

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 11362	Date of Submission : 07-01-2026

PART A- Profile of the Institute

A1. Name of the Institute: Parul Institute of Engineering and Technology	
Year of Establishment : 2003	Location of the Institute: PO LIMDA TA WAGHODIA DIST VADODARA
A2. Institute Address: P.O. : LIMDA,TA. WAGHODIA.	
City:Vadodara	State:Gujarat
Pin Code:391760	Website:www.paruluniversity.ac.in
Email:piet@paruluniversity.ac.in	Phone No(with STD Code):02668-260204
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Vadodara
State : Gujarat	Pin Code: 391760
A4. Type of the Institution: University	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **9**
- No. of PG programs: **8**

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	Computer Application	PG	Master of Computer Application	2015	--	Computer Application
2	Engineering & Technology	UG	Aeronautical Engineering	2015	--	Aeronautical Engineering
3	Engineering & Technology	UG	Aerospace Engineering	2025	--	Aeronautical Engineering
4	Engineering & Technology	PG	CAD/CAM	2023	--	Mechanical Engineering
5	Engineering & Technology	UG	Civil Engineering	2015	--	Civil Engineering
6	Engineering & Technology	PG	Computer Engineering	2015	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering	2015	--	Computer Science and Engineering
8	Engineering & Technology	PG	Construction Project Management	2023	--	Civil Engineering
9	Engineering & Technology	UG	Electrical Engineering	2015	--	Electrical Engineering
10	Engineering & Technology	UG	Electronics & Communication Engineering	2015	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	Information Technology	2015	--	Information Technology
12	Engineering & Technology	PG	Information Technology	2015	--	Information Technology
13	Engineering & Technology	UG	Mathematics & Computing	2024	--	Applied Sciences and Humanities
14	Engineering & Technology	UG	Mechanical Engineering	2015	--	Mechanical Engineering

15	Engineering & Technology	PG	Structural Engineering	2015	--	Civil Engineering
16	Engineering & Technology	PG	Transportation Engineering	2015	--	Civil Engineering
17	Management	PG	Master of Business Administration	2015	--	Management

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
Civil Engineering	No	Civil Engineering	UG
Computer Science and Engineering	No	Computer Science and Engineering	UG
Electrical Engineering	No	Electrical Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
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 APPROVAL DETAILS
1	Electrical Engineering	UG	2015 / --	150	Yes	2016	90	2016	BoG

Sanctioned Intake for Last Five Years for the Electrical Engineering

Academic Year	Sanctioned Intake
2025-26	90
2024-25	90
2023-24	90
2022-23	90
2021-22	90
2020-21	90

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. Rital Rakeshkumar Gajjar
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)	90	90	90	90	90	90	90

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	41	47	19	27	42	34	25
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	40	56	49	43	51	39
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	41	87	75	76	85	85	64

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)	90	41	0	45.56
2024-25 (CAYm1)	90	47	0	52.22
2023-24 (CAYm2)	90	19	0	21.11

Average $[(ER1 + ER2 + ER3) / 3] = 39.63 \approx 0.00$

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).	133.00	141.00	129.00
B=No. of students who graduated from the program in the stipulated course duration	77.00	79.00	54.00
Success Rate (SR)= (B/A) * 100	57.89	56.03	41.86

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 51.93

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)	4.56	5.12	4.79
Y=Total no. of successful students	47.00	19.00	27.00
Z=Total no. of students appeared in the examination	47.00	19.00	27.00
API $[X*(Y/Z)]$	4.56	5.12	4.79

Average API $[(AP1+AP2+AP3)/3]$: 4.82

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	5.02	5.52	6.12
Y=Total no. of successful students	64.00	66.00	79.00

Z=Total no. of students appeared in the examination	75.00	76.00	81.00
API [X * (Y/Z)]	4.28	4.79	5.97

Average API [(AP1 + AP2 + AP3)/3] : 5.01

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)	6.06	5.75	5.88
Y=Total no. of successful students	65.00	79.00	79.00
Z=Total no. of students appeared in the examination	66.00	79.00	82.00
API [X*(Y/Z)]:	5.97	5.75	5.66

