

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Chemical Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 1
Application No: 10605	Date of Submission: 16-05-2025

PART A- Profile of the Institute

A1. Name of the Institute: University College of Technology	
Year of Establishment : 1969	Location of the Institute: Osmania University Campus, Hyderabad - 500 007, Telangana
A2. Institute Address: University College of Technology, Osmania University, Hyderabad - 500007	
City:Hyderabad Urban	State:Andhra Pradesh
Pin Code:500007	Website:www.ouct.ac.in
Email:uctou1969@gmail.com	Phone No(with STD Code):040-27098472
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Osmania University	City: Hyderabad Urban
State : Telangana	Pin Code: 500007
A4. Type of the Institution: Any Other(Please Specify)	
A5. Ownership Status: State Government	

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

- No. of UG programs: 3
- No. of PG programs: 9

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	PG	Apparel Technology	2014	--	Textile Technology
2	Engineering & Technology	PG	Biotechnology And Biochemical Engineering	2006	--	Chemical Engineering
3	Engineering & Technology	UG	Chemical Engineering	1951	--	Chemical Engineering
4	Engineering & Technology	PG	Chemical Reaction Engineering	1965	--	Chemical Engineering
5	Engineering & Technology	PG	Chemical Technology	1969	--	Chemical Engineering
6	Engineering & Technology	PG	Environmental Engineering	2013	--	Chemical Engineering
7	Engineering & Technology	PG	Food Processing Technology	2014	--	Food Technology
8	Engineering & Technology	UG	Food Technology	1994	--	Food Technology
9	Engineering & Technology	PG	Material Science & Technology	1969	--	Chemical Engineering
10	Engineering & Technology	PG	Plant Design	1965	--	Chemical Engineering
11	Engineering & Technology	PG	Process Dynamics & Control	1965	--	Chemical Engineering
12	Engineering & Technology	UG	Textile Technology	1994	--	Textile Technology

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 Engineering	Yes	Chemical Engineering	UG
Food Technology	Yes	Food Technology	UG
Textile Technology	Yes	Textile 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)

Allied Department/Cluster Name	Program Name	Program Level
Food Technology	Food Technology	UG
Textile Technology	Apparel Technology	PG
Textile Technology	Textile Technology	UG
Food Technology	Food Processing Technology	PG

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/COMPETENT AUTHORITY ARROVAL DETAILS
1	Chemical Engineering	UG	1951 / - -	60	No	NA	60	1951	F.No. South-Central/1-43664631644/2024/EOA

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	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/C AUTHOR DETAILS
1	Food Technology	Food Processing Technology	PG	2014 / - -	18	No	NA	18	2014	F.No. Sou 4366463
2	Food Technology	Food Technology	UG	1994 / - -	20	Yes	2022	60	2022	F.No. Sou 4366463

Sanctioned Intake for Last Five Years for the Food Technology

Academic Year	Sanctioned Intake
2024-25	60
2023-24	60
2022-23	60
2021-22	30
2020-21	30
2019-20	20

3	Textile Technology	Textile Technology	UG	1994 / - -	20	Yes	2022	60	2022	F.No. Sou 4366463
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Sanctioned Intake for Last Five Years for the Textile Technology

Academic Year	Sanctioned Intake
2024-25	60
2023-24	60
2022-23	60
2021-22	30
2020-21	30
2019-20	20

4	Textile Technology	Apparel Technology	PG	2014 / - -	18	No	NA	18	2014	F.No. Sou 4366463
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B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Prof. S. Srinu Naik
B. Nature of appointment:	Regular
C. Qualification:	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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	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	60	58	57	60	43	57	57
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	6	6	6	6	6	6
N3=Separate division if any	0	1	0	0	17	2	2
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.	60	65	63	66	66	65	65

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]
2024-25 (CAY)	60	60	0	100.00
2023-24 (CAYm1)	60	58	0	96.67
2022-23 (CAYm2)	60	57	0	95.00

Average [(ER1 + ER2 + ER3) / 3] = 97.22= 20.00

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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	66.00	66.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	64.00	64.00	66.00
Success Rate (SR)= (B/A) * 100	96.97	96.97	100.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 97.98

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	6.81	6.25	6.95
Y=Total no. of successful students	62.00	52.00	54.00

