

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 : 2
Application No : 11712	Date of Submission : 30-03-2026

PART A- Profile of the Institute

A1.Name of the Institute : Dr. Vitthalrao Vikhe Patil College of Engineering, Ahmednagar	
Year of Establishment : 1983	Location of the Institute: Ahmednagar
A2. Institute Address :PO : MIDC, Vilad Ghat, Ahmednagar, Maharashtra - 414111	
City:Ahmednagar	State:Maharashtra
Pin Code:414111	Website:www.enggnagar.com
Email:principal@enggnagar.com	Phone No(with STD Code):0241-2779496
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : Savitribai Phule Pune University Pune	City: Ahmednagar
State : Maharashtra	Pin Code: 411007
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: **9**
- No. of PG programs: **5**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2024	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	1983	--	Civil Engineering
3	Engineering & Technology	UG	Computer Engineering	2022	--	Computer Engineering
4	Engineering & Technology	PG	Computer Engineering	2025	--	Computer Engineering
5	Engineering & Technology	UG	Computer Science and Design	2021	--	Computer Science and Design
6	Engineering & Technology	PG	Data Science	2024	--	Computer Engineering
7	Engineering & Technology	PG	Design Engineering	2012	--	Mechanical Engineering
8	Engineering & Technology	UG	Electrical Engineering	1999	--	Electrical Engineering
9	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2007	--	Electronics and Telecommunication Engineering
10	Engineering & Technology	UG	Electronics Engineering (VLSI Design and Technology)	2023	--	Electronics Engineering (VLSI Design and Technology)
11	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
12	Engineering & Technology	UG	Mechanical Engineering	1986	--	Mechanical Engineering
13	Engineering & Technology	PG	Structural Engineering	2008	--	Civil Engineering

14	Engineering & Technology	PG	VLSI & Embedded Systems	2025	--	Electronics and Telecommunication Engineering
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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
Electrical Engineering	No	Electrical Engineering	UG
Information Technology	No	Information Technology	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Electronics and Telecommunication Engineering	No	Electronics and Telecommunication 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 ARRO' DETAILS
1	Electrical Engineering	UG	1999 / --	60	Yes	2022	60	2022	F.No. Western/1-109736856668/2022

Sanctioned Intake for Last Five Years for the Electrical Engineering

Academic Year	Sanctioned Intake
2025-26	60
2024-25	60
2023-24	60
2022-23	30
2021-22	60
2020-21	60

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 :	Ajit Rambhau Laware
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	60	30	60	60	60

N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	57	58	30	22	17	29
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	14	12	5	39	58	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	4	3	8	2	4	3	2
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	64	74	78	37	65	78	70

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	60	4	106.67
2024-25 (CAYm1)	60	60	3	105.00
2023-24 (CAYm2)	60	58	8	110.00

Average [(ER1 + ER2 + ER3) / 3] = 107.22≅ 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).	99.00	118.00	99.00
B=No. of students who graduated from the program in the stipulated course duration	22.00	40.00	46.00
Success Rate (SR)= (B/A) * 100	22.22	33.90	46.46

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 34.19

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)	7.79	7.17	6.55
Y=Total no. of successful students	55.00	49.00	14.00
Z=Total no. of students appeared in the examination	60.00	66.00	32.00
API [X*(Y/Z)]	7.14	5.32	2.87

Average API[(AP1+AP2+AP3)/3] : 5.11

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)	6.76	7.26	6.31
Y=Total no. of successful students	46.00	16.00	28.00

Z=Total no. of students appeared in the examination	61.00	19.00	64.00
API [X * (Y/Z)]	5.10	6.11	2.76

Average API [(AP1 + AP2 + AP3)/3] : 4.66

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)	7.40	7.05	6.88
Y=Total no. of successful students	11.00	24.00	53.00
Z=Total no. of students appeared in the examination	16.00	28.00	72.00
API [X*(Y/Z)]:	5.09	6.04	5.06