Average API [(AP1 + AP2 + AP3)/3] : 5.79

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	133.00	141.00	129.00
X=No. of students placed	54.00	60.00	41.00
Y=No. of students admitted to higher studies	6.00	7.00	8.00
Z= No. of students taking up entrepreneurship	6.00	3.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	49.62	49.65	37.98

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 45.75 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)	Curr Assc (Y/N)
1	Dr. Rital Rakeshkumar Gajjar	XXXXXXXX43P	Ph.D	Gujarat Technological University	Electrical Engineering	15/07/2004	21.5	Lecturer	Professor	02/07/2025	Regular	Yes
2	Manish Mahendrabhai Pandya	XXXXXXXX17F	M.E.	The Maharaja Sayajirao University of Baroda	Electrical Engineering	29/01/2004	21.10	Lecturer	Assistant Professor		Regular	Yes
3	Falguni Ajay Talajjiya	XXXXXXXX94A	M.E.	The Maharaja Sayajirao University of Baroda	Electrical Engineering	02/06/2007	18.6	Lecturer	Assistant Professor		Regular	Yes
4	Deepa Bhavin Karvat	XXXXXXXX80C	M.E.	The Maharaja Sayajirao University of Baroda	Electrical Engineering	02/02/2008	17.10	Lecturer	Assistant Professor		Regular	Yes
5	Girish Vasantrao Jadhav	XXXXXXXX66F	M.E.	The Maharaja Sayajirao University of Baroda	Automatic Control & Robotics	01/07/2010	15.5	Lecturer	Assistant Professor		Regular	Yes
6	Binal Hardikkumar Modi	XXXXXXXX23J	M.E.	Gujarat Technological University	Electrical Engineering	15/07/2010	15.5	Lecturer	Assistant Professor		Regular	Yes

7	Ishan Mukeshchandra Desai	XXXXXXXX91M	M.Tech	Nirma University	Electrical Power Systems	16/10/2012	13.2	Assistant Professor	Assistant Professor		Regular	Yes
8	Ashish PravinChandra Shah	XXXXXXXX31G	M.Tech	Nirma University	Electrical Engineering	17/06/2013	12.5	Assistant Professor	Assistant Professor		Regular	Yes
9	Rajul Pravinchandra Shah	XXXXXXXX55C	M.Tech	Parul University	Electrical Engineering	11/07/2013	12.5	Lecturer	Assistant Professor		Regular	Yes
10	Vikashkumar Varma	XXXXXXXX51H	M.Tech	Maulana Azad National Institute of Technology	Electrical Engineering	15/07/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes
11	Krunalsinh Himmatsinh Dattesh	XXXXXXXX94N	M.Tech	Nirma University	Power Electronics, Machine and Drives	19/09/2013	12.3	Assistant Professor	Assistant Professor		Regular	Yes
12	Vinay Kumar Yadav	XXXXXXXX90R	M.Tech	Nirma University	Power System	01/01/2016	9.11	Assistant Professor	Assistant Professor		Regular	Yes
13	Digeshkumar Dilipkumar Shah	XXXXXXXX04C	M.E.	Gujarat Technological University	Electrical Power System	21/12/2021	3.11	Assistant Professor	Assistant Professor		Regular	Yes
14	Dr. Arkdev	XXXXXXXX18E	Ph.D	National Institute of Technology, Manipur	Electrical Engineering	01/07/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes
15	Satishkumar Laxmanbhai Chauhan	XXXXXXXX19A	M.Tech	Charotar University of Science and Technology (CHARUSAT), Changa	Power Systems	15/06/2023	2.6	Assistant Professor	Assistant Professor		Regular	Yes
16	Nishith Jitendrakumar Shahu	XXXXXXXX60J	M.Tech	SunRise University	Power Systems	15/06/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes
17	Dr. Kartik Shashikant Pandya	XXXXXXXX45J	Ph.D	The Maharaja Sayajirao University of Baroda	Electrical Engineering	01/08/2023	2.5	Professor	Professor	01/08/2023	Regular	Yes
18	Atmiya Manojbhai Patel	XXXXXXXX54G	M.E.	Gujarat Technological University	Electrical Engineering	04/09/2023	2.3	Assistant Professor	Assistant Professor		Regular	Yes
19	Dr. Shubhrajyoti Kundu	XXXXXXXX74N	Ph.D	National Institute Of Technology, Durgapur	Electrical Engineering	03/02/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes
20	Dr. Ranjeet Kumar	XXXXXXXX43M	Ph.D	Gautam Buddha University	Electrical Engineering	01/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes
21	Dr. K.Vasudevan	XXXXXXXX25H	Ph.D	Anna University	Electrical Engineering	05/06/2023	2.1	Associate Professor	Associate Professor		Regular	No
22	Dr. Vineet Kumar	XXXXXXXX22N	Ph.D	National Institute of Technology, Hamirpur	Electrical Engineering	17/07/2023	1.10	Assistant Professor	Assistant Professor		Regular	No
23	Dr. Kunalkumar Prakashbhai Bhatt	XXXXXXXX96N	Ph.D	Malaviya National Institute of Technology, Jaipur	Electrical Engineering	07/07/2022	2.5	Assistant Professor	Assistant Professor		Regular	No