Z=Total no. of students appeared in the examination	58.00	57.00	60.00
API [X*(Y/Z)]	7.28	5.70	6.26

Average API [(AP1+AP2+AP3)/3] : 6.41

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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 2rd year/10)	7.31	7.23	7.36
Y=Total no. of successful students	57.00	59.00	65.00
Z=Total no. of students appeared in the examination	57.00	60.00	49.00
API [X * (Y/Z)]	7.31	7.11	9.76

Average API [(AP1 + AP2 + AP3)/3] : 8.06

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	8.03	7.28	7.40
Y=Total no. of successful students	59.00	64.00	65.00
Z=Total no. of students appeared in the examination	59.00	65.00	65.00
API [X*(Y/Z)]:	8.03	7.17	7.40

Average API [(AP1 + AP2 + AP3)/3] : 7.53

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	66.00	66.00	66.00
X=No. of students placed	43.00	28.00	42.00
Y=No. of students admitted to higher studies	8.00	16.00	15.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	77.27	66.67	86.36

Average Placement Index = (P_1 + P_2 + P_3)/3: 76.77 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)	Current Associ (Y/N)
1	Prof. V.V. Basava Rao	XXXXXXXX86A	Ph.D	Osmania University	Chemical Engineering	08/08/1997	26.11	Associate Professor	Professor	23/09/2005	Regular	No
2	Prof. Ch. Sailu	XXXXXXXX32A	Ph.D	Osmania University	Chemical Engineering	23/09/1997	27.7	Associate Professor	Professor	30/12/2006	Regular	Yes
3	Prof. G. Prabhaker Reddy	XXXXXXXX76P	Ph.D	Osmania University	Chemical Engineering	04/08/1997	27.1	Assistant Professor	Professor	04/08/2010	Regular	No
4	Prof. V. Ramesh Kumar	XXXXXXXX18R	Ph.D	Osmania University	Chemical Engineering	11/08/1997	27.8	Assistant Professor	Professor	11/08/2010	Regular	Yes
5	Prof. P. Raja Rao	XXXXXXXX98K	Ph.D	Osmania University	Biotechnology	24/09/1991	31.1	Assistant Professor	Professor	22/02/2014	Regular	No
6	Prof. S. Srinu Naik	XXXXXXXX53G	Ph.D	Osmania University	Chemical Engineering	13/12/2013	11.4	Assistant Professor	Professor	30/06/2020	Regular	Yes

7	Dr. T. Jyothi	XXXXXXX72B	Ph.D	Osmania University	Chemical Engineering	01/02/2018	7.2	Assistant Professor	Assistant Professor		Regular	Yes
8	Dr. P. Sunitha (Contract)	XXXXXXX73J	Ph.D	Osmania University	Chemical Engineering	08/05/2009	16	Assistant Professor	Assistant Professor		Regular	Yes
9	Dr. B. Parameswarlu (Contract)	XXXXXXX05P	Ph.D	Osmania University	Chemical Engineering	11/10/2010	14.7	Assistant Professor	Assistant Professor		Regular	Yes
10	Dr. P. Sri Durga(Contract)	XXXXXXX19J	Ph.D	Osmania University	Chemical Engineering	13/08/2012	12.9	Assistant Professor	Assistant Professor		Regular	Yes
11	Dr. A. Vijaykanth (Contract)	XXXXXXX78B	Ph.D	Osmania University	Chemical Engineering	01/08/2013	11.9	Assistant Professor	Assistant Professor		Regular	Yes
12	Dr A. Abhilash (Contract)	XXXXXXX16F	Ph.D	Osmania University	Chemical Engineering	24/03/2014	11.1	Assistant Professor	Assistant Professor		Regular	Yes
13	Dr. T. Ajit Kumar (Contract)	XXXXXXX96L	Ph.D	Osmania University	Chemical Engineering	24/03/2014	11.1	Assistant Professor	Assistant Professor		Regular	Yes
14	Dr. A. Vijaya Laxmi (Contract)	XXXXXXX25G	Ph.D	Osmania University	Chemical Engineering	01/08/2013	11.9	Assistant Professor	Assistant Professor		Regular	Yes
15	Dr. A. Ravindar (Contract)	XXXXXXX19G	Ph.D	Osmania University	Biotechnology	24/04/2014	11	Assistant Professor	Assistant Professor		Regular	Yes
16	Dr. P. Aruna Devi (Contract)	XXXXXXX72D	Ph.D	Osmania University	Pharmaceutical Chemistry	10/10/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes
17	Dr. M. Ramesh (Contract)	XXXXXXX16M	Ph.D	Osmania University	Mathematics	08/09/2010	14.8	Assistant Professor	Assistant Professor		Regular	Yes
18	Dr. Sadar Jaspal Singh (Contract)	XXXXXXX96E	Ph.D	Osmania University	Mechanical Engineering	16/10/2012	12.7	Assistant Professor	Assistant Professor		Regular	Yes
19	Dr. A. Kiran Kumar	XXXXXXX23P	Ph.D	Osmania University	Chemistry	01/04/2008	17.1	Assistant Professor	Assistant Professor		Regular	Yes
20	Dr. T. Venkateshwarlu (Contract)	XXXXXXX93R	Ph.D	Osmania University	Chemistry	06/12/2006	18.5	Assistant Professor	Assistant Professor		Regular	Yes
21	M. Meena (Contract)	XXXXXXX46G	M.Tech	Osmania University	Computer	05/10/2012	12.7	Assistant Professor	Assistant Professor		Regular	Yes

