

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: 12088	Date of Submission: 10-08-2026

PART A- Profile of the Institute

A1.Name of the Institute: Vyavasayi Vidya Pratishthan Engineering College(V.V.P. Engg College)	
Year of Establishment : 1995	Location of the Institute: 7P865Q Rajkot Gujarat
A2. Institute Address:Vajdi Virda, Kalawad Road, Rajkot - 360005	
City:Rajkot	State:Gujarat
Pin Code:360005	Website:www.vvpedulink.ac.in
Email:info@vvpedulink.ac.in	Phone No(with STD Code):9173-215401
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Gujarat Technological University Ahmedabad	City: Ahmedabad
State : Gujarat	Pin Code: 382424
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: 8
- No. of PG programs: 0

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Biotechnology	2004	--	Biotechnology
2	Engineering & Technology	UG	Chemical Engineering	1996	--	Chemical Engineering
3	Engineering & Technology	Diploma	Chemical Engineering	2025	--	Chemical Engineering
4	Engineering & Technology	Diploma	Civil Engineering	2025	--	Civil Engineering
5	Engineering & Technology	UG	Civil Engineering	2011	--	Civil Engineering
6	Engineering & Technology	Diploma	Computer Engineering	2025	--	Computer Engineering
7	Engineering & Technology	UG	Computer Engineering	2001	--	Computer Engineering
8	Engineering & Technology	UG	Electrical Engineering	1996	--	Electrical Engineering
9	Engineering & Technology	Diploma	Electrical Engineering	2025	--	Electrical Engineering
10	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
11	Engineering & Technology	Diploma	Information Technology	2025	--	Information Technology
12	Engineering & Technology	UG	Information Technology	1999	--	Information Technology
13	Engineering & Technology	UG	Mechanical Engineering	1996	--	Mechanical Engineering
14	Engineering & Technology	Diploma	Mechanical Engineering	2025	--	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
Mechanical Engineering	No	Mechanical 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)

No Record

PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/ DECREASE INTAKE (if any)	YEAR OF INCREASE/ DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	1996 / --	60	Yes	2024	60	2024	F.No. Central/1-43658591532/2024/EOA	Applying first time	--	--	0	4

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	Sanctioned Intake
2025-26	60
2024-25	60
2023-24	120
2022-23	120
2021-22	120
2020-21	120

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. Rupesh V. Ramani
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)	60	60	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	57	66	17	20	63	77	96
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	6	15	25	36	30	50
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	4	0	0	0	6	7	7
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	61	72	32	45	105	114	153

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)	60	57	4	101.67
2024-25 (CAYm1)	60	66	0	110.00
2023-24 (CAYm2)	120	17	0	14.17
Average [(ER1 + ER2 + ER3) / 3] = 75.28± 14.00				

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

Table No.B5.1: The success rate in the stipulated period of a program.			
Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	132.00	132.00	153.00
B=No. of students who graduated from the program in the stipulated course duration	82.00	99.00	127.00
Success Rate (SR)= (B/A) * 100	62.12	75.00	83.01
Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 73.38			

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)
X=(Mean of 1st 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 1st year/10)	5.48	4.86	6.85
Y=Total no. of successful students	65.00	17.00	19.00
Z=Total no. of students appeared in the examination	66.00	17.00	20.00
API [X*(Y/Z)]	5.40	4.86	6.51
Average API[(AP1+AP2+AP3)/3] : 5.59			

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)	5.18	5.94	5.72
Y=Total no. of successful students	29.00	43.00	95.00
Z=Total no. of students appeared in the examination	32.00	44.00	103.00
API [X * (Y/Z)]	4.69	5.81	5.28
Average API [(AP1 + AP2 + AP3)/3] : 5.26			

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)	6.87	6.42	6.93
Y=Total no. of successful students	43.00	89.00	100.00
Z=Total no. of students appeared in the examination	43.00	95.00	107.00
API [X*(Y/Z)]:	6.87	6.01	6.48
Average API [(AP1 + AP2 + AP3)/3] : 6.45			