24	Dr. Heli Shah	XXXXXXXX44G	Ph.D	Sardar Vallabhbhai National Institute of Technology	Electrical Engineering	02/07/2020	5.6	Professor	Professor	02/07/2020	Regular	Yes
25	Dr. Jigneshkumar P. Desai	XXXXXXXX23K	Ph.D	Gujarat Technological University	Electrical Engineering	22/07/2024	1.5	Associate Professor	Associate Professor	22/07/2024	Regular	Yes
26	Dr. Sharad Kumar Tiwari	XXXXXXXX93L	Ph.D	Thapar Institute of Technology	Electrical Engineering	06/05/2024	1.8	Assistant Professor	Assistant Professor		Regular	Yes
27	Dr. Vivek Kumar	XXXXXXXX84C	Ph.D	IFTM University	Electrical Engineering	08/07/2024	1.5	Assistant Professor	Assistant Professor		Regular	Yes

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

C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

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

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

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

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

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

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

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

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

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

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	99	99	99
UG1.C	99	99	99
UG1.D	99	99	99
UG1: Electrical Engineering	297	297	297
DS=Total no. of students in all UG and PG programs in the Department	297	297	297
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= 297	S2= 297	S3= 297
DF=Total no. of faculty members in the Department	24	24	21
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= 24	F2= 24	F3= 21
FF=The faculty members in F who have a 100% teaching load in the first-year courses	3	3	3
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 14.14	SFR2= 14.14	SFR3= 16.50
Average SFR for 3 years	SFR= 14.93		

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 = $2.5 \times [(10X + 4Y) / RF]$
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2025-26(CAY)	8	16	14.00	25.71
2024-25(CAYm1)	9	15	14.00	26.79
2023-24(CAYm2)	7	14	14.00	22.50

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ 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 = $2/9 \times$ 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 = $6/9 \times$ 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	1.00	3.00	3.00	1.00	9.00	20.00
2024-25	1.00	2.00	3.00	3.00	9.00	19.00
2023-24	1.00	2.00	3.00	2.00	9.00	17.00
Average	RF1=1.00	AF1=2.33	RF2=3.00	AF2=2.00	RF2=9.00	AF2=18.67

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. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Electrical Energy Conservation and Audit	15.00
2	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Power System 1	30.00
3	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Industrial Safety	30.00
4	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Power Plant Engineering	15.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	AC Machine & Transmission Line Design	30.00
2	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Electrical Installation, Maintenance & Testing	30.00
3	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Power System 1	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	AC Machine & Transmission Line Design	15.00
2	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Industrial Safety	15.00
3	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Transformer & DC Machine Design	30.00
4	Mr. Prakash Amrutlal Shah	Visiting Faculty	Parul University	Power System 1	30.00

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	13	17	1

2	No. of peer reviewed conference papers published	10	4	1
3	No. of books/book chapters published	0	3	0

C7. Sponsored Research Project

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

(CAYm1)

