using FLACS software & Risk Analysis studies for Sajjan India	UPL Ltd.	1 year	2.20
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	Gas Mapping using FLACS software & Risk Analysis studies for Sajjan India	Sajjan India	1 year	3.40
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	HAZOP study for H2S mitigation and ALE demoisturisation project	UPL Unit-5	1 year	1.60
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	HAZOP study for preparation of AEN	UPL Unit-2	1 year	0.90
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	PHA Study for GCPL Terminal	GCPL	1 year	3.20
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	3D CFD Consequence & Risk Analysis for Deepak Nitrite	Deepak Nitrite	1 year	1.50
Shina Gautam	Omprakash Mahadwad	UPL University of Sustainable Technology,ARES	Consequence Analysis using FLACS software & Risk Analysis studies for Convergence Hydrogen facility	Convergence, Dahej	1 year	5.80
						Amount received (Rs.):30.85

Total amount (Lacs) received for the past 3 years: 87.13

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years :

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Pharmaceutical Technology	3	Hot air Oven	Medicinal Cher	Amita Parmar	Laboratory Asst	B. Pharmacy
2	Pharmaceutical Technology	3	Mechanical Stirrer with Assembly	Medicinal Cher	Amita Parmar	Laboratory Asst	B. Pharmacy

3	Pharmaceutical Technology	3	Heating Mantle	Medicinal Cher	Amita Parmar	Laboratory As	B. Pharmacy
4	Pharmaceutical Technology	3	Electronic Balance	Medicinal Cher	Amita Parmar	Laboratory As	B. Pharmacy
5	Pharmaceutical Technology	3	Vacuum Pump	Medicinal Cher	Amita Parmar	Laboratory As	B. Pharmacy
6	Pharmaceutical Technology	3	Tablet Dissolution Test Apparatus	Pharmaceutica	Amita Parmar	Laboratory As	B. Pharmacy
7	Pharmaceutical Technology	3	Tablet Disintegration Apparatus	Pharmaceutica	Amita Parmar	Laboratory As	B. Pharmacy
8	Pharmaceutical Technology	3	Hand Operated Tablet Press Machine	Pharmaceutica	Amita Parmar	Laboratory As	B. Pharmacy
9	Polymer Testing Lab	10	UTM Machine	Polymer materi	Pintu Prasad	Laboratory As	B.Sc.
10	Polymer Processing Lab	4	Two Roll Mill	Polymer & Rub	Amita Parmar	Laboratory As	B. Pharmacy
11	Polymer Processing Lab	4	Extruder	Polymer & Rub	Amita Parmar	Laboratory As	B. Pharmacy
12	Polymer Processing Lab	4	Compression Machine	Polymer & Rub	Amita Parmar	Laboratory As	B. Pharmacy
13	Polymer Processing Lab	4	Extruder	Polymer Blend:	Amita Parmar	Laboratory As	B. Pharmacy
14	Polymer Processing Lab	4	Two Roll Mill	Polymer Blend:	Amita Parmar	Laboratory As	B. Pharmacy
15	Polymer Testing Lab	4	UTM Machine	Polymer materi	Amita Parmar	Laboratory As	B. Pharmacy
16	Analytical Techniques Lab	2	UV Cabinet	Analytical Tech	Pintu Prasad	Laboratory As	B.Sc.
17	Analytical Techniques Lab	2	Weighing Balance	Analytical Tech	Pintu Prasad	Laboratory As	B.Sc.
18	Analytical Techniques Lab	2	Hot air Oven	Analytical Tech	Pintu Prasad	Laboratory As	B.Sc.
19	Analytical Techniques Lab	2	Photo Colorimeter	Analytical Tech	Pintu Prasad	Laboratory As	B.Sc.
20	Analytical Techniques Lab	2	Melting point Appartus	Analytical Tech	Pintu Prasad	Laboratory As	B.Sc.
21	Analytical Techniques Lab	2	PH Meter	Physical Chem	Pintu Prasad	Laboratory As	B.Sc.
22	Analytical Techniques Lab	2	Colorimeter	Physical Chem	Amita Parmar	Laboratory As	B. Pharmacy
23	Glass & Ceramics Lab	2	Raising Hearth Furnace	Refractories-I,	Amita Parmar	Laboratory As	B. Pharmacy
24	Glass & Ceramics Lab	2	Planetary Ball Mill	Process Cerarr	Amita Parmar	Laboratory As	B. Pharmacy
25	Glass & Ceramics Lab	2	Muffle Furnace	Refractories-II	Amita Parmar	Laboratory As	B. Pharmacy
26	Dyes & Pigment Tech.	3	Magnetic Stirrer with temp. regulator(max 100 deg C)	Chemistry and	Mr. Pintu Pra	Laboratory As	B. Sc
27	Dyes & Pigment Tech.	3	Mechanical Stirrer	Chemistry and	Mr. Pintu Pra	Laboratory As	B. Sc