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	132.00	132.00	153.00
X=No. of students placed	32.00	43.00	58.00
Y=No. of students admitted to higher studies	4.00	6.00	3.00
Z= No. of students taking up entrepreneurship	12.00	17.00	9.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	36.36	50.00	45.75
Average Placement Index = (P_1 + P_2 + P_3)/3: 44.04 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. Rupesh V. Ramani	XXXXXXXX01F	Ph.D	RK Univeristy, Rajkot	Thermal Engineering	20/10/2000	25.9	Lecturer	Associate Professor	13/12/2023	Regular	Yes		Yes
2	Dr. Dipesh D. Kundalia	XXXXXXXX80D	Ph.D	JJT,University, Jhunjhunu	CAD/CAM	20/02/2010	16.5	Assistant Professor	Associate Professor	12/12/2024	Regular	Yes		No
3	Dr. Nirav P. Maniar	XXXXXXXX38P	Ph.D	D.D.University, Nadiad	Mechanical Engineering	01/08/2000	26	Lecturer	Professor	15/12/2023	Regular	Yes		No
4	Prof. Anjana D. Saparia	XXXXXXXX62B	M.E.	S.P. University, V.V. Nagar	Machine Design	07/07/2006	20.1	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Prof.Jay P. Joshi	XXXXXXXX39N	M.Tech	Mumbai University, Mumbai	Machine Design	01/04/2010	16.4	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Prof.Sanket A. Pandya	XXXXXXXX04Q	M.E.	GTU, Ahmedabad	CAD/CAM	01/07/2014	12.1	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Prof. Hardik A. Khunt	XXXXXXXX70B	M.Tech	Nirma University, Ahmedabad	CAD/CAM	30/06/2014	12.1	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Prof. Pooja M. Ghodasara	XXXXXXXX23N	Ph.D	GTU, Ahmedabad	Thermal Engineering	10/06/2015	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Prof.Vijay V. Mehta	XXXXXXXX23M	M.Tech	PDPU, Gandhinagar	Nuclear Engineering	27/01/2014	12.6	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr.Jiten J. Makadia	XXXXXXXX25F	Ph.D	RK Univeristy, Rajkot	Thermal Science	01/01/2016	10.7	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Prof.Sahil Y. Yagnik	XXXXXXXX53A	M.Tech	C.U. Shah University, Surendranagar	CAD/CAM	01/09/2017	8.11	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Prof.Bhavesh B. Raval	XXXXXXXX59Q	M.Tech	RK Univeristy, Rajkot	Thermal	01/03/2022	4.5	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Prof.Akash D. Chavda	XXXXXXXX42R	M.E.	GTU, Ahmedabad	Thermal	10/02/2022	4.5	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Prof.Niraj S. Singhal	XXXXXXXX13G	Ph.D	RK Univeristy, Rajkot	Thermal	13/08/2014	11.11	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Prof.Parth V. Delvadiya	XXXXXXXX88L	M.E.	Kadi Sarvavishwa Vidyalay University, Gandhinagar	Production	03/02/2015	11.6	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Prof. Nirav Meghpara	XXXXXXXX55F	M.Tech	NIT, Kurukshetra	Machine Design	17/06/2015	10.4	Assistant Professor	Assistant Professor		Regular	No	17/10/2025	No
17	Prof. Jasmin Parsotam Bhimani	XXXXXXXX11M	M.Tech	Nirma University, Ahmedabad	CIM	29/09/2014	9.7	Assistant Professor	Assistant Professor		Regular	No	30/04/2024	No

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn= nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm= mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio (**SFR**) = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.
No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.
F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0
Table No.C2. 1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	132	132
UG1.C	132	132	132
UG1.D	132	132	132
UG1: Mechanical Engineering	330	396	396
DS=Total no. of students in all UG and PG programs in the Department	330	396	396
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 330	S2= 396	S3= 396
DF=Total no. of faculty members in the Department	15	16	17
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 15	F2= 16	F3= 17
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= 22.00	SFR2= 24.75	SFR3= 23.29
Average SFR for 3 years	SFR= 23.35		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.				
Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF]
2025-26(CAY)	5	10	16.00	14.06
2024-25(CAYm1)	4	12	19.00	11.58
2023-24(CAYm2)	4	13	19.00	12.11