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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)
1	Dr. Jyothi Kiran Singh (Contract)	XXXXXXX44G	NA	Ph.D	Osmania University	Food Technology	24/04/1997	26.11	Assistant Professor	Assistant Professor		Regular
2	Sri. D. Kodanda Ram Reddy (Contract)	XXXXXXX31O	NA	M.Tech	Osmania University	Food Technology	26/08/2011	12.2	Assistant Professor	Assistant Professor		Regular
3	Dr. R. Renu (Contract)	XXXXXXX47G	NA	Ph.D	Osmania University	Food Technology	01/08/2013	11.9	Assistant Professor	Assistant Professor		Regular
4	Smt. Shaik Shakera (Contract)	XXXXXXX03M	NA	M.Tech	Osmania University	Food Technology	25/01/2021	4.3	Assistant Professor	Assistant Professor		Regular
5	Prof. J. Hayavadana	XXXXXXX72G	NA	Ph.D	Osmania University	Textile Technology	30/07/1997	27.9	Associate Professor	Professor	07/06/2007	Regular
6	Dr. D. Arjun (Contract)	XXXXXXX44C	NA	Ph.D	Osmania University	Textile Technology	13/08/2012	12.9	Assistant Professor	Assistant Professor		Regular
7	Dr K. Srinivasulu (Contract)	XXXXXXX69B	NA	Ph.D	Osmania University	Textile Technology	13/08/2012	12.9	Assistant Professor	Assistant Professor		Regular
8	Dr. N. Dhiraj Kumar (Contract)	XXXXXXX08E	NA	Ph.D	Osmania University	Textile Technology	27/12/2008	16.4	Assistant Professor	Assistant Professor		Regular