Average API [(AP1 + AP2 + AP3)/3] : 5.40

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	99.00	118.00	99.00
X=No. of students placed	20.00	24.00	48.00
Y=No. of students admitted to higher studies	2.00	2.00	2.00
Z= No. of students taking up entrepreneurship	1.00	0.00	2.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	23.23	22.03	52.53

Average Placement Index = (P_1 + P_2 + P_3)/3: 32.60 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments**(Data to be filled in for the Department and Allied Departments)****C1. Faculty details of Department and Allied Departments**

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Current Association (Y/N)
1	Ajit Rambhau Laware	XXXXXXXX39L	Ph.D	Savitribai Phule Pune University, Pune	Control System Engineering	16/07/2001	24.8	Lecturer	Professor	01/09/2021	Regular	Yes
2	Satish Ashokrao Markad	XXXXXXXX40P	Ph.D	Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar	Power System Engineering	12/07/2002	23.8	Lecturer	Associate Professor	01/10/2008	Regular	Yes
3	Samsher Kadir Sheikh	XXXXXXXX10A	Ph.D	Mandsaur University, Mandsaur, Madhya Pradesh	Power System Engineering	24/07/2001	24.7	Lecturer	Associate Professor	01/09/2010	Regular	Yes
4	Madhavi Harish Nerkar	XXXXXXXX15C	Ph.D	University of Engineering and Management, Jaipur, Rajasthan	Control System Engineering	15/07/2008	17.8	Lecturer	Assistant Professor		Regular	Yes

5	Kalpna Deepak Vidhate	XXXXXXXX55J	Ph.D	Oriental University, Indore	Power System Engineering	09/08/2008	17.7	Lecturer	Assistant Professor		Regular	Yes
6	Ganesh Kailas Shirsat	XXXXXXXX50N	Ph.D	University of Engineering and Managaement, Jaipur, Rajasthan	Power System Engineering	07/09/2010	15.6	Lecturer	Assistant Professor		Regular	Yes
7	Sneha Kuldipak Awaze	XXXXXXXX50A	M.Tech	Sant Gadgebaba Amravati University, Amravati	Power System Engineering	22/08/2011	14.6	Assistant Professor	Assistant Professor		Regular	Yes
8	Ganesh Babasaheb Murade	XXXXXXXX64P	M.Tech	Rajiv Gandhi Proudhyogiki Vishwa Vidyalaya, Bhopal	Power System Engineering	14/01/2013	13.2	Assistant Professor	Assistant Professor		Regular	Yes
9	Sanjay Bhaskarrao Joshi	XXXXXXXX88D	M.Tech	Swami Ramanand Teerth Marathwada University, Nanded	Control System Engineering	30/06/1998	27.8	Lecturer	Assistant Professor		Regular	Yes
10	Sunil Shivajirao Mandhare	XXXXXXXX58N	B.E.	University of Pune, Pune	Instrumentation and Control	24/03/1998	27.11	Lecturer	Assistant Professor		Regular	Yes
11	Rahul Arun Darandale	XXXXXXXX92M	M.E.	University of Pune, Pune	Control System Engineering	15/09/2008	17.6	Lecturer	Assistant Professor		Regular	Yes
12	Shubham Dnyandeo Salunke	XXXXXXXX35E	M.E.	Savitribai Phule Pune University, Pune	Power System Engineering	15/01/2025	1.1	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	66	66	33
UG1.C	66	33	66
UG1.D	33	66	66
UG1: Electrical Engineering	165	165	165
DS=Total no. of students in all UG and PG programs in the Department	165	165	165

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
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= 165	S2= 165	S3= 165
DF=Total no. of faculty members in the Department	11	10	10
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= 11	F2= 10	F3= 10
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 18.33	SFR2= 20.63	SFR3= 20.63
Average SFR for 3 years	SFR= 19.86		

