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: 11579	**Date of Submission**: 27-02-2026

PART A- Profile of the Institute

A1.Name of the Institute: TSSM BHIVARABAI SAWANT COLLEGE OF ENGINEERING AND RESEARCH	
Year of Establishment : 2010	Location of the Institute: SNO1212 NARHE TAL HAVELI PUNE
A2. Institute Address:S.NO.12/1/2,NARHE,TAL-HAVELI,PUNE	
City:Pune	State:Maharashtra
Pin Code:411041	Website:www.tssm.edu.in
Email:principal@tssm.edu.in	Phone No(with STD Code):091-
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: Non-Autonomous (Affiliated)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **5**
- 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	Civil Engineering	2010	--	Civil Engineering
2	Engineering & Technology	UG	Computer Engineering	2010	--	Computer Engineering
3	Engineering & Technology	PG	Computer Engineering	2012	--	Computer Engineering
4	Engineering & Technology	PG	Construction Management	2013	--	Civil Engineering
5	Engineering & Technology	PG	Design Engineering	2014	--	Mechanical Engineering
6	Engineering & Technology	UG	Electrical Engineering	2010	--	Electrical Engineering

7	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2010	--	Electronics and Telecommunication Engineering
8	Engineering & Technology	UG	Mechanical Engineering	2010	--	Mechanical Engineering
9	Engineering & Technology	PG	Power Systems	2013	--	Electrical Engineering
10	Engineering & Technology	PG	Signal Processing	2012	--	Electronics and Telecommunication Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Electrical Engineering	No	Electrical Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/ DECREASE INTAKE (if any)	YEAR OF INCREASE/ DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/ COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electrical Engineering	UG	2010 / --	60	No	NA	60	2010	2010	Applying first time	--	--	0	4

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 :	SANJAY GANESH KANADE
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	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	60	49	46	52	17	24	11
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	22	22	18	52	48	60
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	5	7	7	5	5	5	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	65	78	75	75	74	77	71

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	5	108.33
2024-25 (CAYm1)	60	49	7	93.33
2023-24 (CAYm2)	60	46	7	88.33

Average [(ER1 + ER2 + ER3) / 3] = 96.66≡ 20.00

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).	112.00	108.00	120.00
B=No. of students who graduated from the program in the stipulated course duration	32.00	49.00	66.00
Success Rate (SR)= (B/A) * 100	28.57	45.37	55.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 42.98

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)	8.10	7.43	7.09
Y=Total no. of successful students	49.00	39.00	44.00
Z=Total no. of students appeared in the examination	56.00	53.00	57.00
API [X*(Y/Z)]	7.09	5.47	5.47

Average API[(AP1+AP2+AP3)/3] : 6.01

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	6.59	7.37	6.32
Y=Total no. of successful students	49.00	42.00	48.00
Z=Total no. of students appeared in the examination	61.00	62.00	73.00
API [X * (Y/Z)]	5.29	4.99	4.16

Average API [(AP1 + AP2 + AP3)/3] : 4.81

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)	7.16	7.15	7.13
Y=Total no. of successful students	41.00	38.00	55.00
Z=Total no. of students appeared in the examination	42.00	48.00	70.00
API [X*(Y/Z)]:	6.99	5.66	5.60

Average API [(AP1 + AP2 + AP3)/3] : 6.08

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	112.00	108.00	120.00
X=No. of students placed	36.00	42.00	53.00
Y=No. of students admitted to higher studies	2.00	2.00	2.00
Z= No. of students taking up entrepreneurship	0.00	2.00	2.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	33.93	42.59	47.50

Average Placement Index = (P_1 + P_2 + P_3)/3: 41.34 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	SANJAY GANESH KANADE	XXXXXXX86F	Ph.D	Telecom & Management SudParis and Universite d'Evry Val d'Essonne, France	Computer	01/01/2013	13.1	Assistant Professor	Professor	21/10/2020	Regular	Yes		Yes
2	HASARMANI TOTAPPA SHIVLINGAPPA	XXXXXXX78N	Ph.D	Bharati Vidyapeeth Deemed University, Pune	Electrical Engineering	12/04/2023	2.9	Assistant Professor	Associate Professor	01/08/2025	Regular	Yes		No
3	Ashish Pundlik Kinge	XXXXXXX80L	M.E.	Amravati University	Electrical Power System	01/07/2011	14.7	Assistant Professor	Assistant Professor		Regular	Yes		No

