

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechanical Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 2
Application No: 11477	Date of Submission: 20-01-2026

PART A- Profile of the Institute

A1.Name of the Institute: L. D. College of Engineering, Ahmedabad	
Year of Establishment : 1948	Location of the Institute: Ahmedabad
A2. Institute Address: L D College of Engineering No.120, Circular Road, University Area, Opp Gujarat University, Navrangpura, Ahmedabad - 380015 GJ IN	
City:A Ahmedabad	State:Gujarat
Pin Code:380015	Website:www.ldce.ac.in
Email:head_chemical@ldce.ac.in	Phone No(with STD Code):079-26306752
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Gujarat Technological University	City: Ahmedabad
State : Gujarat	Pin Code: 382424
A4. Type of the Institution: Government Institute	
A5. Ownership Status: State Government	

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

- No. of UG programs: **16**
- No. of PG programs: **19**
- No. of UG programs: **03** (working professional)

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	Applied Instrumentation	2003	--	Instrumentation and Control Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2022	--	Artificial Intelligence and Machine Learning
3	Engineering & Technology	UG	Automobile Engineering	2004	--	Automobile Engineering
4	Engineering & Technology	UG	Biomedical Engineering	2004	--	Biomedical Engineering
5	Engineering & Technology	UG	Chemical Engineering	1974	--	Chemical Engineering
6	Engineering & Technology	UG	Civil Engineering	1948	--	Civil Engineering
7	Engineering & Technology	PG	Civil Engineering (Structural Engineering)	1986	--	Applied Mechanics
8	Engineering & Technology	PG	Civil Engineering (Transportation Engineering)	2001	--	Civil Engineering
9	Engineering & Technology	PG	Civil Engineering (Water Management)	1986	--	Civil Engineering
10	Engineering & Technology	PG	Computer Aided Design & Manufacturing	1996	--	Mechanical Engineering
11	Engineering & Technology	PG	Computer Aided Process Design	2002	--	Chemical Engineering
12	Engineering & Technology	UG	Computer Engineering	1983	--	Computer Engineering
13	Engineering & Technology	PG	Computer Engineering	2009	--	Computer Engineering
14	Engineering & Technology	PG	Cryogenic Engineering	1990	--	Mechanical Engineering

15	Engineering & Technology	PG	Electric Vehicle Technology	2023	--	Electrical Engineering
16	Engineering & Technology	PG	Electrical Engineering	1954	--	Electrical Engineering
17	Engineering & Technology	UG	Electrical Engineering	1948	--	Electrical Engineering
18	Engineering & Technology	UG	Electronics & Communication Engineering	1972	--	Electronics and Communication Engineering
19	Engineering & Technology	PG	Electronics & Communication Engineering (Communication Systems)	2001	--	Electronics and Communication Engineering
20	Engineering & Technology	UG	Environmental Engineering	1983	--	Environmental Engineering
21	Engineering & Technology	PG	Environmental Management	2001	--	Environmental Engineering
22	Engineering & Technology	PG	Geotechnical Engineering	2011	--	Applied Mechanics
23	Engineering & Technology	PG	Information Technology	2010	--	Information Technology
24	Engineering & Technology	UG	Information Technology	2000	--	Information Technology
25	Engineering & Technology	UG	Instrumentation and Control Engineering	1974	--	Instrumentation and Control Engineering
26	Engineering & Technology	PG	Masters in Computer Applications	1987	--	Information Technology
27	Engineering & Technology	PG	Mechanical Engineering	2003	--	Mechanical Engineering
28	Engineering & Technology	UG	Mechanical Engineering	1948	--	Mechanical Engineering
29	Engineering & Technology	UG	Plastics Technology	1983	--	Plastic Technology
30	Engineering & Technology	UG	Robotics and Automation	2022	--	Robotics and Automation
31	Engineering & Technology	UG	Rubber Technology	1983	--	Rubber Technology
32	Engineering & Technology	PG	Rubber Technology	2011	--	Rubber Technology
33	Engineering & Technology	PG	Textile Engineering	2010	--	Textile Technology
34	Engineering & Technology	UG	Textile Technology	1977	--	Textile Technology
35	Engineering & Technology	PG	VLSI Design	2023	--	Electronics and Communication Engineering
36	Engineering & Technology	UG (Working Professional)	Civil Engineering	2024	--	Civil Engineering
37	Engineering & Technology	UG (Working Professional)	Electrical Engineering	2024	--	Electrical Engineering
38	Engineering & Technology	UG (Working Professional)	Mechanical Engineering	2024	--	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
Electronics and Communication Engineering	Yes	Electronics & Communication Engineering	UG
Mechanical Engineering	Yes	Mechanical Engineering	UG
Rubber Technology	No	Rubber Technology	UG
Environmental Engineering	Yes	Environmental Engineering	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
Automobile Engineering	Automobile Engineering	UG
Robotics and Automation	Robotics and Automation	UG

PART-B: Program information

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

Table No. B1: Program details.