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)	5	6	8.00	23.12
2024-25(CAYm1)	2	8	8.00	16.25
2023-24(CAYm2)	2	8	8.00	16.25

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	1.00	1.00	2.00	2.00	6.00	8.00
2024-25	1.00	1.00	2.00	1.00	6.00	8.00
2023-24	1.00	1.00	2.00	1.00	6.00	8.00
Average	RF1=1.00	AF1=1.00	RF2=2.00	AF2=1.33	RF2=6.00	AF2=8.00

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

(CAYm2)

(CAYm3)

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	17	9
2	No. of peer reviewed conference papers published	3	2	5

3	No. of books/book chapters published	0	1	0
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C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

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

C8. Consultancy Work

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

(CAYm1)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years:**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	Measurement and Power Electronics	20	Energy Meters, SCR Characteristics with internal power supply, 1 phase	16 hrs.	Mr.S.M.Vikhe	Lab. Asstt.	ITI (Electronic
2	Computer Lab, Fundamental & Advanced	20	Desktop Computers (i5), Microcontroller Trainer Kits (e.g., 8051, PIC, AVR, ARM)	16 hrs.	Mr.S.M.Vikhe	Lab. Asstt.	ITI (Electronic
3	Switch Gear Protection, Control System & PLC	20	Fault Simulation Panel, Protection Relay Trainer Kit, PLC Trainer Kits, Flow temperature level control trainer	12 Hrs	Mr.S.M.Vikhe	Lab. Asstt.	ITI (Electronic
4	Power System, Analog & Digital Electronics	20	Transmission Line Model (Short / Medium / Long Line), DC Network Analyzer, Analog Electronic Trainer	14 Hrs	Mr.A.V.Musma	Lab. Asstt.	ITI (Electrician
5	High Voltage and Material Science	20	Sphere Gap Arrangement (Voltage Measurement), Dielectric Strength Test Apparatus (Oil/Insulation)	16 Hrs	Mr.A.V.Musma	Lab. Asstt.	ITI (Electrician
6	Electrical Machines I	20	3-Phase Induction Motor, DC Motor 5hp, Rectifier 3phase AC to DC, Motor Alternator Set, DC Motor, DC	6 Hrs	Mr.A.V.Musma	Lab. Asstt.	ITI (Electrician

7	Electrical Machines II	20	Synchronous Motor 5hp, Slip Ring Induction Motor, Motor Alternator 5 hp, VFD Control Motor 4hp	6 Hrs	Mr.A.V.Musma	Lab. Asstt.	ITI (Electrician)
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D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Measurement and Power Electronics	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety (1 Extinguisher for 2 lab) • Fire extinguishers placed one for Two laboratories • Emergency exit routes clearly marked
2	Computer Lab, Fundamental & Advanced Micro Controller	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety (1 Extinguisher for 2 lab) • Fire extinguishers placed one for Two laboratories • Emergency exit routes clearly marked
3	Switch Gear Protection, Control System & PLC	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety (1 Extinguisher for 2 lab) • Fire extinguishers placed one for Two laboratories • Emergency exit routes clearly marked
4	Power System, Analog & Digital Electronics	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety (1 Extinguisher for 2 lab) • Fire extinguishers placed one for Two laboratories • Emergency exit routes clearly marked
5	High Voltage and Material Science	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety • Fire extinguishers placed in all laboratories • Emergency exit routes clearly marked Personal Protective Equipment (PPE) • Mandatory use of shoes, insulated gloves, and apron • Safety helmet for workshop activities • Maintain minimum safety distance from machines Workplace Safety Features • Safety Rubber Mat • Clear isolation switches for high-voltage setups
6	Electrical Machines I	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety • Fire extinguishers placed in all laboratories • Emergency exit routes clearly marked Personal Protective Equipment (PPE) • Mandatory use of shoes, insulated gloves, and apron • Safety helmet for workshop activities • Maintain minimum safety distance from machines Workplace Safety Features • Safety Rubber Mat • Clear isolation switches for high-voltage setups
7	Electrical Machines II	Display Boards • Dos and Don'ts for students • First Aid instructions for electric shock Electrical Protection • All circuits protected by MCBs/ELCBs • Proper equipment earthing provided • Lightning arrester installed Periodic Maintenance • Regular inspection and servicing of laboratory equipment Fire & Emergency Safety • Fire extinguishers placed in all laboratories • Emergency exit routes clearly marked Personal Protective Equipment (PPE) • Mandatory use of shoes, insulated gloves, and apron • Safety helmet for workshop activities • Maintain minimum safety distance from machines Workplace Safety Features • Safety Rubber Mat • Clear isolation switches for high-voltage setups

