

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: 11847	Date of Submission: 21-05-2026

PART A- Profile of the Institute

A1.Name of the Institute: AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER	
Year of Establishment : 1983	Location of the Institute: At Amrutnagar Post Sangamner Sk Tal Sangamner Dist Ahilyanagar Maharashtra 422608
A2. Institute Address: AT - AMRUTNAGAR, POST- SANGAMNER (SK), TAL: SANGAMNER, DIST-AHMEDNAGAR, MAHARASHTRA, 422608	
City:SANGAMNER	State:Maharashtra
Pin Code:422605	Website:www.avcoe.org
Email:PRINCIPAL@AVCOE.ORG	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE	City: Pune
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: 4

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	2023	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Automation & Robotics	2021	--	Automation and Robotics
3	Engineering & Technology	UG	Civil Engineering	1983	--	Civil Engineering
4	Engineering & Technology	PG	Civil Engineering (Structural Engineering)	2007	--	Civil Engineering
5	Engineering & Technology	UG	Computer Engineering	1986	--	Computer Engineering
6	Engineering & Technology	PG	Computer Engineering	2010	--	Computer Engineering
7	Engineering & Technology	UG	Electrical Engineering	2012	--	Electrical Engineering
8	Engineering & Technology	UG	Electronics and Computer Engineering	2021	--	Electronics and Computer Engineering
9	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2000	--	Electronics and Telecommunication Engineering
10	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	1991	--	Mechanical Engineering
12	Engineering & Technology	PG	Mechanical Engineering (Design)	2007	--	Mechanical Engineering
13	Management	PG	Master of Business Administration	2010	--	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
Electrical Engineering	No	Electrical Engineering	UG
Computer Engineering	Yes	Computer Engineering	UG
Mechanical Engineering	Yes	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	ACCREDITATION STATUS	FROM	1
1	Electrical Engineering	UG	2012 / --	60	Yes	2024	120	2024	1-44641157702, F.No. Western/1-44641157702/2025/EOA Date of Approval: 05-Apr-2025	Granted accreditation for 3 years for the period (specify period)	2023	2

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 T
Sanctioned Intake for Last Five Years for the Electrical Engineering											
Academic Year				Sanctioned Intake							
2025-26				120							
2024-25				120							
2023-24				60							
2022-23				60							
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 :	Dr.Sunil Somnath Kadlag
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	60	60	60	60	60
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	121	120	62	61	60	58	60
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	24	8	9	9	11	13
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	8	16	8	8	8	10	4
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	129	160	78	78	77	79	77

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	120	121	8	107.50
2024-25 (CAYm1)	120	120	16	113.33
2023-24 (CAYm2)	60	54	8	103.33

Average [(ER1 + ER2 + ER3) / 3] = 108.05≅ 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).	77.00	79.00	77.00
B=No. of students who graduated from the program in the stipulated course duration	54.00	61.00	73.00
Success Rate (SR)= (B/A) * 100	70.13	77.22	94.81

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 80.72

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)	6.80	6.73	6.63
Y=Total no. of successful students	132.00	63.00	61.00
Z=Total no. of students appeared in the examination	136.00	62.00	69.00
API [X*(Y/Z)]	6.60	6.84	5.86

Average API[(AP1+AP2+AP3)/3] : 6.43

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)	7.41	7.40	6.77

Y=Total no. of successful students	54.00	56.00	62.00
Z=Total no. of students appeared in the examination	71.00	70.00	83.00
API [X * (Y/Z)]	5.64	5.92	5.06

Average API [(AP1 + AP2 + AP3)/3] : 5.54

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.84	7.94	7.80
Y=Total no. of successful students	48.00	57.00	68.00
Z=Total no. of students appeared in the examination	56.00	62.00	78.00
API [X*(Y/Z)]:	6.72	7.30	6.80

Average API [(AP1 + AP2 + AP3)/3] : 6.94

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	77.00	79.00	77.00
X=No. of students placed	44.00	59.00	34.00
Y=No. of students admitted to higher studies	1.00	1.00	1.00
Z= No. of students taking up entrepreneurship	1.00	1.00	1.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	59.74	77.22	46.75