C4. Faculty Cadre Proportion

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

Table No.C4.1: Faculty cadre proportion details.						
Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	2.00	1.00	4.00	2.00	11.00	12.00
2024-25	2.00	1.00	4.00	1.00	13.00	14.00
2023-24	2.00	0.00	4.00	1.00	13.00	16.00
Average	RF1=2.00	AF1=0.67	RF2=4.00	AF2=1.33	RF2=12.33	AF2=14.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.						
(CAYm1)						
S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled	
1	Mr. Kushal Mehta	Automation Engineer	CESS Automation LLP	Seminar on "Best Engineering Practices and Skill Development"	2.50	
2	Prof. Amit Nehete	DOEEE	MIT, WPU, Pune	Expert talk on Challenges in eMobility & career prospects	2.00	
3	Mr. Rutwik Pamar	Training Expert	Indo-German Tool Room	Seminar on "Enhance Your Skills through IGTR courses.	2.50	
4	Mr.Rameshbhai Rachch	Training Executive	Ravi metal treatment	Expert Lecture on Metal Treatment Processes	2.00	
5	Mr. Darshanbhai Parmar	Training Executive	Khodiyar CAD Solution LLP.	Expert talk on "Designing of product using AUTOCAD"	20.00	
6	Mr. Jagdish Dhera	Sr. Engineer	Pixon Green Energy Private Limited	Expert Lecture on "The Solar Renaissance: Engineering a Brighter, Cleaner Future"	2.00	
7	Mr. Yash Vashiyar Mr. Arshilkhan Pathan	Training Executive	Envision	Expert Session on Product Development	6.00	
8	Dr. Jaysukh Markana	Assistant Professor	Saurashtra University, Rajkot	Expert talk on "Nano-technology in Mechanical Engineering"	4.00	
9	Mr. Milan Goswami	Director	Confidence,Automation PVT.LTD	Seminar on "Graduate to Entrepreneur"	2.00	
10	Mr. Kamlesh Sangani	Energy Auditor & Consultant	M K international Technocrats	One Day Theory cum practical Energy Conservation Awareness Workshop	7.00	

(CAYm2)						
S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled	
1	Mr. Meet Dubey, Mr. Ronak Mehta	Training Expert	Automobile Center of Excellence	Expert lecture on" Challenges and Emerging Perspectives in the Automobile Industry"	3.00	
2	Mr. Yash Bhadeshra	Sr. engineer	Sathway, Rajkot	Precision Manufacturing and CAD/CAM/CNC/VMC Workflows	2.00	
3	Mr. Darshanbhai Parmar	Training Executive	Khodiyar CAD Solution LLP.	Skill development program on AUTOCAD	20.00	
4	"Mr. Ketan Mistry Mr. Asif Makwana Mr. Vishal Patil"	Training Expert	Sopan Institute of Engineering & Design	Workshop on Recent Trends in CAD-CAM	6.00	
5	Mr. Pranav Vaghela	Graduate Trainee Engineer	Nirma Chemical Ltd., Bhavnagar	Expert Lecture on Centrifugal Pump	2.00	
6	Mr. Brijeshbhai Dudhagara	Production Engineer	Prabhu Krupa Engineers	Expert Lecture on "Smart Foundries"	2.00	
7	Mr. Abhishek	Centre Head	RETARC- Rajkot Engg. Association	Advanced Metrology and Engineering Testing	2.00	
8	Mr. Darshan Patel	Trainee Engineer	Jeevan Jyot Casting	Expert lecture on "Casting & Casting Defects"	2.00	
9	Mr. Kishan Kamani	Sr. Engineer	Fibrox 3D Technologies Pvt. Ltd	Expert Lecture on "Digital Twin Workflow"	2.00	
10	Mr. Kamlesh Sangani	Energy Auditor & Consultant	M K international Technocrats	Renewable Energy and Sustainability Awareness Workshop	7.00	
11	Mr. Kandarp Dave	Production Engineer	Echjay Industries Ltd.	Expert Lecture on "Advanced Steel Forging Technologies"	2.00	