D3. Project Laboratory/Research Laboratory

Sr. No.	Name of Laboratory / Centre	Major Facilities / Equipment Available	Utilization / Activities
1	Electrical Project Laboratory	Work benches, regulated power supply, electrical tools, testing instruments, oscilloscope	Students use the project laboratory for design and development of mini projects and final year BE projects such as smart energy meter, solar-powered systems, EV charging system, and IoT-based electrical monitoring.
		Converter/inverter trainer kits, oscilloscope, measuring instruments	Power electronics experimentation, motor control projects and research work
		Solar PV panel, inverter modules, charge controller, battery testing setup	Renewable energy projects, solar power applications and energy-related experimentation
		PLC trainer kits, industrial sensors and control modules	Industrial automation projects, process control applications and skill development
		EV charging setup, battery testing arrangement, electrical drive system	Electric vehicle projects, EV charging systems and battery monitoring applications
		MATLAB/Simulink software, computer systems with internet facility	System simulation, design analysis, project modeling and research work
2	Innovation Cell / Project Development Centre	Arduino kits, workspace and internet facility	Students are encouraged to develop product-based ideas, improve prototypes, and participate in innovation and entrepreneurship activities through mentoring and technical guidance.

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 $((NS1 \times 0.8) + (NS2 \times 0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1 \times 0.8) + (NS2 \times 0.2)) / RF$
2023-24(CAYm2)	480	24	19	22	82
2024-25(CAYm1)	600	30	21	23	71
2025-26(CAY)	600	30	24	25	81

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	5007000	6985903	18250000	21734113	6113000	10549593	4793000	9041736
Library	2980000	1745809	2560000	1531670	2105000	1487956	1750000	1014944

Laboratory equipment	48285000	8018878	13976000	7607637	13342000	12521226	7041000	8631181
Teaching and non-teaching staff salary	253852000	160484763	185880000	140764587	130104000	133327337	107926000	106584873
Outreach Programs	60000	115126	60000	60245	60000	116250	0	13220
R&D	1726000	1692883	1635000	599301	1060000	352392	4650000	707273
Training, Placement and Industry	3645000	3132462	2635000	641398	1716000	3493291	585000	1343895
SDGs	0	0	495318	495318	95200	95200	0	0
Entrepreneurship	0	0	0	0	0	0	0	0
Others, specify	41981000	19231461	38303000	48766691	27460000	28749012	24301000	28576311
Total	357536000	201407285	263794318	222200960	182055200	190692257	151046000	155913433

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	1218706	743484	1060444	688207	1262630	824093	599712	730073
Software	3376783	19707	310960	58298	401338	737511	231831	137631
SDGs	0	0	48603	48603	11873	11873	0	0
Support for faculty development	0	0	0	0	0	0	0	0
R & D	164271	161119	160436	58807	132200	43949	549166	83529
Industrial Training, Industry expert,	161119	298130	258561	62938	214014	435671	69089	158714
Miscellaneous Expenses*	3995511	1830340	3758508	4785265	3424717	3585478	2869951	3374866
Total	8916390	3052780	5597512	5702118	5446772	5638575	4319749	4484813