Average Placement Index = (P_1 + P_2 + P_3)/3: 61.24 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.Sunil Somnath Kadlag	XXXXXXXX43Q	Ph.D	Suresh Gyan Vihar University, Jaipur	Electric Vehicle and Control Systems	12/07/1999	26.10	Lecturer	Professor	28/03/2026	Regular	Yes		Yes
2	Dr.Kishor Vinayak Bhadane	XXXXXXXX81H	Ph.D	RTM Nagpur Univ.,Nagpur	Electrical Power System and Renewable Energy	21/08/2020	5.8	Associate Professor	Associate Professor	21/08/2020	Regular	Yes		No
3	Dr.Jyoti Ramdas Rokde	XXXXXXXX79B	Ph.D	DR. B.A.M.U. Sambhajinagar	Electrical Power System	12/08/2008	17.9	Lecturer	Assistant Professor		Regular	Yes		No
4	Mr.Tejas Ramesh Bhanegaonkar	XXXXXXXX48L	M.E.	Dr.B.A.M.U., Sambhajinagar	Electrical Machines and Drives	07/07/2010	15.10	Lecturer	Assistant Professor		Regular	Yes		No
5	Mr.Anil Kumar Pathak	XXXXXXXX35B	M.Tech	RGPV , Bhopal	Power System	21/07/2011	14.10	Lecturer	Assistant Professor		Regular	Yes		No
6	Mr.Vijay Kumar	XXXXXXXX92G	M.Tech	R.T.U. , Kota	Power System Engineering	17/06/2013	12.11	Lecturer	Assistant Professor		Regular	Yes		No
7	Dr.Arvind Subhash Pande	XXXXXXXX29E	Ph.D	University of Engineering and Management, Jaipur	Electrical Vehicle	01/07/2014	11.10	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mrs.Monal Sachin Gadakh (Pawar)	XXXXXXXX41F	M.E.	S.P.P.U., Pune	Electrical Power System	03/02/2014	12.3	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr.Akshay Ashok Pathare	XXXXXXX77F	Ph.D	JECRC University, Jaipur	Electrical Power System	08/12/2014	11.5	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mrs.Yogita Uday Kakad (More)	XXXXXXXX07C	M.E.	S.P.P.U.,Pune	Power System	22/08/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Ms. Manisha Dilip Landge	XXXXXXXX56E	M.Tech	G.H.Raisoni University, Amravati	Electrical Power System	09/08/2023	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr. Nilesh Valmik Hadpe	XXXXXXXX80Q	M.E.	S.P.P.U. , Pune	Power System	06/09/2023	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr.Dilip Dadasaheb Gaikwad	XXXXXXXX03P	M.E.	K.B.C.N.M.U., Jalgaon	Electrical Power System	03/06/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No

14	Mr.Kishor Chandrakant Muley	XXXXXXXX81F	M.E.	RGPV , Bhopal	Electrical Power System	02/06/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Dr. Subash Chandra Sahoo	XXXXXXXX64K	Ph.D	NIT, Silchar	Electrical Powe System	02/06/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr. Shekhar Gangadhar Pawar	XXXXXXXX60N	M.Tech	BHABHA University, Bhopal	Electrical Power System	10/07/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mr. Sandeep Vasant Kolhe	XXXXXXXX57D	M.E.	S.P.P.U. , Pune	Power System	01/08/2025	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr.Vilas Digambar Shinde	XXXXXXXX76P	M.E.	S.P.P.U., Pune	Power System	01/08/2025	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mr.Atul Arunrao Joshi	XXXXXXXX85D	M.E.	DR.B.A.M.U ,Sambhajinagar	Control System	16/12/2015	8.9	Assistant Professor	Assistant Professor		Regular	No	16/09/2024	No
20	Mr.Satish Jaywant Aher	XXXXXXXX00B	M.Tech	Shivaji Univ., Kolhapur	Energy System	24/09/2012	12.10	Assistant Professor	Assistant Professor		Regular	No	01/08/2025	No
21	Mr.Chetan Wamanrao Jadhao	XXXXXXXX16F	M.Tech	BATU, Lonere	Power System	05/07/2024	0.7	Assistant Professor	Assistant Professor		Regular	No	27/02/2025	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	132	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Electrical Engineering	264	198	198
DS=Total no. of students in all UG and PG programs in the Department	264	198	198
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= 264	S2= 198	S3= 198
DF=Total no. of faculty members in the Department	18	13	13
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= 18	F2= 13	F3= 13
FF=The faculty members in F who have a 100% teaching load in the first-year courses	5	4	4
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 20.31	SFR2= 22.00	SFR3= 22.00
Average SFR for 3 years	SFR= 21.44		

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)	4	14	13.00	18.46
2024-25(CAYm1)	2	11	9.00	17.78
2023-24(CAYm2)	2	11	9.00	17.78

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	0.00	3.00	2.00	9.00	16.00
2024-25	1.00	0.00	2.00	2.00	7.00	11.00
2023-24	1.00	0.00	2.00	2.00	7.00	11.00
Average	RF1=1.00	AF1=0.00	RF2=2.33	AF2=2.00	RF2=7.67	AF2=12.67