9	Dr. A. Kavitha (Contract)	XXXXXXX35C	NA	Ph.D	Osmania University	Textile Technology	13/08/2001	23.9	Assistant Professor	Assistant Professor		Regular
10	Dr. B. Rajam	XXXXXXX40R	NA	Ph.D	Osmania University	Chemical Engineering	28/08/2004	20.8	Assistant Professor	Professor	28/08/2020	Regular
11	Dr. A. Parshuramulu (Contract)	XXXXXXX95N	NA	Ph.D	Osmania University	Mechanical Engineering	15/11/1999	25.6	Assistant Professor	Assistant Professor		Regular
12	Dr. B. Narayana (Contract)	XXXXXXX11G	NA	Ph.D	Osmania University	Mechanical Engineering	07/10/2006	18.7	Assistant Professor	Assistant Professor		Regular
13	Dr. A. Krishnam Raju	XXXXXXX23K	NA	Ph.D	Osmania University	Chemistry	06/09/2013	11.8	Assistant Professor	Associate Professor	09/09/2021	Regular
14	Dr. K. M. Praveena	XXXXXXX21L	NA	Ph.D	Osmania University	English	19/01/2024	1.3	Professor	Professor		Regular
15	Dr. V. Bhasker (Contract)	XXXXXXX79H	NA	Ph.D	Osmania University	Food Technology	16/01/2010	15.4	Assistant Professor	Assistant Professor		Regular
16	Sri. Kondamagundla Sreenu (Contract)	XXXXXXX84J	NA	M.Tech	Osmania University	Textile Technology	25/01/2021	4.3	Assistant Professor	Assistant Professor		Regular
17	Kalyani Manoj (Contract)	XXXXXXX13A	NA	M.Tech	Osmania University	Textile Technology	26/09/2023	1.7	Assistant Professor	Assistant Professor		Regular
18	Donakonda Pranyusha (Contract)	XXXXXXX24B	NA	M.Tech	Osmania University	Food Technology	04/03/2024	1.2	Assistant Professor	Assistant Professor		Regular
19	Adepu Ramyasree (Contract)	XXXXXXX42D	NA	M.Tech	Osmania University	Food Technology	04/03/2024	1.2	Assistant Professor	Assistant Professor		Regular
20	Chandane Kranthi Kiran (Contract)	XXXXXXX94R	NA	M.Tech	Osmania University	Food Technology	04/03/2024	1.2	Assistant Professor	Assistant Professor		Regular
21	Bhagotham Shravani (Contract)	XXXXXXX29R	NA	M.Tech	Osmania University	Textile Technology	23/09/2023	1.7	Assistant Professor	Assistant Professor		Regular

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=pth 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 Department3 No. of PG Programs in the Department9

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Chemical Engineering	198	198	198
UG2.B	66	65	33
UG2.C	65	33	33
UG2.D	33	33	22
UG2: Textile Technology	164	131	88
UG3.B	60	60	30

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG3.C	60	30	30
UG3.D	30	30	20
UG3: Food Technology	150	120	80
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Apparel Technology	36	36	36
PG2.A	18	18	18
PG2.B	18	18	18
PG2: Biotechnology And Biochemical Engineering	36	36	36
PG3.A	18	18	18
PG3.B	18	18	18
PG3: Chemical Reaction Engineering	36	36	36
PG4.A	12	12	12
PG4.B	12	12	12
PG4: Chemical Technology	24	24	24
PG5.A	18	18	18
PG5.B	18	18	18
PG5: Environmental Engineering	36	36	36
PG6.A	18	18	18
PG6.B	18	18	18
PG6: Food Processing Technology	36	36	36
PG7.A	18	18	18
PG7.B	18	18	18
PG7: Material Science & Technology	36	36	36
PG8.A	18	18	18
PG8.B	18	18	18
PG8: Plant Design	36	36	36
PG9.A	18	18	18
PG9.B	18	18	18
PG9: Process Dynamics & Control	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	438	438	438
AS=Total no. of students of all UG and PG programs in allied departments	386	323	240
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 824	S2= 761	S3= 678
DF=Total no. of faculty members in the Department	18	20	20
AF= Total no. of faculty members in the allied Departments	19	13	15
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 37	F2= 33	F3= 35
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= 22.27	SFR2= 23.06	SFR3= 19.37
Average SFR for 3 years	SFR= 21.57		

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	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2024-25(CAY)	28	9	28.00	28.21
2023-24(CAYm1)	27	6	25.00	29.40
2022-23(CAYm2)	22	9	21.00	30.48

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
- RF2= No. of Associate Professors required = $2/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- RF3= No. of Assistant Professors required = $6/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- 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
2024-25	3.00	6.00	6.00	1.00	19.00	30.00
2023-24	2.00	7.00	5.00	1.00	16.00	25.00
2022-23	2.00	7.00	4.00	1.00	14.00	27.00
Average	RF1=2.33	AF1=6.67	RF2=5.00	AF2=1.00	RF2=16.33	AF2=27.33

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)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. G. B. Reddy	Professor	College of Law, OU	Induction program	1.50
2	Dr. B Sudarsahan	Professor	Nizam College, Hyd	Induction program	1.50
3	Dr. B. Bramananda Chary	Retd. Principal	Govt Degree College	Induction program	1.50
4	Dr. Anupama	Professor	University College of Arts& Social Sciences	Induction program	1.50
5	Dr.Achala Munigal	Professor	University Library	Induction program	1.50
6	Dr. VenkatRajaiah	Professor	Institute	Induction program	1.50
7	Prof. V. Usha Kiran	Professor	Institute	Induction program	1.50