4	Unde Mahadev Ganpat	XXXXXXX77N	Ph.D	Savitribai Phule Pune University	Electrical Engineering	09/12/2024	1.1	Professor	Professor	09/12/2024	Regular	Yes		No
5	Kudalkar Amruta Santosh	XXXXXXX79E	M.E.	Savitribai Phule Pune University	Electrical Power Systems	08/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
6	ARTI SURESH JAYBHAY	XXXXXXX73E	M.E.	Savitribai Phule Pune University	Electrical Power Systems	16/01/2017	9	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Joshi Rewa Hrushikesh	XXXXXXX68M	M.Tech	Savitribai Phule Pune University	Instrumentation and Control Engineering	05/04/2023	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
8	EVA GUPTA	XXXXXXX47J	M.Tech	Univercity of Petroleum and Energy Studies, Dehradun	Smart grid	07/08/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
9	ASHLESHA BHIMRAO MALI	XXXXXXX10K	M.Tech	Shivaji University, Kolhapur	Electrical Power System	01/01/2024	2.1	Assistant Professor	Assistant Professor		Regular	Yes		No
10	GORE NILIMA ARVIND	XXXXXXX65J	M.E.	Savitribai Phule Pune University	Electrical Power Systems	13/07/2015	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
11	GAURAVKUMAR TEMBHURNIKAR	XXXXXXX38M	M.E.	North Maharashtra University, Jalgaon	Electrical Power System	01/07/2024	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
12	VAISHALI AMIT SHENDKAR	XXXXXXX98J	M.E.	Savitribai Phule Pune University	Electrical Power Systems	01/08/2023	2.6	Assistant Professor	Assistant Professor		Regular	Yes		No
13	KAVITA BORHADE	XXXXXXX73H	M.E.	Savitribai Phule Pune University	Electrical Power Systems	03/07/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
14	KAPADE PRATIKSHA PRADIP	XXXXXXX23M	M.Tech	Sant Gadge Baba Amravati University, Amravati	Electrical Power System	18/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No

15	KESHAV FALKE	XXXXXXX29K	M.E.	Savitribai Phule Pune University	Electrical Power Systems	07/08/2023	1.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
16	SHUBHAM BHADRE	XXXXXXX12R	M.Tech	NIT Goa	Electrical Power System	17/02/2022	3.3	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
17	DIKSHA SHINDE	XXXXXXX94J	M.Tech	Rashtrasant Tukdoji Maharaj University, Nagpur	Electrical Power System	07/08/2023	1	Assistant Professor	Assistant Professor		Regular	No	10/08/2024	No

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

C2. Student-Faculty Ratio (SFR)

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

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Electrical Engineering	**198**	**198**	**198**
PG1.A	24	24	24

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG1.B	24	24	24
PG1: Power Systems	**48**	**48**	**48**
DS=Total no. of students in all UG and PG programs in the Department	246	246	246
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=** 246	**S2=** 246	**S3=** 246
DF=Total no. of faculty members in the Department	14	14	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=** 14	**F2=** 14	**F3=** 13
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 18.92**	**SFR2= 18.92**	**SFR3= 20.50**
Average SFR for 3 years	**SFR= 19.45**		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2025-26(CAY)	3	11	12.00	15.42
2024-25(CAYm1)	2	12	12.00	14.17
2023-24(CAYm2)	2	11	12.00	13.33

C4. Faculty Cadre Proportion

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

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	2.00	2.00	1.00	8.00	11.00
2024-25	1.00	1.00	2.00	0.00	8.00	13.00
2023-24	1.00	1.00	2.00	0.00	8.00	12.00
Average	RF1=1.00	AF1=1.33	RF2=2.00	AF2=0.33	RF2=8.00	AF2=12.00