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	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	1948 / --	120	Yes	NA	120	NA	F.No.:Central/1-44642961216/2025/EOA, 03-Jan.-2025	Granted accreditation for 3 years for the period (specify period)	2022	2025	3	4

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/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION														
1	Automobile Engineering	Automobile Engineering	UG	2004 / --	120	Yes	2022	120	2022	F.No.:Central/1-44642961216/2025/EOA, 03-Jan.-2025	Not eligible for accreditation	--	--	0	4														
Sanctioned Intake for Last Five Years for the Automobile Engineering <table><tr><th>Academic Year</th><th>Sanctioned Intake</th></tr><tr><td>2025-26</td><td>120</td></tr><tr><td>2024-25</td><td>120</td></tr><tr><td>2023-24</td><td>120</td></tr><tr><td>2022-23</td><td>120</td></tr><tr><td>2021-22</td><td>60</td></tr><tr><td>2020-21</td><td>60</td></tr></table>																Academic Year	Sanctioned Intake	2025-26	120	2024-25	120	2023-24	120	2022-23	120	2021-22	60	2020-21	60
Academic Year	Sanctioned Intake																												
2025-26	120																												
2024-25	120																												
2023-24	120																												
2022-23	120																												
2021-22	60																												
2020-21	60																												
2	Robotics and Automation	Robotics and Automation	UG	2022 / --	60	No	NA	60	2022	F.No.:Central/1-44642961216/2025/EOA, 03-Jan.-2025	Not eligible for accreditation	--	--	0	4														

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

A. Name of the HoD :	Dr. V B Patel
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)	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)	120	120	120	120	120	120	120
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	120	120	120	120	120	120	120
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	23	20	30	30	25	25
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	27	36	40	22	24	24	31
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	147	179	180	172	174	169	176

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)	120	120	27	122.50
2024-25 (CAYm1)	120	120	36	130.00
2023-24 (CAYm2)	120	120	40	133.33

Average [(ER1 + ER2 + ER3) / 3] = 128.61≅ 100

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).	174.00	169.00	176.00
B=No. of students who graduated from the program in the stipulated course duration	155.00	160.00	164.00
Success Rate (SR)= (B/A) * 100	89.08	94.67	93.18

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 92.31

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)	6.75	6.24	6.22
Y=Total no. of successful students	148.00	145.00	140.00
Z=Total no. of students appeared in the examination	153.00	145.00	140.00
API [X*(Y/Z)]	6.53	6.24	6.22

Average API[(AP1+AP2+AP3)/3] : 6.33

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 2rd year/10)	6.53	6.80	7.16
Y=Total no. of successful students	158.00	162.00	160.00
Z=Total no. of students appeared in the examination	165.00	170.00	166.00
API [X * (Y/Z)]	6.25	6.48	6.90

Average API [(AP1 + AP2 + AP3)/3] : 6.54

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)	7.41	7.39	7.60
Y=Total no. of successful students	152.00	156.00	162.00
Z=Total no. of students appeared in the examination	162.00	160.00	165.00

API [X*(Y/Z)]:	6.95	7.21	7.46
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Average API [(AP1 + AP2 + AP3)/3] : 7.21

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	156.00	162.00	164.00
X=No. of students placed	142.00	122.00	123.00
Y=No. of students admitted to higher studies	3.00	15.00	14.00
Z= No. of students taking up entrepreneurship	0.00	4.00	2.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	92.95	87.04	84.76