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Yogesh Kathrecha	Managing Partner	Intratch Engineering Consultancy LLP., Rajkot	Expert session on be research oriented engineers	2.00
2	Mr. Gaurav Jogi	R & D Engineer	IPR	Expert talk on – "How mechanical engineer can contribute in present era of research"	2.00
3	Mr. Satyajee Zala	GET Trainer	Sathway	Designing for Manufacturability (DFM)	2.00
4	Dr. Chetan M. Patel	Professor & Head	R.K.University, Rajkot	Expert talk on heading to innovation from creativity	2.00
5	Mr. Ravin Bhadja	Founder & CEO	Fine Me Factory	Expert lecture on "Entrepreneurship and career through innovation"	2.00
6	Mr. Subodh Ray	Trainer	Rolex Rings Pvt. Ltd	Smart Bearing & IOT	2.00
7	Mr. Dilipbhai	Sr. Engineer	Top land Industries Pvt. Ltd.	Expert Lecture on "Modern Advancements in Internal Combustion Engine"	2.00
8	Mr. Ashish Malkan	Lecturer	Sonex Compressor	Expert lecture on "jet engine"	2.00
9	Mr. Mohammad Aibani	Business Support Manager, CAD Centre	CADD Centre	Future Scope of Electrical Vehicle Technology	2.00
10	Mr. Naimish Bakshi	Production Supervisor	Unity Milk & Food Products Pvt. Ltd	Expert Lecture on "Mechanical Engineering in Dairy Supply Chain"	2.00
11	Mr. Rajat Delvadia	Sr. Engineer	Sikka power plant	Expert Lecture on "Boiler Dynamics and Combustion Engineering"	2.00
12	Mr. Bijal Jikani	Expert & Trainer	CADD Centre,Gondal Road, Rajkot	Professional Drawing and drafting using AUTOCAD	24.00
13	Mr. Jaydeep Rathod	Technical Manager	Khodiyar CAD center	Skill development program on AutoCAD	42.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	11	8	9
2	No. of peer reviewed conference papers published	2	0	0
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)

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. Dipesh Dhirajlal Kundaliya	Mr. Jay Pankajkumar Joshi	Mechanical	Enhanced Design and Fabrication of Smart IoT-Based Geyser for Customized Applications Including Health Benefits	A Minor Research Project under Research Promotion Scheme (RPS) Sponsored by Gujarat Technological University	2024-25	0.50
						Amount received (Rs.):0.50

(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. Dipesh Dhirajlal Kundaliya	Dr. Nirav Pravinchandra Maniar	Mechanical	Development of a GD&T-Based CMM Learning System for Engineering Students	Rolex Rings Ltd, Rajkot	2023-26	20.00
						Amount received (Rs.):20.00

(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
Dr. Sachin Rajani	Dr. Rupesh Vallabhbhai Ramani	Electrical, Mechanical, Neno	Design, Implementation and Techno-commercial Analysis of Hybrid Nano-Grid Under Dynamic Conditions	GUJCOST STI Policy	2023-25	4.88
						Amount received (Rs.):4.88

Total Amount (Lacs) Received for the Past 3 Years: 25.38**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. Dipesh Dhirajlal Kundaliya	Dr. Rupesh Vallabhbhai Ramani	Mechanical	Energy Audit	GETCO	2024-25	0.20
						Amount received (Rs.):0.20

(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. Dipesh Dhirajlal Kundaliya	Dr. Rupesh Vallabhbhai Ramani	Mechanical	Energy Audit	GETCO	2023-24	0.10
						Amount received (Rs.):0.10

(CAYm3)