(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. Vishal Sandhwar	Dr. Kartik Pandya, Prof. Manish Pandya, Dr. Rital Gajjar	Electrical, Chemical	Advancing Green Hydrogen Production through Electrolysis: Optimization and Renewable Energy Integration	Royal Academy of Engineering, UK	1 Year 2 Months	65.65
						Amount received (Rs.):65.65

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 65.65

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
Binal Modi	-	Universal Midcap Ltd, Vadodara	Energy Audit	Soham Technologies, Vadodara	2 Days	0.04
Ishan Desai	-	Verni Gastech Pvt. Ltd., Ankleshwar	Energy Audit	Soham Technologies, Vadodara	2 Days	0.04
Binal Modi	-	Koshambh Multitred Pvt Ltd, Manjusar	Energy Audit	Soham Technologies, Vadodara	2 Days	0.04
						Amount received (Rs.):0.12

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years: 0.12

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
Dr. Kartik Pandya	Predicting compressive strength of concrete with iron waste: a BPNN approach	12 Months	0.08	0.08	Journal Research Paper Publication
Dr. Kartik Pandya	An enhanced weighted ensemble approach for predicting concrete compressive strength	12 Months	0.08	0.08	Journal Research Paper Publication
Satish Chauhan	Design and Simulation of Impulse Voltage Generator using PSpice	12 Months	0.10	0.10	Conference Research Paper Publication
Dr. Rital Gajjar	State of charge control based improved hybrid energy storage system for DC microgrid	12 Months	0.08	0.08	Journal Research Paper Publication
Dr. Vineet Kumar	Optimal voltage and frequency control strategy for renewable dominated deregulated power network	12 Months	0.06	0.06	Journal Research Paper Publication
			Amount received (Rs.): 0.40		

(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
Dr. Arkdev	Development of Micro EDM Setup based on Magnetic Levitation	24 Months	2.75	0.15	Prototype Development
Dr. Kunal Bhatt	Design and Development of Bidirectional Resonant Electrical Vehicle EV to EV Chargers	24 Months	3.25	0.50	Equipment / Component Purchase
			Amount received (Rs.): 6.00		

(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
Akash Barva	International Conference on Power, Instrumentation, Energy and Control (PIECON 2023)	1 Day	0.04	0.04	Conference Research Paper Publication
			Amount received (Rs.): 0.04		

Total amount (Lacs) received for the past 3 years : 6.44

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	Electrical and Electronics Engineering Lab	30	Verification of Kirchoff's law kit Star Delta verification Kit Transformer	Sem – I & Sem	Alpeshbhai Ja	Lab Assistant	ITI
2	Electrical and Electronics Engineering Lab	30	Digital Storage Oscilloscope, 4 channel, 200 MHz Transistor Char. Tester for DMM Test Transistor	Sem – I & Sem	Patel Hetkumã	Lab Assistant	ITI
3	Basic Electrical Engineering Lab	30	1.Verification of Kirchoff's law kit 2. Star Delta verification Kit 3. Transformer	Sem – I & Sem	Pradip Bhabhc	Lab Technician	Diploma in Ele
4	Power System Protection Lab	30	O/C and E/F Protection Panel Differential Protection Of Transformer Panel Radial Feeder	Sem –V, VI Od	Tarun Tadvi	Lab Assistant	ITI

5	Electrical Machines Lab	30	1.DC Shunt Motor & DC Shunt Generator 3HP/220 V/1500 RPM / DC Shunt motor 4.5HP/220V	Sem - III & IV	Hardik Solanki Lab Assistant ITI
6	Measurement & Instrumentation Lab	30	1.Measure Linear Displacement by LVDT 2. WHESTONE BRIDGE/Chebyshev Bridge	Sem - VI, V Odd	Hardik Solanki Lab Assistant ITI
7	High Voltage Lab	30	1.Variable high Voltage Source ;20-100kv 2. AC/20-100KVDC 3. Measurement of dielectric loss	Sem – V Odd:	Haresh Vasav: Lab Assistant Diploma in Ele
8	Software Lab I	30	1.Scilab Software 2. MATLAB	Sem –III - VIII	Haresh Vasav: Lab Assistant Diploma in Ele
9	Power Electronics Lab	30	1.Switched Mode DC-DC Converter Trainer 2. Isolated DC-DC Converter Trainer 3. Isolated DC-DC Bridge	SEM – III,IV & V	Tarun Tadvi Lab Assistant ITI
10	Software Lab II	30	1.Scilab Software 2. MATLAB	Sem –III - VIII	Haresh Vasav: Lab Assistant Diploma in Ele