Average Placement Index = (P_1 + P_2 + P_3)/3: 88.25 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)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. V B Patel	XXXXXXXX43P	Ph.D	Ganpat University	Manufacturing	09/05/2022	3.8	Professor	Professor	09/05/2022	Regular	Yes		Yes
2	Dr. R G Kapadia	XXXXXXXX11E	Ph.D	IIT, Delhi	Thermal Engineering (RAC)	15/12/2018	7	Professor	Professor	15/12/2018	Regular	Yes		No
3	Dr. K G Dave	XXXXXXXX31B	Ph.D	IIT, Roorkee	Manufacturing	03/11/2010	15.2	Associate Professor	Professor	01/01/2021	Regular	Yes		No
4	Dr. N V Bora	XXXXXXXX75F	Ph.D	GTU	Thermal Engineering	20/10/2022	3.2	Associate Professor	Associate Professor	20/10/2022	Regular	Yes		No
5	Dr. P R Rathod	XXXXXXXX34N	Ph.D	IIT, Delhi	Manufacturing	28/05/2015	10.1	Associate Professor	Associate Professor	28/05/2015	Regular	No	30/06/2025	No
6	Dr. A N Prajapati	XXXXXXXX19H	Ph.D	IIT, Roorkee	Thermal Engineering	24/04/2025	0.8	Associate Professor	Associate Professor	24/04/2025	Regular	Yes		No
7	M M Makwana	XXXXXXXX74F	M.E.	Gujarat University	CAD/CAM	28/05/2015	9.10	Associate Professor	Associate Professor	28/05/2015	Regular	No	23/04/2025	No
8	R O Paliwal	XXXXXXXX95H	M.E.	Gujarat University	Cryogenic Engineering	28/05/2015	9.10	Associate Professor	Associate Professor	28/05/2015	Regular	No	23/04/2025	No
9	Dr. R J Jani	XXXXXXXX89K	Ph.D	GTU	Automobile Engineering	21/09/2012	13.3	Associate Professor	Associate Professor	21/09/2012	Regular	No	23/04/2025	No
10	Dr. S S Pathan	XXXXXXXX48P	Ph.D	IIT, Bombay	Mechanical Engineering (Vibro-Acoustics)	12/07/2017	8.5	Associate Professor	Associate Professor	12/07/2017	Regular	Yes		No
11	S A Saraswat	XXXXXXXX06J	M.E.	Gujarat University	Cryogenic Engineering	19/01/2016	9.3	Associate Professor	Associate Professor	19/01/2016	Regular	No	23/04/2025	No
12	Dr. A V Patel	XXXXXXXX40B	Ph.D	IIT, Delhi	CAD/CAM	14/07/2017	8.5	Associate Professor	Associate Professor	14/07/2017	Regular	Yes		No

13	M Y Patil	XXXXXX84D	M.E.	Gujarat University	CAD/CAM	20/10/2022	3.2	Associate Professor	Associate Professor	20/10/2022	Regular	Yes		No
14	Dr. A K Patel	XXXXXX53R	Ph.D	RGPV, Bhopal	Mechanical Engineering	06/05/2025	0.8	Associate Professor	Associate Professor	06/05/2025	Regular	Yes		No
15	Dr. S J Doshi	XXXXXX05J	Ph.D	GTU	Production Engineering	25/04/2025	0.8	Associate Professor	Associate Professor	25/04/2025	Regular	Yes		No
16	Dr. K S Vaghosi	XXXXXX10L	Ph.D	GTU	Production Engineering	25/04/2025	0.8	Associate Professor	Associate Professor	25/04/2025	Regular	Yes		No
17	Dr. D B Trivedi	XXXXXX30B	Ph.D	IIT, Bombay	Mechanical Engineering	24/04/2025	0.8	Associate Professor	Associate Professor	24/04/2025	Regular	Yes		No
18	Dr. A V Mehta	XXXXXX13E	Ph.D	RK University	Mechanical Engineering	24/04/2025	0.8	Associate Professor	Associate Professor	24/04/2025	Regular	Yes		No
19	H P Patel	XXXXXX41P	M.E.	GTU	IC Auto	01/07/2015	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
20	P C Sheth	XXXXXX74R	M.E.	MSU, Baroda	Gas Turbine & Jet Propulsion	20/12/2013	12	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Dr. S R Pandya	XXXXXX54A	Ph.D	IIT Gandhinagar	Production Engineering	23/10/2017	7.6	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
22	Dr. B K Patel	XXXXXX67A	Ph.D	SVNIT Surat	Manufacturing	10/12/2013	11.4	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
23	Dr. M K Vyas	XXXXXX01C	Ph.D	SSIU Gandhinagar	Mechanical Engineering	25/05/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
24	P V Jotaniya	XXXXXX14J	M.E.	Gujarat University	IC Auto	19/12/2013	12	Assistant Professor	Assistant Professor		Regular	Yes		No
25	H M Ravat	XXXXXX19P	M.E.	MSU, Baroda	Jet Propulsion	13/11/2020	5.2	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Dr. V D Sonara	XXXXXX28G	Ph.D	GTU	IC Auto	29/07/2016	8.8	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
27	Dr. S P Shah	XXXXXX68F	Ph.D	GTU	Manufacturing	02/05/2011	13.11	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
28	Dr. U A Patel	XXXXXX26C	Ph.D	Ganpat University	Mechanical Engineering	04/06/2011	13.10	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
29	Dr. D U Panchal	XXXXXX93J	Ph.D	GTU	IC Auto	02/05/2011	13.11	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
30	S B Bhatt	XXXXXX50A	M.E.	Mumbai University	Machine Design	07/05/2011	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Dr. D R Shah	XXXXXX15B	Ph.D	GTU	CAD/CAM	20/05/2011	13.11	Assistant Professor	Assistant Professor		Regular	No	23/04/2025	No
32	K K Pansal	XXXXXX98K	M.E.	Gujarat University	Cryogenic Engineering	02/11/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
33	N R Patel	XXXXXX43N	M.E.	MSU, Baroda	Thermal Engineering	06/12/2018	7.1	Assistant Professor	Assistant Professor		Regular	Yes		No
34	Dr. G N Sutar	XXXXXX97R	Ph.D	Silver Oak University	IC Auto	01/07/2015	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
35	Dr. V. G. Trivedi	XXXXXX67G	Ph.D	Silver Oak University	Automobile Engineering	09/05/2011	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Dr. A G Momin	XXXXXX95Q	Ph.D	GTU	CAD/CAM	01/07/2015	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No