Total amount (Lacs) received for the past 3 years: 0.30

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	Material Technology Laboratory/ Mechanical Measurement Laboratory	20	A) 1. Metallurgical microscope model 2. Hardness tester 3. Single disk polishing machine	Odd sem-12 hr	Mr. Kalpesh H. Ahya	Laboratory Assistant	Diploma in Mechanical I
2	Alternate Energy Sources Laboratory/ Automobile Engineering Laboratory	20	A) 1. Direct focusing type octagonal shaped concentrator 2. Precision pyranometer with	Even sem-12 h	Mr. Anirudhdh D. Naiwa	Machinist-Fitter	Part Time Diploma Cou
3	Dynamics of Machine Laboratory	20	1. Motorized gyroscope apparatus 2. Whirling of shaft apparatus 3. Static & dynamic balancing	Odd sem-12 hr	Mr. Kirit N. Gohel	Laboratory Assistant	Diploma in Mechanical I
4	Refrigeration and Airconditioning Laboratory	20	1. Re-circulation type air-conditioning 2. Water to water heat pump 3. Split air	Odd sem-06 hr	Mr. Paras R. Modi	Laboratory Assistant	Diploma in Mechanical I
5	Engineering Thermodynamics Laboratory	20	1. Four strokes four-cylinder I.C. engine test rig (petrol) 2. Single cylinder four stroke diesel	Odd sem-32 hr	Mr. Samir K. Kanaiya	Laboratory Assistant	Diploma in Fabrication
6	Fluid Mechanics & Machines Laboratory	20	1. Flow measurement, pipe fitting & Pipe friction apparatus (3 in 1 setup) 2. Centrifugal pump	Odd sem.-08 h	Mr. Kirit N. Gohel	Laboratory Assistant	Diploma in Mechanical I
7	Workshop	20	1. Computer Numerical Control (CNC) turning center 2. Vertical Machining Center (VMC) machine	Odd sem-22 hr	A) Mr. Ramesh D. Rava	A) Workshop Instructor	A) Diploma in Tools Eng
8	CAD and Solid Modelling Laboratory	20	1. Computer systems (4 Nos.) (Core i3, 1TB HDD, 8GB RAM) 2. Computer systems (11 Nos.) (Core i3, 4TB HDD, 16GB RAM)	Odd sem.-02 h	Mr. Paras R. Modi	Laboratory Assistant	Diploma in Mechanical I
9	Drawing Hall (4 Nos.)	20	Interactive Panel (G05), Drawing Tables: G05- 35, A102(b)- 25, A202(a)-25, A202(b)-25	Odd sem. G05-	Mr. Chaman B. Sindhav	Draftsman	I.T.I. Draughtsman Mecl
10	EGD Computer Laboratory	20	Computer systems (22 Nos.) (Core i3, 500GB HDD, 8GB RAM) Licensed software: AutoCAD	Odd sem-16 hr	Mr. Chaman B. Sindhav	Draftsman	I.T.I. Draughtsman Mecl
11	Process Heat Transfer	20	1. Thermal Conductivity of Metal Rod Apparatus 2. Forced Convection Apparatus 3. Lagged Pipe	Odd sem.- 06 h	Mr. Paras R. Modi	Laboratory Assistant	Diploma in Mechanical I

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Basic safety measures	• First aid box is available in the department. • The college is equipped with a fire hydrant system covering the entire campus. • Fire extinguishers are also kept in passage between laboratories at ground and first floor of department. The department has fifteen ABC-type/CO ₂ -type fire extinguishers with capacities ranging from 2 to 6 kg. Maintenance and refilling of fire extinguishers are done on regular basis. At college level a training session for all staff members regarding the usage of fire extinguisher is conducted. • MCB/ ELCB and proper rating fuse are used to safeguard from electrical fault. • Proper earthing is provided. • Cell phone is prohibited. • CCTV camera is provided for security measures. • Proper ventilation is provided. • When device is not in use, it is switched off. • Laboratory wise safety measures are displayed and time to time students are made aware about them during orientation program.
2	Material Technology Laboratory/ Mechanical Measurement Laboratory	• Use gloves while working on furnace. • If any laboratory equipment is malfunctioning, sparking, smoking, inform immediately to laboratory assistant or faculty in charge. • Wash your hands immediately after specimen preparation for metallurgical microscope. • Make sure that measuring instrument does not fall or collide with anything which can damage the instrument. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed.
3	Alternate Energy Sources/ Automobile Engineering Laboratory	• Handle heavy components carefully while dismantling. • Wear shoes before dismantling any component. • Disassemble components only in the presence of laboratory supervisor. • Take care of fragile components. • Use gloves while handling hot fluid devices. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed.
4	Dynamics of Machine Laboratory	• Be aware of experiment controls (start button, stop button, speed control) for each experimental set up. • Switch off power supply of the experimental setup on completion of the experiment. • Machines must not be left unattended. • Immediately report any equipment's malfunctioning, injuries or other perceived safety hazards to instructor / staff member. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed.
5	Refrigeration and Air-conditioning Laboratory	• Before switching ON supply, make sure that all the switches on the panel board are off & the dimmer stat is at 'Zero' position. • Do not touch any component of equipment or moving part while it is in working condition. • Ensure practical to be performed in the presence of laboratory supervisor. • For reasons of safety, wear shoes. • In case of any electrical hazard or leakage of refrigerant, report immediately to the teacher/ technical assistant nearby. • Make sure that floor around the equipment/ machine is clear and dry (not oily) to avoid slipping. • Performance of the practical should be avoided if machine appears defective. • Ensure the refrigerant refilling valve placed near compressor should not be touched to avoid leakage of refrigerant. • The evaporator should be filled with adequate water. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed.
6	Engineering Thermodynamics Laboratory	• Avoid switching on the instrument without prior permission. • Avoid touching any component of equipment which is in working condition. • In case of any fuel leakage from equipment, report immediately to nearby supervisor. • Space around the equipment should be clean and dry to avoid slippage. • Performance of practical should be done only in the presence of supervisor. • Do not remove any component from models placed in laboratory. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed.