28	Dyes & Pigment Tech. //	3	Filtration assembly with pump //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc
29	Dyes & Pigment Tech. //	3	Infracolour //	Technology of I	Mr. Pintu Pra: Laboratory A: B. Sc
30	Dyes & Pigment Tech. //	3	Weighing balance //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc
31	Dyes & Pigment Tech. //	3	Padding Mangal //	Technology of I	Mr. Pintu Pra: Laboratory A: B. Sc
32	Dyes & Pigment Tech. //	3	Heating mantle //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc
33	Dyes & Pigment Tech. //	3	Hegman Gauge //	Evaluation and	Mr. Pintu Pra: Laboratory A: B. Sc
34	Dyes & Pigment Tech. //	3	Ball Mill //	Evaluation and	Mr. Pintu Pra: Laboratory A: B. Sc
35	Dyes & Pigment Tech. //	3	PH Meter //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc
36	Dyes & Pigment Tech. //	3	Ice maker //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc
37	Dyes & Pigment Tech. //	3	Heating mantle //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc
38	Dyes & Pigment Tech. //	3	Overhead mechanical stirrer motor with stand //	Chemistry and	Mr. Pintu Pra: Laboratory A: B. Sc

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Pharmaceutical Technology Lab Polymer & Rubber Technology Synthesis Lab Polymer & Rubber Technology Processing Lab Polymer & Rubber Technology Testing Lab	Material Safety Data Sheets Safety gloves and goggles Proper earthing provided MCB unit Safety charts Fire Extinguisher audit periodically Conducted orientation program on Lab Safety

D3. Project Laboratory/Research Laboratory

Project laboratory/research laboratory /centre of excellence (20)

The students are allowed to carry out their projects work in the laboratories available. Details of project laboratories are given as per Table B.7.5.1.

Table B.7.5.1 Details of project laboratories

Sr. No	Laboratory	Facility Name	Reason(s) for creating facility	Utilization	Branch & Semester	Areas in which students are expected to have enhanced learning	Relevance to POs & PSOs
1	Project Lab	Distillation column	To use the distilled water for development of quality product	03 hrs.	CT 3, 4, 5, 6 & 7 Sem.	Process development and recovery of product	PO-1, 2, 3 4,7 PSO-1
2	Project Lab	Oil Bath Round double wall	To Use for heat up chemical reactions	03 hrs.	CT 3, 4, 5, 6 & 7 Sem.	Higher temp. heating	PO-1, 9 PSO-1
3	Project Lab	PH meter	Used to measure hydrogen ion activity in solutions	03 hrs.	CT 3, 4, 5, 6 & 7 Sem.	Measurement of PH digitally at various concentration	PO-1, 9 PSO-1
4	Project Lab	Vacuum Oven	To explain the drying under vacuum allows liquids to evaporate at temperatures below the regular boiling point	03 hrs.	CT 3, 4, 5, 6 & 7 Sem.	Safer drying	PO-1, 9 PSO-1

Details of Centre of Excellence, CoE

Centre of Excellence in Process Safety is under the institutes named SRICT and UPL University of sustainable Technology

The main Objective of this centre is to:

- Enhance safety expertise at industrial working sites.
- Reduce these accidents by providing start to finish technical safety solution under single center.
- Assisting industries in implementation of Process Safety Management.
- Maintaining database of accidents with analysis for learning and implantation
- High Value Learning Audits of accidents and recommendations
- Development of Virtual Reality (VR)/ Augmented Reality (AR) training programs
- Various academic programs in Process safety
- Research and Development in Process Safety
- Certification courses at different levels.
- Increase awareness in all workers in the industries.