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Sri Hari Medha Dasa	Motivational Speaker	Prabhujji of Hare Rama Hare Krishna	Induction program	2.00
2	Prof. G. B. Reddy	Professor	Univ. College of Law, OU, Hyd	Induction program	3.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.Ch. Srinivas	Associate Professor	College of Science Osmania University	Induction program	2.00
2	Prof. K. Shyamala	Professor	UCE, Osmania University	Induction program	1.50
3	Dr. Achala Munigal	Associate Professor	University Library	Induction program	1.50
4	Dr. Avula Laxmaiah	Director Grade Scientist(G)	Public Health Nutrition, NIN	Induction program	1.50
5	Bharah Babu Puram	Director (Technical)	Oil and Gas Engineering Service	Induction program	1.50
6	Dr. Dinesh Kumar	(Retd.Scientist G)	ICMR,NIN	Induction program	1.50
7	Smt. Sandhya Chandrasekhar	Wellness Consultant and Thought Trainer	Genex Consultants	Induction program	1.50
8	Prof. Sriram Venkatesh	Professor	UCE, OU	Induction program	2.00
9	Dr. Konda Nageshwar Rao	Associate Professor	University College of Arts& Social Sciences, Osmania University	Induction program	2.00
10	Prof. M. Vijjulatha	Principial, Koti Womens College	Osmania University	Induction program	1.50

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	50	65	65
2	No. of peer reviewed conference papers published	40	40	40
3	No. of books/book chapters published	2	1	1

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research 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. Jyothi Thati	Abhilash A	Chemical Engineering	Waste water treatment and electricity production using Microbial fuel cell	MSMCE	2 years (2022-24)	15.00
Dr. S. Iliaiah		Chemical Engineering	Process Intensification Using Microchannel Reactors and Rotating Packed Beds	1974-1979 (Alumni Batch Support)	Two years Ongoing (2024)	5.00
Dr. Jyothi Thati		Chemical Engineering	Crystallization of Pharmaceutical compounds	UGC	2 years (2024-26)	10.00
Dr. Jyothi Thati		Chemical Engineering	Recovery of Valuable and Rare Earth Elements Using Anti Solvent Crystallization Method	OUCTAA	1 year (2023-24)	6.18
						Amount received (Rs.):36.18

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

Total Amount (Lacs) Received for the Past 3 Years: 36.18

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. Ramesh Kumar	A Vijaykanth	Chemical Engineering	Studies on novel and intensified process for the production of N,N-Dimethyl formamide dimethylacetal; Production of I-S-(2-Chloroacetyl)pyrrolidine-2-carbonitrile	Phyton Life Sciences	1 year	3.24
						Amount received (Rs.):3.24

(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
Dr. Ramesh Kumar	A Vijaykanth	Chemical Engineering	Studies on novel and intensified process for the production of N,N-Dimethyl formamide dimethylacetal; Production of I-S-(2-Chloroacetyl)pyrrolidine-2-carbonitrile	Phyton Life Sciences	1 Year	3.24
						Amount received (Rs.):3.24

(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
Prof. Raja Rao	Prof. R Shyamsunder / A Vijaykanth	Chemical Engineering	Studies on novel and intensified process for the production of N,N-Dimethyl formamide dimethylacetal	Phyton Life Sciences	1 Year	3.24
						Amount received (Rs.):3.24