7	Fluid Mechanics & Machines Laboratory	• Do not lean on equipment for any kind of support. • Make sure all spilled liquids are wiped up immediately to avoid slipping. • Bodily injury or instrument damage may result if set up is run without trained instructor. • Drain and dry all tanks after performing practical to prevent lining. • Run the pump with bypass valve fully open and check the strainer regularly to avoid blockage. • Use of abrasive cloth for cleaning tanks should be avoided to prevent scratching. • Always use clean water. Hard, chlorinated or saline water should not be strictly used. • Be sure that the bearings are fully lubricated. • Overheating and/or loss of prime will result if the pump is operated against a closed valve for more than a few minutes. • Avoid performing practical if machine appears defective. • Switch off the power supply after completion of the practical. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed.
8	Workshop	• Wear protective safety boots / shoes when entering the workshop. • Wear apron properly during the workshop activity & do not wear loose clothing during work. • Use protective equipment like hand gloves, goggles, safety glass etc. during welding / grinding / casting work. • Ensure adequate lighting in the working area. • Long hair & dangling jewelry are hazardous while working. • Be gentle and systematic while handling of machine tools during work. • If any laboratory equipment is malfunctioning, making strange noise, sparking, smoking, get contact to an instructor or staff immediately. • Use brush for removing the chips. • Do not play with tools and machines. • Always stop a machine before cleaning it or taking measurements from a work piece. • All accidents, no matter how minor, should be reported to the faculty/staff member supervising the laboratory immediately & use first aid box. • Avoid using extension cords whenever possible. • Immediately use the fire extinguishers, in case of fire. • Do not lubricate a machine while it is running. • Do not keep tools on the machine. • Always keep the workshop clean and tidy. • Do not eat or drink in the workshop lab. • Do not work alone in the workshop.
9	CAD and Solid Modelling Laboratory	Dos: • Report fire or accidents to laboratory assistant / faculty member immediately. • Report to your laboratory assistant immediately if you receive even a mild shock from any computer device. • Report any broken plugs or exposed electrical wires to your laboratory assistant / faculty member immediately. • Properly shut down computer system and switch off power supply before leaving the laboratory or when system is not in use. • Use the computer system with clean hands and also keep your workstation clean. • Switch off electric supply to the computer system during power failure. • Save your data on regular basis and take regular backup of your work. • Do only academic / assigned work on the computer system. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed. Don'ts: • Do not open the computer system unit casing or monitor casing particularly when the power is turned on. • Do not put water glass/water bottle and metal objects such as clips, pins and needles on the computer system. • Do not plug or unplug any cable of computer system/setup without permission of faculty / laboratory assistant. • Do not insert any device like pendrive or hard disk in computer system without permission of your faculty / laboratory assistant. • Don't change computer system setting without permission of your faculty / laboratory assistant. • Don't install any program without permission of your faculty / laboratory assistant. • Do not eat or drink in the laboratory. • Do not open any restricted websites. • Do not sit on computer table.
10	EGD CAD Laboratory	Dos: • Report fire or accidents to laboratory assistant / faculty member immediately. • Report to your laboratory assistant immediately if you receive even a mild shock from any computer device. • Report any broken plugs or exposed electrical wires to your laboratory assistant / faculty member immediately. • Properly shut down computer system and switch off power supply before leaving the laboratory or when system is not in use. • Use the computer system with clean hand and also keep your workstation clean. • Switch off electric supply to the computer system during power failure. • Save your data on regular basis and take regular backup of your work. • Do only academic / assigned work on the computer system. • Use fire extinguishers which are kept in passage on each floor to extinguish the fire. • Use first aid box which is available in the department as and when needed. Don'ts: • Do not open the computer system unit casing or monitor casing particularly when the power is turned on. • Do not put water glass/water bottle and metal objects such as clips, pins and needles on the computer system. • Do not plug or unplug any cable of computer system/setup without permission of faculty / laboratory assistant. • Do not insert any device like pendrive or hard disk in computer system without permission of your faculty / laboratory assistant. • Don't change computer system setting without permission of your faculty / laboratory assistant. • Don't install any program without permission of your faculty / laboratory assistant. • Do not eat or drink in the laboratory. • Do not open any restricted websites. • Do not sit on computer table.
11	Process Heat Transfer	• Read the experiment procedure before starting the practical. • Perform experiments only under the supervision of the laboratory instructor. • Keep the laboratory clean and dry. • Do not run, play, or create unnecessary disturbances. • Report any damaged equipment or accidents immediately. • Switch OFF all electrical equipment after completing the experiment. • Do not leave the experiment unattended during the performance. • Keep safe distance from machines/equipment and hot surfaces as well as hot water lines during its usage to avoid accidents. • Do not touch any equipment with wet hands to avoid electric shocks.
12	Project/ Research Laboratory	Dos: • Use research/ project laboratory only after prior permission. • Wear protective safety equipment whenever working on machine/ machine tool. • Report accidents, fires or injuries immediately. • Handle prototypes cautiously, minding moving parts and sharp edges. • Follow 3D printer operating, monitoring and cooling procedures. • Inspect all hand and power tools before use and report damage. • Store raw materials safely in designated areas. • Shut down machinery and clean workstations after use. • Know the locations of fire extinguishers and first aid kits. • Follow operating procedure for shutdown of the computer after completion of work. • Follow workshop safety measures while working on workshop shop floor. Don'ts: • Do not wear loose clothing, dangling jewelry or leave long hair untied. • Do not operate machinery without permission. • Do not bypass, alter or remove machine safety guards. • Do not leave active machinery or 3D printers unattended. • Do not eat or drink in the laboratory. • Do not leave tools, blades or materials exposed on workbenches. • Do not manually stop moving parts or rotating spindles. • Do not leave computers turned ON after completing your work.