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	NA	NA	NA	NA	0.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	NA	NA	NA	NA	0.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	NA	NA	NA	NA	0.00

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	15	12	10
2	No. of peer reviewed conference papers published	3	1	2
3	No. of books/book chapters published	0	0	0

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(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
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

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)

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
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(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
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

Total amount (Lacs) received for the past 3 years: 0.00

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
Ashish Pundlik Kinge	Design and Implementation of AI Based Smart Home Energy Management System	1 Year	16000.00	15920.00	ME Student Grant
Vaishali Amit Shendkar	Design of Automatic Smart Medication Dispenser	1 Year	4500.00	4160.00	BE Student Participated in Dipex Project Competation
Kudalkar Amruta Avinash	Electric Vehicle Supply Equipment (Smart Socket)	1 Year	5000.00	4680.00	BE Student Participated in Dipex Project Competation
Ashalesha Bhimrao Mali	IoT Based Smart Agricultural System Guide	1 Year	5500.00	5140.00	BE Student Participated in Dipex Project Competation
Eva Gupta	Smart Car Parking System Transforming Urban Mobility	1 Year	5000.00	4500.00	BE Student Participated in Dipex Project Competation
Sanjay Ganesh Kanade	Smart Vehicle Monitoring System Using ESP32	1 Year	5500.00	5000.00	BE Student Participated in Dipex Project Competation
Gauravkumar Prabhakar Tembhurnikar	Assemble and Operation of Solar Dryer	1 Year	18500.00	18050.00	BE Student Participated in Dipex Project Competation
Ashish Pundlik Kinge	Empowering Remote Communities with Solar Power Flour Milling Solutions	1 Year	55000.00	54860.00	BE Student Participated in Dipex Project Competation
			Amount received (Rs.): 115000.00		

(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
Ashish Pundlik Kinge	A Real Time Rollover Safety System for Heavy Duty Vehicle	1Year	13000.00	12820.00	M.E student graduated
Ashish Pundlik Kinge	Automatic Power factor Detector and Correction using AT328	1Year	7000.00	6770.00	M.E student graduated
Ashish Pundlik Kinge	Implementation of Half Bridge Resonant Converter for Induction Heating	1Year	42000.00	41450.00	M.E student graduated
			Amount received (Rs.): 62000.00		

(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
Ashish Pundlik Kinge	ON-OFF Control of Dual Three Phase Induction Motor on Priority Base by Using Five-Leg Converter	1Year	40000.00	30750.00	M.E student graduated
			Amount received (Rs.): 40000.00		

Total amount (Lacs) received for the past 3 years : 217000.00

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

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	20	Expt. Kit for: Superposition Theorem, RLC with terminal & Accessories, KCL & KVL, Thevenin's	Sem 1 - 18Hr,	Ms. T. B. Jagtap	Lab Assistant	B.E.(Electronics)
2	Electrical Measurement & Network Lab	20	3 phase Inductor Load bank, Pressure Transducer with compressor, Level Measurement	Sem I-12Hr, Se	Mrs. A. A. Takale	Lab Assistant	B.E.(Electrical)
3	PG-I Lab	20	Infocus Projector IN 112l	Sem I - 6Hr Se	Mrs. R. K. Dubal	Lab Assistant	B.E.(IT)
4	Computer Lab	20	PSIM Software (Academic) PSIM Basic 5 User Network License, IN220i Infocus Projector	Sem I- 18Hr Se	Mrs. R. K. Dubal	Lab Assistant	B.E.(IT)
5	Power Electronics & Drives Lab	20	Single Phase Converter Fed Separately Excited DC Motor, Speed Control Characteristics (Fully	Sem I- 18Hr Se	Ms. T. B. Jagtap	Lab Assistant	B.E.(Electronics)
6	Electrical Machines Lab	20	DC Shunt Motor with Mechanical Loading, 3-Phase Induction Motor, Slip Ring Induction Motor,	Sem-I-6Hr Sen	Mrs. A. A. Takale	Lab Assistant	B.E.(Electrical)