37	Dr. D K Patel	XXXXXXX78P	Ph.D	GTU	Welding Technology	24/05/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
38	S J Patel	XXXXXXX60B	M.Tech	SVNIT Surat	Manufacturing	17/12/2015	10	Assistant Professor	Assistant Professor		Regular	Yes		No
39	D M Chandra	XXXXXXX90E	M.Tech	NIT Surathkal	Manufacturing	13/06/2016	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
40	Dr. A C Pambhar	XXXXXXX81Q	Ph.D	GTU	CAD/CAM	10/06/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
41	Dr. H M Gajera	XXXXXXX94E	Ph.D	C U Shah University	CAD/CAM	10/06/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
42	H R Patel	XXXXXXX97R	M.Tech	SVNIT Surat	Thermal Engineering	14/06/2016	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
43	Dr. K P Hirpara	XXXXXXX33L	Ph.D	GTU	Mechanical Engineering	10/06/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Dr. N H Pancholi	XXXXXXX61Q	Ph.D	GTU	CAD/CAM	22/06/2016	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
45	M D Patel	XXXXXXX93Q	M.E.	Gujarat University	CAD/CAM	14/06/2016	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
46	N K Pranami	XXXXXXX90N	M.Tech	IIT, Bombay	CAD/CAM	21/06/2016	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
47	J P Dataniya	XXXXXXX51K	M.E.	Gujarat University	CAD/CAM	10/06/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
48	Mayur M. Makwana	XXXXXXX11J	M.Tech	SVNIT Surat	Turbo Machine	21/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
49	Dr. M D Chaudhari	XXXXXXX74N	Ph.D	University of North Texas	Metallurgy	25/10/2017	8.2	Assistant Professor	Assistant Professor		Regular	Yes		No
50	K A Patel	XXXXXXX35R	M.E.	GTU	Mechanical Engineering	21/05/2016	9.7	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
51	Dr. S B Shah	XXXXXXX45B	Ph.D	GTU	CAD/CAM	09/10/2012	13.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No

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)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. V R Patel	XXXXXXX04A	XXXXXXXXX885	Ph.D	Nirma University	Automobile Engineering	19/12/2015	10	Assistant Professor	Associate Professor	23/04/2025	Regular	Yes		Yes
2	Dr. P D Patel	XXXXXXX38Q	NA	Ph.D	Nirma University	Automobile Engineering	02/05/2011	14.8	Assistant Professor	Associate Professor	23/04/2025	Regular	Yes		No
3	Dr. M A Shaikh	XXXXXXX26R	XXXXXXXXX488	Ph.D	GTU	Automobile Engineering	02/05/2011	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
4	R J Choube	XXXXXXX96K	XXXXXXXXX439	M.E.	GTU	Automobile Engineering	13/04/2011	14.9	Assistant Professor	Assistant Professor		Regular	Yes		No
5	S N Patel	XXXXXXX05D	XXXXXXXXX550	M.E.	GTU	Automobile Engineering	16/01/2016	9.11	Assistant Professor	Assistant Professor		Regular	Yes		No
6	K V Vaghela	XXXXXXX86H	XXXXXXXXX456	M.E.	GTU	Automobile Engineering	01/11/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No