Total amount (Lacs) received for the past 3 years: 9.72

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	Fluid Mechanics	3	Calibration of Orificemeter, Venturimeter, Rotameter & Wier meter, Bernoulli apparatus, Frictional losses	5 days	Syed Fazal AI	Lab Attendan	7th, ITI
2	Heat Transfer	3	Thermal conductivity of metal rod, Condensation apparatus, Coil Heat Exchanger, Double pipe heat	5 days	Syed Fazal AI	Lab Attendan	7th, ITI
3	Mass Transfer Operations	3	• Packed bed Distillation Column • Tray Drier • Stefans Diffusion cell • Fluidized Bed drier • Graham's cell	3 days	Md.Anwar	Lab Attender	10th
4	Mechanical Unit Operations	3	Ball Mill, Vibrating Screens, Stoke's law	3 days	Yadagiri	Attender	5th
5	Process Dynamics and Control	3	1. Computer control of liquid level in a cylindrical tank. 2. Computer control of pressure in tank 2	4 days	B. Kankamma	Lab Attender	5th
6	Computer Programming Lab	1	62 computers COMSOL, MATLAB with Simulink, Chem Office, LabView & Pro-II	6 days	M. Sunil Kum	Lab Asst.	B. Tech
7	Chemical Reaction Engineering	3	Mixed flow reactors, Plug flow reactors, Packed & Tubular column, Plug reactor	3 days	K.Naresh Red	Lab Assistant	MSc, SSC
8	Process Equipment design and drawing	3	• Drawing tables • Code Book, • Ammonia prints of a) Storage vessel, b) Vent Condenser c) Distillation	3 days	Mrs. Rajya La	Lab Assistant	Diploma in Ci
9	General Chemical Technology	3	Muffle furnace	3 days	Naresh Reddy	Lab Assistant	MSc, SSC
10	Polymer Engineering and Technology	3	U-Tube Viscometer, Digital melting point apparatus, Injection Moulding Machine, Melt Flow Index Apparatus	1 day	Mr.Ibrahim	Lab Assistant	ITI
11	Technology of Pharmaceuticals & Fine	3	• Rotary tablet punching machine, Dissolution apparatus • Disintegration apparatus, Friabilator	3 days	B.Vijaya, Dev	Lab Technician	Diploma, 10th
12	Technology of Refractories & Furnaces	3	Hydraulic Press, Muffle furnace, Oven, Weighing machine Hardness tester, Glass blower setup	1 day	Shaik Mastan	Lab Assistant	SSC
13	Chemistry Lab	3	pH meter. Conducto-meter. Potentiometer.	6 days	K.Naresh, S. I	Lab Assistant	MSc, BSc
14	Elect. & Electronics Engg. Lab	4	1. Speed control of DC motor 2. No load test on DC machine 3. Open Circuit and Short Circuit Test on Single	3 days	G.Paramesh,	Electrician, AI	ITI, 5th
15	Communicative English Lab	1	30 Computers	6 days	Salauddin	Lab Attender	nil
16	Engg. Workshop	11	Surface power gauge machine	6 days	Mr.P.Ravinder	Technician	B.A, ITI , TTC,
17	Engg. Graphics lab	1	32 Drawing Boards	6 days	Mrs. RajyaLa:	Lab Assistant	Diploma, nil
18	Physics Lab	3	Electron spin resonance spectrometer	6 days	A.Sitaram	Lab Attender	SSC
19	Elements of Mechanical Engg. Lab	3	Universal Testing Machine	6days	Mohd. Ghous	Lab Attender	SSC
20	CAMS Lab (Computer application, Modelling&	1	Desktops, PRO -II, MAT Lab and ASPEN Plus Process Simulation Software	3 days	Mr Sunil	Lab Assistant	MCA
21	Process Intensification Lab / Centre of Excellence Lab	1	Advanced Flow Reactor, Micro reactor, Rotating Fluidized bed, Rotating Packed bed Distillation & Adsorber	1 day	Mr. Sunil	Attender	10th
22	Central Analytical Laboratory	1	Automatic Absorption Spectrophotometer, Scanning Electron Microscopy, X-ray Diffractometer	6 days	Samayya	Lab Assistant	BSc