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Electrical and Electronics Engineering Lab	1. MCB's are provided for each experiment table. 2. Students are allowed to the laboratory with shoes. 3. Use of mobile phones is strictly prohibited. 4. Display of safety Instructions. 5. Availability of First Aid Box.
2	Basic Electrical Engineering Lab	1. MCB's are provided for each experiment table 2. Students are allowed to the laboratory with shoes. 3. Use of mobile phones is strictly prohibited. 4. A fire extinguisher is available in the lobby area. 5. Display of safety Instructions. 6. Availability of First Aid Box.
3	Power System Protection Lab	1. All the major electrical equipment is provided with Earthing. 2. MCB's are provided for each experiment. 3. Students are allowed to the laboratory with shoes. 4. A fire extinguisher is available in the lobby area. 5. Use of mobile phones is strictly prohibited. 6. Display of safety Instructions. 7. Availability of First Aid Box.
4	Electrical Machines Lab	1. Separate AC, DC and Rectifier panels are provided with earthing. 2. All the major electrical equipment's are provided with Earthing 3. MCB's are provided for each experiment. 4. Rubber mats are available at each experiment table. 5. Students are allowed to the laboratory with shoes. 6. A fire extinguisher is available in the lobby area. 7. Use of mobile phones is strictly prohibited. 8. Display of safety Instructions. 9. Availability of First Aid Box
5	Measurement & Instrumentation lab	1. Separate AC, DC and Rectifier panels are Provided with earthing. 2. All the major electrical equipments are provided with Earthing 3. MCB's are provided for each experiment. 4. Rubber mats are available at each experiment table. 5. Students are allowed to the laboratory with shoes. 6. A fire extinguisher is available in the lobby area. 7. Use of mobile phones is strictly prohibited. 8. Display of safety Instructions. 9. Availability of First Aid Box.
6	High Voltage Lab	1. All the major electrical equipment is provided with Earthing. 2. MCB's are provided for each experiment 3. Students are allowed to the laboratory with shoes. 4. Use of mobile phones is strictly prohibited. 5. A fire extinguisher is available in the lobby area. 6. Display of safety Instructions. 7. Availability of First Aid Box.
7	Software Lab	1. Students are allowed to the laboratory with shoes. 2. Use of mobile phones is strictly prohibited. 3. Display of safety Instructions. 4. A fire extinguisher is available in the lobby area. 5. Availability of First Aid Box.
8	Power Electronics Lab	1. All the major electrical equipments are provided with Earthing 2. MCB's are provided for each table. 3. Students are allowed to the laboratory with shoes. 4. Use of mobile phones is strictly prohibited. 5. Display of safety Instructions. 6. A fire extinguisher is available in the lobby area. 7. Availability of First Aid Box

D3. Project Laboratory/Research Laboratory

7.5 (A) Availability of project laboratories/research laboratories:

The department provides well-equipped and accessible project/research laboratories that effectively support student projects, faculty research, and innovation activities. Dedicated labs are available for core domains of Electrical Engineering.