MOU between Shroff S.R. Rotary institute of chemical technology and Directorate of Industrial Safety and Health, Gov. of Gujarat was made on 28th October, 2021 at Gandhinagar.

Table B.7.5.2 Projects done by Centre of Excellence:

Sr. No.	Date of Project	Name of Industry	Team members	Project details	Relevance to Pos/PSOs
01	Nov 12, 2022	UPL unit 5	Prof Shrikant Wagh, Dr. Omprakash Mahadwad, Dr Shina Gautam, Dr. Alok Gautam	Consequence Analysis using FLACS software & Risk Analysis Studies for Storage	PO1, PO2, PO4, PO5, PO6, PO7/ PSO1, PSO2, PSO3

02	Jan 05, 2023	UPL unit 12	Prof Shrikant Wagh, Dr. Omprakash Mahadwad, Dr Shina Gautam, Dr. Alok Gautam	3D CFD Consequence & Risk Analysis, CO vent for UPL Unit 12	PO1, PO2, PO4, PO5, PO6/ PSO1, PSO2, PSO3
03	Jan 12, 2023	UPL unit 5	Prof Shrikant Wagh, Dr. Omprakash Mahadwad, Dr Shina Gautam, Dr. Alok Gautam	3D CFD Consequence & Risk Analysis, H2S and SO2 for UPL Unit 5	PO1, PO2, PO4, PO5, PO6/ PSO1, PSO2, PSO3
04	After 30-8 2023	UPL Unit 12	Prof Shrikant Wagh, Dr. Omprakash Mahadwad, Dr. Rakesh Sinha	2D CFD Consequence & Risk Analysis, HCl/SO2 and thionyl chloride vent for UPL Unit 12	PO1, PO2, PO4, PO5, PO6/PSO1, PSO3
05	After 15-12 2023	UPL 01	Prof Shrikant Wagh, Dr. Omprakash Mahadwad, Dr. Rakesh Sinha, Dr. Ravindra Kanawade	CA, QRA & F&G mapping using RISK & EFFECTS (2D) software for UPL 01 Kudos	PO1, PO2, PO4, PO5, PO6, PO11/PSO1, PSO3
06	After 25-02 2024	BEIL, Ankleshwar	Prof Shrikant Wagh, Dr. Omprakash Mahadwad, Dr. Rakesh Sinha, Dr. Ravindra Kanawade	QRA study of LNG line for BEIL, Ankleshwar	PO1, PO2, PO4, PO5, PO6, PO7, PO11/PSO1, PSO3

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	240	12	4	12	47
2024-25(CAYm1)	280	14	4	16	46
2025-26(CAY)	280	14	4	16	46

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	77050000	30901816	17875000	11294572	127045000	1000573247	40405000	22754299
Library	1300000	977983	1714864	1346809	1600000	1747591	1585000	145020
Laboratory equipment	17304000	24927780	13200000	9720283	16678000	4970188	14621000	7459845
Teaching and non-teaching staff	134633380	138264135	128197089	118031695	114779000	111265789	98044000	94551985
Outreach Programs	0	0	0	0	0	0	0	0
R&D	0	0	0	0	0	0	0	0
Training, Placement and	1100000	2460876	1200000	1277823	1400000	1164522	1400000	1365223
SDGs	0	0	0	0	0	0	0	0
Entrepreneurship	0	0	0	0	0	0	0	0
Others, specify	92400029	61954312	79141708	76799254	72070949	80426129	6500000	4483263
Total	323787409	259486902	241328661	218470436	333572949	1200147466	162555000	130759635

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	100000	9528	125000	112171	30000	25766	246000	0
Software	0	0	0	0	0	0	0	0
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	10000	7785	20000	12782	10000	5192	20000	13348
R & D	0	0	0	0	0	0	0	0
Industrial Training, Industry expert,	200000	159300	100000	87219	30000	12435	400000	36805
Salaray and Other Misc	13407348.00	11549351.00	12637438.00	10400758.00	12195378.00	10085367.00	10741504.00	9105206.00
Total	13717348.00	11725964.00	12882438.00	10612930.00	12265378.00	10128760.00	11407504.00	9155359.00