7	K D Chaudhari	XXXXXX69K	NA	M.E.	GTU	Automobile Engineering	02/11/2022	2.1	Assistant Professor	Assistant Professor		Regular	No	17/12/2024	No
8	J P Vasani	XXXXXX70H	NA	M.E.	GTU	Machine Design	11/03/2017	8.10	Assistant Professor	Assistant Professor		Regular	Yes		No
9	B H Kadiya	XXXXXX90B	XXXXXXXX287	M.E.	GTU	Automobile Engineering	21/05/2016	9.7	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
10	A. G. Kunte	XXXXXX49B	XXXXXXXX951	M.E.	MSU, Baroda	Production Engineering	01/05/2025	0.8	Associate Professor	Associate Professor	01/05/2025	Regular	Yes		No
11	Dr. H S Trivedi	XXXXXX13A	XXXXXXXX019	Ph.D	Bhavnagar University	Production Engineering	08/05/2025	0.8	Associate Professor	Associate Professor	08/05/2025	Regular	Yes		No

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 Department3 No. of PG Programs in the Department3

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	132	132	132
UG1.C	132	132	132
UG1.D	132	132	132
UG1: Mechanical Engineering	396	396	396
UG2.B	66	66	66
UG2.C	66	66	0
UG2.D	66	0	0
UG2: Robotics and Automation	198	132	66
UG3.B	132	132	132
UG3.C	132	132	66
UG3.D	132	66	66
UG3: Automobile Engineering	396	330	264
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Computer Aided Design & Manufacturing	36	36	36
PG2.A	15	15	15
PG2.B	15	15	15
PG2: Cryogenic Engineering	30	30	30

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG3.A	18	18	18
PG3.B	18	18	18
PG3: Mechanical Engineering	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	498	498	498
AS=Total no. of students of all UG and PG programs in allied departments	594	462	330
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 1092	S2= 960	S3= 828
DF=Total no. of faculty members in the Department	39	34	45
AF= Total no. of faculty members in the allied Departments	10	8	9
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 49	F2= 42	F3= 54
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= 22.29	SFR2= 22.86	SFR3= 15.33
Average SFR for 3 years	SFR= 20.16		

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	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	25	24	52.00	16.63
2024-25(CAYm1)	17	25	46.00	14.67
2023-24(CAYm2)	20	34	39.00	21.54

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:}$.
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$.
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$.
- 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
2025-26	5.00	3.00	11.00	12.00	35.00	31.00
2024-25	5.00	3.00	10.00	4.00	30.00	32.00
2023-24	4.00	3.00	8.00	5.00	26.00	43.00
Average	RF1=4.67	AF1=3.00	RF2=9.67	AF2=7.00	RF2=30.33	AF2=35.33

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	Nil	na	na	na	0.00

(CAYm2)

(CAYm3)

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	13	15	14
2	No. of peer reviewed conference papers published	0	1	1
3	No. of books/book chapters published	0	0	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(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
Dr. Janak Valaki	Prof K P Hirpara	GEC Bhavnagar	Development, Analysis, and Optimization of Multilayered Plasma Transferred hard facing PRocess using advanced materials	GUJCOST	2 Year	6.44
						Amount received (Rs.):6.44

Total Amount (Lacs) Received for the Past 3 Years: 6.44

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
S S PATHAN	M Y PATIL	MECHANICAL ENGINEERING , LDCE	Design verification of 5T/20T Gantry Crane for Wagon lifting system for Southern Railway Chennai	M/s. Hardware Tools & Machinery Projects Pvt. Ltd. Ahmedabad	2 Months	1.00
V B PATEL	S S PATHAN, R J Jani	MECHANICAL ENGINEERING , LDCE	Technical Inspection of Automatic Vehicle Washing Machine (Major Components)	GUJARAT STATE ROAD TRANSPORT CORPORATION	2 Months	0.24
S S PATHAN	M Y PATIL	MECHANICAL ENGINEERING , LDCE	Testing of EV tricycle for physically challenged persons	ONECEPTUAL TECHNOLOGY	15 Days	0.25
N V BORA	K K PANSAL	MECHANICAL ENGINEERING , LDCE	CONSULTANCY - HVAC BOQ and estimation for Aviation and Defence Gallery	Gujarat Council of Science City, Ahmedabad	6 Months	1.39
						Amount received (Rs.):2.88

(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
N V BORA	K K PANSAL	MECHANICAL ENGINEERING , LDCE	Expert opinion regarding the functioning, utilization and end use of Emerson Copeland Scroll Compressors of Model ZR and ZP series	COMPRESSOR POINT	4 Months	0.15
						Amount received (Rs.):0.15

(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
S S PATHAN	B K PATEL	MECHANICAL ENGINEERING , LDCE	Calibration of Testing Tank	SHANTI PASTICS INDUSTRIES	1 Week	0.15
Prof. R. J. Jani		Mechanical Engineering	Worked as technical expert in the high powered standing committee formed by the Government of Gujarat for GSRTC Purchases	GSRTC, Ahmedabad	3 Years	0.00
P.C.sheth		Mechanical Engineering	Testing Of Pumps	Gujarat Water Supply And Severage Board	3 Years	0.00
						Amount received (Rs.):0.15

Total amount (Lacs) received for the past 3 years: 3.18

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)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
			Amount received (Rs.): 0		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
			Amount received (Rs.): 0		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Prof. V. B. Patel	Investigation of hardenability of low and high alloy steel	3 years	2.00	0.00	Nil
Prof S R Pandya	Fabrication and testing of integral aluminium based compact heat exchanger	3 years	2.00	0.00	Paper Publication
			Amount received (Rs.): 4.00		

Total amount (Lacs) received for the past 3 years : 4.00

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.