D3. Project Laboratory/Research Laboratory

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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. E.1.1: 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)	660	33	10	61	61
2024-25(CAYm1)	510	26	13	68	92
2025-26(CAY)	540	27	16	72	101

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	9507000	7216979	3390000	1207780	4974700	3431885	4312000	2020794
Library	605000	282805	620000	206759	673000	299835	918000	411040
Laboratory equipment	7231000	4177712	4667000	7513940	3038000	2012028	7112000	8664821
Teaching and non-teaching staff salary	156500000	156388865	144000000	143607589	130500000	130464737	128500000	128296185
Outreach Programs	7579500	3606846	4275500	3235615	3470220	2289939	2852250	1249890
R&D	622000	146761	260000	143669	451000	47452	873500	106369

Training, Placement and Industry linkage	1615000	322970	664000	518017	1019860	380690	383000	237887
SDGs	2429000	901941	2169000	1347882	8010000	8001498	7000000	6946279
Entrepreneurship	800000	408323	500000	223264	575000	478792	575000	114488
Others, specify	34249500	25191743	27600000	20264197	32013019	23152258	26314821	20763462
Total	221138000	198644945	188145500	178268712	184724799	170559114	178840571	168811215

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	100000	48894	280000	216408	150000	95778	375000	307865
Software	280000	247028	72911	62279	112513	80033	44147	41571
SDGs	95000	15169	40000	17700	40000	13318	40000	14300
Support for faculty development	51376	41840	17347	16480	0	0	0	0
R & D	45000	1500	45000	16698	200000	0	50000	8600
Industrial Training, Industry expert, Internship	70000	6559	70000	48000	140000	28050	80000	31530
Miscellaneous Expenses*	23114848	22970499	23938769	23782233	24838766	24707872	25100626	24950848
Total	23756224	23331489	24464027	24159798	25481279	24925051	25689773	25354714