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	Er. Sanjay Chaudhari	General Manager,	Electronic Study Centre, Nashik	Industrial Approach in Electrical & Electronics	50.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er. Sanjay Chaudhari	General Manager,	Electronic Study Centre, Nashik	Industrial Approach in Electrical & Electronics	50.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er. Sanjay Chaudhari	General Manager,	Electronic Study Centre, Nashik	Industrial Approach in Electrical & Electronics	50.00

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	22	30	23
2	No. of peer reviewed conference papers published	4	4	1
3	No. of books/book chapters published	1	0	1

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Prof. Vijay Kumar	Prof. S. J. Aher	Electrical Engineering	Design and Performance Evaluation of Superconducting Electric Drives for Traction Type Elevators (Project No. 20TEC000402)	ASPIRE Research Mentorship Scheme, Savitribai Phule Pune University (SPPU)	1 Year	1.93
						Amount received (Rs.):1.93

(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.K.V.Bhadane		Electrical Engineering	E.S.D.P. on Electrical Technician	MSME, Mumbai	1 Year	0.32
Dr.K.V.Bhadane		Electrical Engineering	STTP conduction at IDEMI Mumbai	MSME, Mumbai	1 Year	0.10
						Amount received (Rs.):0.42

(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.S.S.Kadlag	Dr.K.V.Bhadane	Electrical Engineering	Smart AI Based Condition Monitoring	AICTE, ISTE	1 Year	0.93
						Amount received (Rs.):0.93

Total Amount (Lacs) Received for the Past 3 Years: 3.28

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. S. S. Kadlag		Electrical Engineering	Automation system and Electrical Work at Hindu Hrudaysamrat Balasaheb Thackeray Maharashtra Samruddhi Mahamarg	Green Valley Services	2 Years	1.00
						Amount received (Rs.):1.00

(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. S. S. Kadlag		Electrical Engineering	Automation system and Electrical Work at Hindu Hrudaysamrat Balasaheb Thackeray Maharashtra Samruddhi Mahamarg	M/s R.M. Katore & Company and Sanket Rose Nursery (JV)	2 Years	0.89
Dr. S. S. Kadlag		Electrical Engineering	Refund in Excess Bill due to wrong tariff	MSEDCL	1 Year	48.81
Dr. S. S. Kadlag		Electrical Engineering	Revision of Electricity Tariff	MSEDCL	1 Year	24.00
						Amount received (Rs.):73.70

(CAYm3)

Total amount (Lacs) received for the past 3 years: 74.70

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. S. S. Kadlag & Prof. A. K. Pathak	SIEP E-Bike	1 Year	2.76	2.76	Winner of SIEP E-Bike Challenge
			Amount received (Rs.): 2.76		

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years : 2.76

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	Basic Electrical engineering lab	23	NA	1	Mr.V.S. Thorat	Technical Assistant	B.E. (Pursuing)
2	Software lab	20	Dell Desktop Computer (Intel® Core™ i5 Processor), 6 kVA UPS (True Online Double-Conversion UPS with AVR feature)	0.465	Mr.R.A. Jondhale	Technical Assistant	B.E. (Electrical Engir
3	Embedded system lab	20	Computer-Dell Desktop Dell Make Intel Core i5 Processor, Invertor (Legrand Numeric) True Online Double-Conversion UPS with AVR feature	0.435	Mrs. P.S. Aher	Technical Assistant	B.C.A.
4	Electrical Machine Lab I and II	20	DC Power Supply Rectifier, 5 HP Shunt-Wound DC Motor Coupled with 3 kVA Automatic AVR Shunt-Wound DC Motor	0.46	Mr. Y. S. Inamdar	Technical Assistant	B.E. (Electrical Engir
5	Electric measurement and instrumentation lab	20	Single-Phase Phantom Load for Calibration of Ammeter, Voltmeter, and Wattmeter	0.57	Mr. Y. S. Inamdar	Technical Assistant	B.E. (Electrical Engir
6	High voltage Engg. Lab	20	High Voltage Tester (30 kV, 30 mA, High Voltage India Make), Oil Testing Kit (60 kV, High Voltage India Make), Transformer Oil Tester	0.515	Mrs. P.S. Aher	Technical Assistant	B.C.A.
7	Power Electronics lab	20	Experimental Kit of 3 Phase Full Rectifier, Harmonics Analyser of 3phase system	0.599	Mr. R.R. Shinde	Lab Assistant	ITI
8	Power System and Electrical Drives Lab	20	Measurement of ABCD Parameters of Medium Transmission Line, Study of the Effect of VAR Compensation Using Capacitor Bank	0.515	Mr. R.R. Shinde	Lab Assistant	ITI
9	PLC and SCADA lab	20	Switchgear Test Kit with ACB, Study and Testing of Contactor, MCCB Testing Equipment, Measurement Board	0.345	Mr. R. A. Jondhale	Technical Assistant	B.E. (Electrical Engir

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Basic Electrical Engineering Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Rubber gloves for staff/students during connections. • OLTC (500 KVA) at powerhouse for constant voltage. • Lightning arresters on institute premises. • Proper earthing. • Low-voltage AC/DC power supplies with overload protection. • Insulated workbenches and rubber mats.
2	Software Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Proper earthing. • UPS for all workstations. • CCTV surveillance for security and monitoring. • Proper cable management to prevent tripping hazards. • Regular antivirus updates and firewall protection. • Proper ventilation and cooling for servers/workstations.