S.N	Name of Laboratory	Number of students per setup (Batch size)	Name of the important equipment in each laboratory	Weekly utilization status (in hrs.)	Technical Manpower support		
					Name of Technical staff	Designation	Qualification
1	Mechanical workshop	25	Fitting Shop 1. Bench vice 2. All the required tools Carpentry Shop 1. Carpentry vice 2. All the required tools Tin smithy Shop 1. Tin smithy Stacks 2. All the required tools	Odd Term: - 24 hrs. Even Term: - 22 hrs.	Shri. D M Chavda Shri. M D Patel	Instructor Fitter	Diploma (Mech.) ITI
2	Engineering Graphics and Design	25	Models of solid geometry e.g. Prism, Pyramid, Truncated Pyramid, Cone, 3D model of machine component to understand Orthographic projection	Odd Term: - 22 hrs. Even Term: - 24 hrs.	NIL	NA	NA
3	Basic Mechanical Engineering	25	Demonstration models of: 1. Cochran Boiler 2. Lancashire Boiler 3. Babcock & Wilcox Boiler 4. B&M Vertical steam Engine 5. Horizontal Compounding Steam Engine 6. B&M steam Turbine 7. Model of Horizontal Fire-tube boiler 8. Model of Water tube boiler 9. Radial Engine 10. Cut section of petrol engine	Odd Term: - 24 hrs. Even Term: - 22 hrs.	NIL	NA	NA
4	Material Science and Metallurgy	22	1. Jominy Quench Set up with Muffle furnace 2. "Ultrasonic Flaw Detector (vibronic make portable mains operated)" 3. Metallurgical Microscope SMM-1 4. Two Disc Polishing Machine 5. Image Analyzer	16	NIL	NA	NA

			6. Micro Hardness Tester 8. "Inverted Tri-nodular Metallurgical Microscope				
5	Mechanical Measurement & Metrology	22	1. Vernier Caliper (0-300 mm) 2. Sine Bar (125 mm & 150 mm) 3. Water spirit level 4. Bench type outside micrometer 5. Slip Gauge set of 105 pieces 6. Tooth Thickness Vernier caliper 7. Anvil For Micrometer 8. Screw Thread Micrometer 9. Vernier Height Gauge 10. Vernier Depth Gauge 11. Micrometer (Outside) (0-25 mm) 12. Portable surface roughness Tester 13. universal bevel protector	16	NIL	NA	NA
6	Fluid Mechanics & Hydraulic machines	22	1. Losses In Pipe Fitting Apparatus 2. Metacentric Height of Ship Model 3. Orifice and venturimeter setup 4. Notch apparatus 5. Bernoulli's theorem apparatus 6. Pipe friction apparatus 7. Models Of Turbine Runners and Pump Impellers	16	NIL	NA	NA
7	Manufacturing Processes / Manufacturing Technology	22	1. Radial Drilling Machine 2. Lathe Machine -9 Nos. 3. Shearing Machine -1 No. 4. Shaper Machine 5. Hydraulic hacksaw Machine 6. Bench Grinder 200mm 7. Pillar Type Drilling Machine 8. Tool and Cutter Grinder 9. Universal Milling Machine 10. Surface Grinder 11. Gear Hobbing Machine 12. Heavy Duty Lathe 13. Lapping Machine 14. Precision Lathe 15. Hydraulic Press Tool 16. Pedestal Grinding Machine 17. Tiger lathe	Odd Term: - 21 hrs. Even Term: - 16 hrs.	NIL	NA	NA