Key highlights:

- **Dedicated Project Labs:** Separate spaces for final-year projects and research work.
- **Modern Equipment & Software:** High-performance systems, software.
- **Research Support:** Specialized Laboratories support interdisciplinary research and innovation.
- **Extended Lab Hours:** Flexible access beyond class hours for project work.
- **Safety & Compliance:** Proper safety guidelines, supervision, and maintenance protocols

Project and Research Laboratories at Electrical Engineering:

1. Project & Research Lab
2. Idea Lab
3. Founder Studio

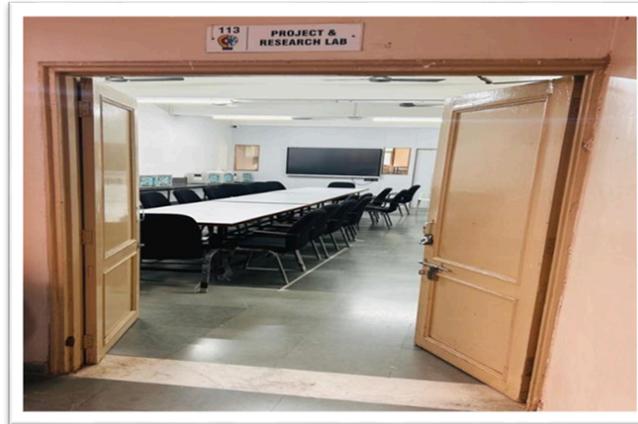


Figure 7.5.1: Project and Research Lab



Figure 7.5.2: Idea Lab



Figure 7.5.3: Founder's Studio

7.5 (B) Availability of Centre of Excellence:

It bridges the gap between classroom concepts and industrial practices, enabling students to design, simulate, and troubleshoot real-time automation systems. The lab strengthens employability by preparing students with practical, industry-ready skills highly valued in modern manufacturing and process industries.

Centre of Excellence at Electrical Engineering:

1. Centre of Excellence for Industrial Automation
2. MG Motors Electric Vehicles Centre under MG nurture program



Figure 7.5.4: Centre of Excellence for Industrial Automation

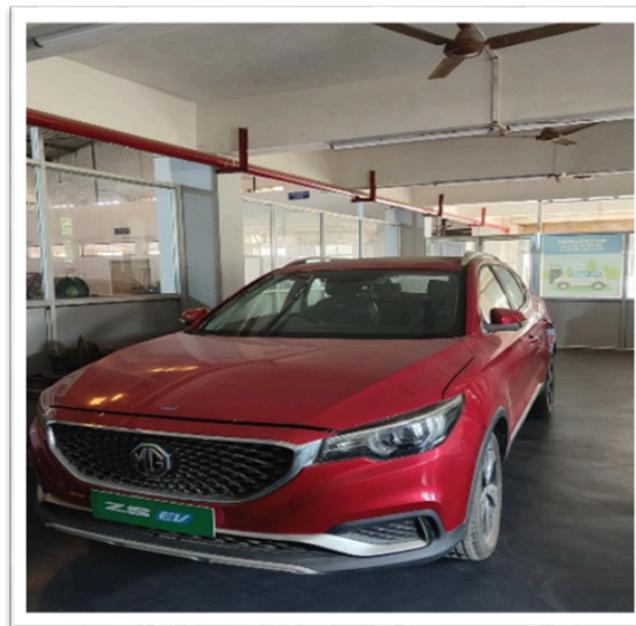


Figure 7.5.5: MG Motors Electric Vehicles Centre under MG nurture program

7.5 (C) Utilization of project laboratories/research laboratory /Centre of excellence and 7.5 (D) Relevance to POs/PSOs

The project laboratories, research laboratories, and Centres of Excellence (CoEs) are **optimally utilized** throughout the academic year for student projects, faculty research, industry collaboration, training programs, and innovation activities. Utilization is structured, monitored, and outcome-oriented.

- The facility is also available for modeling and data validation work after the experimental work.
- Anti-plagiarism software etc. are used to check the project thesis at the central library of the university.
- The facility is used by students as well as faculty members.
- They use central library facilities of the university wherever required for literature work.

Modes of Utilization:

- **Student Projects:** Final-year major projects, minor-projects, project work of Product Realization course conducted at Project and Research Lab and Center of Excellence for Industrial Automation.
- **Faculty Research:** Funded research projects, consultancy work executed in research labs.
- **Certifications & Training:** Regular skill-development programs and certification courses in collaboration with industry.