3	Embedded System Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Proper earthing. • UPS for all workstations. • Over-current protection for all trainer kits and development boards. • Proper labelling of IC pins and voltage levels on trainer kits. • Proper ventilation and cooling for workstations.
4	Electrical Machine Lab I & II	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Rubber gloves for staff/students during connections. • OLTC (500 KVA) at powerhouse for constant voltage. • Lightning arresters on institute premises. • Proper earthing. • Emergency stop buttons near each machine. • Insulated floor mats near motor control panels.
5	Electrical Measurement and Instrumentation Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Rubber gloves for staff/students during connections. • OLTC (500 KVA) at powerhouse for constant voltage. • Lightning arresters on institute premises. • Proper earthing. • Fused test leads and current-limited supplies. • Proper grounding of all measuring instruments. • Safe handling guidelines for precision instruments.
6	High Voltage Engineering Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Rubber gloves for staff/students during connections. • OLTC (500 KVA) at powerhouse for constant voltage. • Lightning arresters on institute premises. • Proper earthing. • Restricted access with authorization only. • Interlocked safety gates and high-voltage warning signs. • Discharge rods and grounding sticks. • Dead-man switch for high voltage source. • Emergency shutdown procedure displayed.
7	Power Electronics Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Rubber gloves for staff/students during connections. • OLTC (500 KVA) at powerhouse for constant voltage. • Lightning arresters on institute premises. • Proper earthing. • Isolated oscilloscope probes for floating measurements. • Proper ventilation for heat dissipation.
8	Power system and Electrical Drives lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Rubber gloves for staff/students during connections. • OLTC (500 KVA) at powerhouse for constant voltage. • Lightning arresters on institute premises. • Proper earthing. • Emergency stop on drive control panels. • Overload and short-circuit protection for drives. • Insulated mats near drive panels. • Safety interlocks for rotating machinery.
9	PLC and SCADA Lab	• Fire Extinguisher (Type ABC for electrical fire, Type BC-CO2 for general fire) with regular filling. • MCB and ELCB protection. • Safety instructions and stickers displayed. • Proper earthing. • 24V DC logic level safety (no direct mains on trainer). • Emergency stop simulation in PLC programs. • Proper grounding for communication cables.

D3. Project Laboratory/Research Laboratory

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8)+(NS2*0.2))/RF
2023-24(CAYm2)	840	42	15	49	52
2024-25(CAYm1)	960	48	19	56	55
2025-26(CAY)	1020	51	19	60	53

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	38500000	58624483	35000000	44024355	29800000	23836341	18000000	23836933
Library	3700000	2712589	3630000	2975874	3300000	2295325	3000000	2410812
Laboratory equipment	34000000	36709245	29000000	23436219	27500000	35612324.8	25000000	22641782.5
Teaching and non-teaching staff salary	340000000	327818625	320000000	295326769	280000000	265459527	210000000	244724658
Outreach Programs	3300000	1588155	3025000	1272155	2700000	1125993	1500000	1590488
R&D	3751000	4521987	3410000	3518260	3100000	1685961	3000000	1396796
Training, Placement and Industry linkage	4235000	5145564	3850000	3012336	3500000	2103012	3000000	729181
SDGs	3327500	3825179	3025000	11548383	3000000	4087365	2500000	6822787
Entrepreneurship	200000	240797	150000	64377	50000	6500	50000	7000
Others, specify	21265000	17807743	21050000	16447126	19000000	21173162	15000000	15831650.69
Total	452278500	458994367	422140000	401625854	371950000	357385510.8	281050000	319992088.19

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	3100000	3168719	3100000	640040	3100000	3242127	140000	131667
Software	1100000	1020700	800000	768200	800000	751498	800000	751498
SDGs	600000	306014	420000	970064	410000	236948	400000	401340
Support for faculty development	40000	6000	5000	35000	5000	3000	5000	3000
R & D	20000	17713	5000	10610	5000	3000	5000	3000
Industrial Training, Industry expert, Internship	250000	208300	100000	206306	80000	77900	65000	50000
Miscellaneous Expenses*	120000	78000	69000	69906	68000	69957	35000	10333
Total	5230000	4805446	4499000	2700126	4468000	4384430	1450000	1350838