8	Kinematics of Machines/Dynamics of Machinery	22	1. Universal Vibration Test Rig 2. Motorized Gyroscope Apparatus 3. Universal Governor Apparatus 4. Whirling Of Shaft Apparatus 5. Cam Analysis Apparatus 6. Types Of Bearings 7. Types Of Gears 8. Types Of Keys 9. Types Of Fasteners-I 10. Types Of Fasteners-II	16	NIL	NA	NA
9	Automobile Engineering Lab	17	1. Diesel Generating Set 2. Computerized Single Cylinder Diesel Engine Test Rig 3. Computerized 4 Cylinder 4 Stroke Diesel Engine Test Rig 4. Four Stroke 4 Cylinder Petrol Engine Test Rig 5. Diesel Pump Test Bench 6. Cut Section Model of Multi Cylinder 4-Stroke Petrol Engine 7. Cut Section Model of Multi Cylinder 4-Stroke Diesel Engine 8. Capton Diesel Engine 9. Single Cylinder Diesel Engine Test Rig 10. Horizontal Diesel Engine 11. MPFI System Display Board 12. Radial Engine 13. Five Gas Analyzer	12	NIL	NA	NA
10	Heat and Mass Transfer	15	1. Critical Radius of Insulation Material Apparatus 2. Thermal Conductivity of Metal Rod Apparatus 3. Drop And Film Condensation Apparatus 4. Thermal Conductivity of Insulating Powder Apparatus 5. Stefan Boltzmann's Apparatus 6. Natural Convection Apparatus 7. Regenerative Heat Exchanger 8. Shell And Tube Heat Exchanger Apparatus 9. Parallel And Counter Flow Heat Exchanger Apparatus 10. Thermal Conductivity of Composite Wall Apparatus	20	NIL	NA	NA
11	Computer Aided Design	17	1. NX software modules for modeling and simulation. 2. ANSYS for the structural, thermal and fluid flow analysis of the problems. 3. AUTO CAD INVENTOR (Students Version for Academic purpose)	2	NIL	NA	NA
12	Refrigeration and Air conditioning	17	1. Air-conditioning Test Rig 2. Air-water heat pump	14	NIL	NA	NA

			3. Air Washer Walk-in cooler 4. Cooling tower 5. Cascade Refrigeration unit 6. Backward curved Fan 7. Forward curved Fan 8. Air Handling unit 9. Steam Jet Refrigeration unit 10. Clean Room 11. Deep Freezer 12. Bottle Cooler 13. Ice Making Plant				
13	Fundamentals of Machine Design	22	1. Computational facility. 2. CAD Software fusion 360 and Autodesk (open source)	16	NIL	NA	NA

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Mechanical Workshop	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory, - Avoiding the use of cell phones. - Keep hands away from rotating parts (lathe, drilling, milling). - Hand gloves, Safety shoes, Welding goggles, should be used in the lab - Loose clothing and jewels etc. are prohibited.
2	Engineering Graphics and Design Lab	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Maintain a clean and organized laboratory, - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. - Maintain proper posture. - Handle sharp instruments carefully. - Keep workspace clutter-free.
3	Basic Mechanical Engineering	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited.
4	Material Science and Metallurgy	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory, - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. -Use gloves for specimen handling. -Use tongs for hot materials. -Avoid direct exposure to chemicals and etchants. -Maintain furnace safety and fire precautions. - Do not start the equipment in absence of the instructor.
5	Mechanical Measurement & Metrology	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Maintain a clean and organized laboratory, - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. - Handle precision instruments carefully. - Avoid dropping or forcing instruments. - Do not start the equipment in absence of the instructor. - Keep measuring surfaces clean.
6	Fluid Mechanics & Hydraulic machines	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory, - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. - Check for leaks before operation. - Avoid high-pressure fluid contact. - Ensure dry electrical surroundings. - Do not start the equipment in absence of the instructor.

7	Manufacturing Processes / Manufacturing Technology	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Keep hands away from rotating parts (lathe, drilling, milling). - Hand gloves, Safety shoes, Welding goggles, should be used in the lab - Loose clothing and jewels etc. are prohibited. - Maintain safe distance from molten metal. - Ensure proper ventilation during welding. - Keep fire extinguishers nearby due to spark/fire risk. - Do not start the equipment in absence of the instructor.
8	Kinematics of Machines/Dynamics of Machinery	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Do not touch moving mechanisms. - Operate within safe speed limits. - Ensure proper alignment before starting. - Loose clothing and jewels etc. are prohibited. - Do not start the equipment in absence of the instructor.
9	Automobile Engineering Lab	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. - Avoid fuel spillage. - Do not touch hot engine parts. - Ensure proper exhaust ventilation. - Fire extinguisher must be accessible. - Do not start the equipment in absence of the instructor.
10	Heat and Mass Transfer	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Avoid direct contact with heated surfaces. - Use thermal gloves where required. - Ensure proper cooling water circulation. - Loose clothing and jewels etc. are prohibited. - Do not start the equipment in absence of the instructor.
11	Computer Aided Design	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. - Do not start the equipment in absence of the instructor. - Maintain ergonomic posture. - Avoid long continuous screen exposure. - Follow electrical safety.
12	Refrigeration and Air conditioning	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Do not start the equipment in absence of the instructor. - Loose clothing and jewels etc. are prohibited. - Avoid inhalation of refrigerants. - Check for leaks before operation. - Ensure proper ventilation.
13	Fundamentals of Machine Design	General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - Use of First aid box, Fire extinguisher & Hand gloves. - Students must wear aprons in the Lab. - Avoiding the use of damaged equipment and providing needful equipment and components. - Maintain a clean and organized laboratory. - Avoiding the use of cell phones. - Loose clothing and jewels etc. are prohibited. - Avoid overloading testing machines. - Ensure proper alignment of specimens.