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Fluid Mechanics	1. General Rules of Conduct & Safety Rules in Laboratories are displayed. 2. Fire Extinguisher is provided. 3. First aid kit is provided 4. Instructing students to wear physical appliances like apron, glouse
2	Heat Transfer	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Instructing students to wear physical appliances like apron, glouse 4. Avoiding the use of damaged equipment and providing needful equipment and components.
3	Mass Transfer Operations	1. General Rules of Conduct & Safety Rules in Laboratories are displayed. 2. Fire Extinguisher is provided. 3. First aid kit is provided Physical Appliances like apron ,glouse,safety shoes etc are provided. Code of conduct for the laboratory • All students must observe the Dress code while in the laboratory • Foods, drinks and smoking are NOT allowed • All bags must be left at the indicated place • The lab timetable must be strictly followed • Be PUNCTUAL for your laboratory session • Experiment must be completed within the given time • Noise must be kept to a minimum • Workspace must be kept clean and tidy at all time • Handle all apparatus with care • Keep fluids and chemicals away from instruments. • All students are liable for any damage to equipment due to their own negligence • All equipment, apparatus, tools and components must be RETURNED to their original place after use • Students are strictly PROHIBITED from taking out any items from the laboratory • Students are NOT allowed to work alone in the laboratory without the lab supervisor • Report immediately to the lab supervisor if any injury occurred • Report immediately to the lab supervisor if any damages to equipment BEFORE LEAVING LAB: • Place the stools under the lab bench after cleaning them. • Turn off the power to all instruments • Turn off the main power switch to the lab bench • Please check the laboratory notice board regularly for updates.
4	Mechanical Unit Operations	• Maintaining first aid and fire extinguishers in MUO lab • Instructing students to wear Apron and shoes
5	Process Dynamics & Control	• General Rules of Conduct & Safety Rules in Laboratories are displayed. • Fire Extinguisher is provided. • First aid kit is provided • Physical Appliances like apron, glouse, safety shoes etc are provided Code of conduct for the laboratory: • All students must observe the Dress code while in the laboratory • Foods, drinks and smoking are NOT allowed • All bags must be left at the indicated place • The lab timetable must be strictly followed • Be PUNCTUAL for your laboratory session • Experiment must be completed within the given time • Noise must be kept to a minimum • Workspace must be kept clean and tidy at all time • Handle all apparatus with care • Keep fluids and chemicals away from instruments. • All students are liable for any damage to equipment due to their own negligence • All equipment, apparatus, tools and components must be RETURNED to their original place after use • Students are strictly PROHIBITED from taking out any items from the laboratory • Students are NOT allowed to work alone in the laboratory without the lab supervisor • Report immediately to the lab supervisor if any injury occurred • Report immediately to the lab supervisor if any damages to equipment. Before leaving lab: • Place the stools under the lab bench after cleaning them. • Turn off the power to all instruments • Turn off the main power switch to the lab bench • Please check the laboratory notice board regularly for updates.
6	Process Modeling & Simulation, CAMS Lab	• Fire extinguishers provided in case of any emergency • Two exits provision available- with proper ventilation.
7	Chemical Reaction Engineering	• Maintaining first aid and fire extinguishers in CRE lab • Ensure all students and researchers have access to and use appropriate PPE, such as gloves, safety glasses, lab coats and shoes. • Implement strict procedures for handling chemicals, including proper storage, labeling, and disposal.
8	Process Equipment design and drawing	• Maintaining first aid and fire extinguishers in PEDD lab
9	General Chemical Technology	• Maintaining first aid and fire extinguishers in GCT lab • Ensure all students and researchers have access to and use appropriate PPE, such as gloves, safety glasses, lab coats and shoes. • Implement strict procedures for handling chemicals, including proper storage, labeling, and disposal

10	Polymer Engineering and Technology	• Fire Extinguisher is provided. • Strict instructions for students to wear Apron, safety glasses, Goggles and shoes
11	Technology of Pharmaceuticals & Fine Chemicals	• General Rules of Conduct & Safety Rules in Laboratories are displayed. • Fire Extinguisher is provided. • First aid kit is provided • Physical Appliances like apron, goggles, safety shoes etc are provided.
12	Technology of Refractories & Furnaces	• Maintaining first aid and fire extinguishers • Ensure all students and researchers have access to and use appropriate PPE, such as gloves, safety glasses, lab coats and shoes. • Implement strict procedures for handling chemicals, including proper storage, labeling, and disposal.
13	Chemistry Lab	• Fire extinguisher is placed at suitable position. • First Aid kit is available in the lab.
14	Electrical and Electronics engineering	• Fire extinguisher is posted at suitable position, • First Aid kit is available in the lab
15	Physics, Communicative English, Computer Programming, Engg. Workshop, Engg. Graphics lab, Elements of Mechanical Engineering lab	• Fire extinguisher is posted at suitable position, • First Aid kit is available in the lab