Table 7.5.1: (c) Utilization of project laboratories/research laboratory /Centre of excellence and (d) Relevance to POs/PSOs

Sl. No	Name of Laboratory	Details of project works carried out in Project Laboratory / Center of Excellence	Utilization	Other Facilities available	PO/PSO
1.	Project & Research Laboratory	<ol style="list-style-type: none"> 1. Analyze & validate the results obtained 2. Scope for further research is explored. 3. Preparation of the project proposal for funding. 4. Results of tests carried out in the project are discussed. 5. Preparation of project report. 6. Preparation of technical papers for publication in journals and conferences. 	III, VII and VIII sem 6 hrs. per week for Product Realization Course 12 hrs. per week for Final Year Project	AC DC meters DSO Power electronic Converter kits Microcontroller Kits Computer Systems Advance Electrical Machines and Drives Soldering Facility	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PO11 PSO1,PSO2
2.	Center of Excellence for Industrial Automation	<ol style="list-style-type: none"> 1. Hands on Workshop on PLC, HMI & SCADA 2. Industrial Automation Lab 	14 hrs - Industrial Automation Lab Training students on industrial automation systems, real-time control, and monitoring	Industrial Automation Lab with PLC kits, HMI panels Lift Project (DC motor with External Encoder) (Including PLC panel) Manufacturing and Supply of Two Material mixing in tank and heating with heater in tank. Includes tanks for material mixing. Control panel for PLC Photo Electric Sensors, Thermistors, Float Switch, and Motion Sensor. KTP 900 Basic HMI 9" Inch Diagonal Size Display Mechanical Model Conveyor Based Color Sorting with Sensor and Pneumatic Air Gun for Remove Objects Danfoss / Schneider make VFD,0.5 HP VFD	PO1,PO2,PO3,PO5,PO6,PO7,PO8,PO9 PSO1,PSO2
3	Center of Excellence - MG Motors Electric Vehicles Centre under MG nurture program	<ol style="list-style-type: none"> 1. FDPs, expert sessions etc. 	For Students/Faculty Development as needed	MG Electric Vehicle.	PO1,PO2,PO3,PO5,PO6,PO7,PO10 PSO1,PSO2

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 $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2023-24(CAYm2)	1920	96	53	86	62
2024-25(CAYm1)	1680	84	57	99	78
2025-26(CAY)	1650	82	54	100	77

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	2000000	1395625	600000	1522500	3000000	558280	3020000	2953672
Library	11500000	10239783	400000	11170672	2800000	286496	2810000	2713622
Laboratory equipment	10000000	17939979	4100000	19570886	700000	373983	750000	683869
Teaching and non-teaching staff	710065000	442789454	336550000	512102034	324700000	317815471	335840000	310137171
Outreach Programs	21500000	4705204	4120000	5132950	10430000	3807709	10380000	10295112
R&D	1500000	6266250	5599000	6835909	9310000	5345256	10000000	9205092
Training, Placement and	11000000	14563908	59750000	15887900	17790000	59445096	17461000	17646077
SDGs	13000000	11719368	17040000	12784765	13820000	16420222	13538000	13109520
Entrepreneurship	150000000	124853350	73500000	136203654	76870000	71172416	77110000	75285035
Others, specify	0	0	0	0	0	0	0	0
Total	930565000	634472921	501659000	721211270	459420000	475224929	470909000	442029170

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	301653.86	541166.38	16390.95	671137.55	28054.30	14988.33	29705.36	27086.10
Software	0	0	0	0	0	0	0	0
SDGs	392150.01	353519.25	581878.89	425326.63	428829.99	547934.20	411914.35	395707.50
Support for faculty development	648555.79	141934.30	143420.85	176447.40	324628.31	128446.29	318837.55	318548.89

R & D	45248.08	189023.84	204886.93	243506.77	300581.77	193095.89	316857.19	293876.76
Industrial Training, Industry expert,	331819.24	439325.91	2048869.33	533033.43	617194.57	1996347.74	595691.52	607814.35
Miscellaneous Expenses*	0	0	0	0	0	0	0	0
Total	1719426.98	1664969.68	2995446.95	2049451.78	1699288.94	2880812.45	1673005.97	1643033.60