D3. Project Laboratory/Research Laboratory

Table D3.1: Specialized Facilities / Industry Supported Laboratories

Sr. No.	Name of Laboratory / COE	Industry Partner	Major Facilities / Equipment	Utilization	Example Student Projects / Activities	Outcomes
1	Centre of Excellence (Siemens) Product Design and Validation Laboratory Advanced Mfg. Lab. CIM Lab. MCMT Lab. RPT Lab.	Siemens Co.	Product design lab, automation lab, mechatronics lab, CNC programming lab, rapid prototyping and digital manufacturing facilities	CAD/CAM training, automation experiments, workshops and student projects	CNC machining simulation, product design using CAD tools and automation based mini projects	Students gain practical exposure to design, digital manufacturing and automation technologies. Thus enhance their skills through hands-on practices.

2	Centre of Excellence – Welding	Industry Collaboration (Keepsake Co.)	MIG welding machines, TIG welding machines and arc welding equipment	Welding experiments, skill training and project work	Study of welding parameters and fabrication related student projects	Practical skills in welding technology and manufacturing processes is enhanced to a greater extent.
3	HVAC Centre of Excellence	Blue Star Limited	Refrigeration and air-conditioning systems, VRF units and HVAC training setup	Practical experiments and training related to refrigeration and air-conditioning systems	Performance testing of air-conditioning systems and energy analysis of HVAC units	Improves understanding of refrigeration and air-conditioning technologies
4	Hydraulics & Pneumatics Laboratory (OHP– Festo)	Festo / Mamata Machinery Ltd.	Pneumatic and hydraulic training kits, electro-pneumatic systems, PLC kits and simulation software	Experiments related to fluid power systems and industrial automation	Design of electro-pneumatic control circuits and automation based mini projects	Students gain knowledge of industrial automation and fluid power systems

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)	1350	68	23	123	63.24
2024-25(CAYm1)	1350	68	20	126	60.59
2025-26(CAY)	1350	68	22	108	57.65

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

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

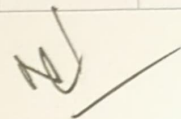
Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	1418.08	1418.08	2085.54	2085.54	2317.42	2317.42	1509	1509
Library	14.82	1.61	92.42	80.01	2.86	2.09	6.61	0.16
Laboratory equipment	927.97	367.66	1634.21	153.18	808.46	99.88	263.43	37.97
Teaching and non-teaching staff salary	8358	7914	6699	6697	6716	6710	5643.24	5641.23
Outreach Programs	11.41	11.41	8.3	8.28	7.93	7.78	8.29	7.90
R&D	88.87	88.87	77.47	77.47	74.58	74.58	78.22	78.22
Training, Placement and Industry linkage	3.35	3.35	6.00	6.00	3.00	3.00	2.24	2.24
SDGs	23.32	23.32	15.11	15.11	8.44	8.44	5.66	5.66
Entrepreneurship	3.09	3.09	0.97	0.97	7.07	7.07	2.09	2.09
Others, specify	1282.24	1124.24	1368.23	1301.23	937.53	932.53	784.04	756.93
Total	12131.16	10955.64	11987.25	10424.79	10883.29	10162.79	8302.81	8041.39

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	40	16.88	45	10.85	6.32	1.19	5.95	2.55
Software	8.72	8.72	0	0	0	0	0	0
SDGs	2.11	2.11	1.5058	1.5058	0.92	0.92	0.55	0.55

Support for faculty development	1021.90	1021.90	1162.74	1162.74	1048.05	1048.05	898.46	898.46
R & D	0	0	6.59	6.59	0.29	0.29	0.15	0.15
Industrial Training, Industry expert, Internship	0.28	0.28	0.31	0.31	0.18	0.18	0.07	0.07
Misc. Expences	116.14	108.79	136.35	129.67	101.74	101.20	77.32	74.65
Total	1189.16	1158.68	1352.49	1311.67	1157.50	1151.83	982.51	976.44



Dr. N N Bhuptani
Principal