7	Control System & PLC Lab	20	Syncro Transmitter Receiver kit Synchro as Error Detector kit PID Process Controller & Interface	Sem I- 12Hr S	Mrs. R. K. Dubal	Lab Assistant	B.E.(IT)
8	Power System & Switchgear Lab	20	Transmission line simulation model VAR compensation using transmission line	Sem I- 12Hr Se	Mrs. A.A. Takale	Lab Assistant	B.E.(Electrical)

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	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board.
2	Electrical Measurement & Network Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 8) Do not exceed the rated range of meters and measuring instruments.
3	PG-I Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board.
4	Computer Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board.
5	Power Electronics & Drives Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 9) All equipment's must me operated within maintained ratings.

6	Electrical Machines Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 9) All equipment's must me operated within maintained ratings. 8)Insulation mats of capacity 33Kv are placed at each experiment setup to ensure human safety from electrical shock. 9)Keep hands, clothes, wires, and tools away from rotating parts such as shaft, belt, pulley, coupling, and motor fan during operation.
7	Control System & PLC Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 8)Verify PLC input/output wiring before giving supply. 9) Do not modify PLC program or relay wiring without permission.
8	Project Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 9) All Project works must me done under faculty guidance.
9	Power System & Switchgear Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 8)Do not change relay settings or switchgear connections without permission. 9)CT secondary terminals must not be kept open during operation.
10	Electrical Vehicle Lab	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 8) Battery charging/discharging and EV trainer operation should be carried out only under faculty supervision. 9) Insulated tools, proper earthing, MCB protection and emergency switch must be used while handling EV batteries, motors and controllers.

11	Lab as Museum	1)Safety instructions are display on notice board. 2)All Laboratory Equipment's and Control Panels are earth at two locations. 3)The fire extinguishers are installed near labs. Staff and students are trained to use them in case of fire. 4)Electrical equipment's are protected by using Switch gear like MCB (Miniature Circuit Breaker). 5)Electrical fitting checking is carried by technician periodically. 6) Separate earthing for lab has been provided. 6)All laboratories are airy and illuminated at a desired luxlevel. 7) A first-aid box is available in each laboratory. 8)Does and Don't are Displayed on notice Board. 8) Display models, old machines and cut-sections of equipment should not be operated or touched without permission.

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)	420	21	10	9	47
2024-25(CAYm1)	420	21	10	12	50
2025-26(CAY)	420	21	11	11	52

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	0	0	0	0	0	0	0	0
Library	950000	926799	750000	749792	1700000	1664775	2700000	2697620
Laboratory equipment	6600000	6553963	5900000	5809399	4003000	3954120	4300000	4213911

Teaching and non-teaching staff salary	136278500	135533009	116078000	112700013	102650000	101706617	90085000	87879707
Outreach Programs	3000000	2992242	2650000	2643619	4035500	3992850	3500000	3395355
R&D	3850000	3787915	3450000	3373178	3050000	2966971	1800000	1764656
Training, Placement and Industry linkage	2550000	2499816	2200500	2192107	1900000	1849773	2550000	2508473
SDGs	11050000	10871414	9600000	9468111	3600000	3522441	6600000	6473447
Entrepreneurship	2650000	2631810	2100000	2071134	800000	798410	600000	563105
Others, specify	44245500	43616702.65	39890000	38785885.34	35668500	34970079.54	37608500	36249671
Total	**211174000**	**209413670.65**	**182618500**	**177793238.34**	**157407000**	**155426036.54**	**149743500**	**145745945**

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	942857	936280	842857	829914	571857	564874	614286	601987
Software	0	0	0	0	0	0	0	0
SDGs	1578571	1553059	1371429	1352587	514286	503206	942857	924778
Support for faculty development	225850	224050	169167	168292	240500	239585	172833	170585
R & D	550000	541131	492857	481883	435714	423853	257143	252094
Industrial Training, Industry expert, Internship	135000	133792	137500	135500	138500	138458	125500	123500
Miscellaneous Expenses*	446293	445594	371904	369744	311786	306423	287381	271409
Total	**3878571**	**3833906**	**3385714**	**3337920**	**2212643**	**2176399**	**2400000**	**2344353**