D3. Project Laboratory/Research Laboratory

- The department has established dedicated laboratories and innovation spaces to foster student and faculty engagement in research, projects, and entrepreneurial activities beyond the regular curriculum. These specialized facilities support final-year projects, research work, prototype development, and innovation-driven activities.
 - A **Project Laboratory** is functional with flexible infrastructure and extended working hours to support UG and PG students in executing their major and minor projects. This lab is equipped with multipurpose instruments, analytical tools, fabrication resources, and computer systems with advanced simulation software to facilitate interdisciplinary experimentation and model development. Students are encouraged to work on socially relevant, sustainable, and industry-oriented problems under faculty mentorship.
 - The department has also developed a **Research Laboratory**, which provides a platform for undertaking faculty-guided research work, including sponsored R&D projects and publications. It houses advanced equipment specific to the domain, such as e.g., GC, FTIR, Advanced flow Reactors, Advanced Controllers. The lab supports experimentation, data analysis, thesis work, and paper writing.
 - To promote innovation and entrepreneurship, a **Centre of Excellence (CoE)** has been initiated. It organizes workshops, hackathons, skill-building programs, and student-industry collaborative projects. Students are encouraged to convert their ideas into prototypes and explore funding opportunities from government innovation schemes like DST, AICTE-SPICES, and IIC.
 - The department actively promotes a culture of research and innovation through faculty mentoring, access to online journals, project funding, and exposure to national conferences, competitions, and incubation programs. These facilities have significantly contributed to student achievements, including paper presentations, patents, awards, and startup initiations.
- 1. Computer programming lab:**
 - § MATLAB is tool supporting the projects and research for analysis work
 - 2. Chemical Reaction Engineering Lab:**
 - Purification of Pharmaceutical Drugs using Crystallization process
 - Treatment of wastewater using UV-Photo reactor, Advanced Oxidation Process
 - Electricity production from wastewater using Microbial Fuel cells process.
 - 3. Process Dynamics and Control Lab:**
 - It is very widely used for B.Tech, M.Tech and Ph.D Projects ,
 - 4. Mass Transfer Operations Lab:**
 - It is very widely used for B.Tech, M.Tech and Ph.D Projects
 - 5. Process Modeling & Simulation Lab and CAMS Lab (Computer application, Modeling & Simulation Lab)**
 - It has software such as ASPEN Plus & MATLAB which are utilized by students for their research works.
 - Students also complete project dissertation works using this facility.
 - 6. Process Intensification Lab:**
 - Supporting projects and research in process intensification lab which is sanctioned under centre of excellence.

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= $((NS1*0.8) + (NS2*0.2))/RF$
2022-23(CAYm2)	180	9	9	4	89
2023-24(CAYm1)	180	9	10	4	98
2024-25(CAY)	180	9	11	4	107

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	4000000	3067170	3240000	30532400	3240000	2274552	2325000	3704697
Library	500000	472329	250000	345259	250000	286887	347000	279949
Laboratory equipment	1000000	896220	1000000	630847	600000	1047170	1220000	772901
Teaching and non-teaching staff salary	12000000	12004871	93608618	93608618	96907135	96907135	100152696	100152696
Outreach Programs	3000000	2667581	1000000	170787	750000	732843	600000	483245
R&D	1150000	1126690	900000	697945	700000	56814	700000	36000
Training, Placement and Industry linkage	150000	149734	500000	476319	700000	904731	94000	13120
SDGs	300000	273629	450000	435702	500000	444959	271400	121080
Entrepreneurship	100000	78559	150000	132500	790000	432460	100000	119700
Others, specify	4000000	3921241	685000	447988	2927600	2103593	982780	399551
Total	26200000	24658024	101783618	127478365	107364735	105191144	106792876	106082939

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	410000	367450	500000	461739	600000	880904	683200	432824
Software	150000	143325	43000	111535	600000	393019	106400	66634
SDGs	123000	112187	193500	187352	300000	296639	151984	67804
Support for faculty development	150000	130347	200000	142384	500000	56814	196000	10080
R & D	471500	461942	387000	300116	250000	37876	196000	10080
Industrial Training, Industry expert,	61500	61390	215000	204817	500000	604731	52640	7347

Miscellaneous Expenses*	1640000	1607708	294550	192635	2000000	1403593	550356	223748
Total	3006000	2884349	1833050	1600578	4750000	3673576	1936580	818517