

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechanical Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 2
Application No : 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 APPROVAL DETAILS
1	Mechanical Engineering	UG	1986 / --	60	Yes	2021	60	2021	F.No.Western/1-9323279119/2021/E dt.02-07-2021

Sanctioned Intake for Last Five Years for the Design Engineering

Academic Year	Sanctioned Intake
2025-26	60
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	120

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Susheel Madhavrao Magar
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	120	120

N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	60	55	60	15	20	52
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	10	15	11	29	58	27
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	6	6	8	5	2	0	6
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	66	76	78	76	46	78	85

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	6	110.00
2024-25 (CAYm1)	60	60	6	110.00
2023-24 (CAYm2)	60	55	8	105.00

Average $[(ER1 + ER2 + ER3) / 3] = 108.33 \approx 100$

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).	89.00	178.00	147.00
B=No. of students who graduated from the program in the stipulated course duration	17.00	31.00	67.00
Success Rate (SR)= (B/A) * 100	19.10	17.42	45.58

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 27.37

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)
Mean of CGPA or mean percentage of all successful students(X)	7.92	6.86	3.47
Y=Total no. of successful students	63.00	43.00	34.00
Z=Total no. of students appeared in the examination	66.00	63.00	65.00
API $[X*(Y/Z)]$	7.56	4.68	1.82

Average API $[(AP1+AP2+AP3)/3]$: 4.69

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)	6.49	6.67	6.33
Y=Total no. of successful students	38.00	42.00	23.00
Z=Total no. of students appeared in the examination	58.00	45.00	46.00

API [X * (Y/Z)]	4.25	6.23	3.16
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Average API [(AP1 + AP2 + AP3)/3] : 4.55

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)	7.35	7.37	7.24
Y=Total no. of successful students	40.00	18.00	34.00
Z=Total no. of students appeared in the examination	42.00	23.00	73.00
API [X*(Y/Z)]:	7.00	5.77	3.37

Average API [(AP1 + AP2 + AP3)/3] : 5.38

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	89.00	178.00	147.00
X=No. of students placed	17.00	29.00	62.00
Y=No. of students admitted to higher studies	0.00	0.00	1.00
Z= No. of students taking up entrepreneurship	0.00	2.00	1.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	19.10	17.42	43.54

Average Placement Index = (P_1 + P_2 + P_3)/3: 26.69 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)	Cur Ass (Y/N)
1	Susheel Madhavrao Magar	XXXXXXX60P	Ph.D	Mandsaur University, M. P.	Mechanical Engineering	01/10/2001	24.5	Lecturer	Associate Professor	01/10/2013	Regular	Yes
2	Rajendra Eknath Kalhapure	XXXXXXX62P	Ph.D	Mandsaur University, M.P.	Mechanical Engineering	27/02/2002	24	Lecturer	Associate Professor	01/10/2012	Regular	Yes
3	Prashant Annasaheb Narwade	XXXXXXX78P	Ph.D	Dr. Babasaheb Ambedkar Marathwada University	Mechanical Engineering	19/10/2001	24.5	Lecturer	Assistant Professor		Regular	Yes
4	Kanif Machindre Markad	XXXXXXX68C	Ph.D	Sardar Vallabhbhai National Institute of Technology, Surat	Mechanical Engineering	28/01/2010	16.1	Lecturer	Associate Professor	01/11/2022	Regular	Yes
5	Ravindra Rambhau Navthar	XXXXXXX36B	Ph.D	North Maharashtra University, Jalgaon	Mechanical Engineering	08/10/2001	24.5	Lecturer	Professor	01/02/2016	Regular	Yes

6	Bharat Trimbak Tagad	XXXXXXXX69R	M.E.	Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhaji Nagar	Heat Power Engineering	23/09/2008	17.5	Lecturer	Assistant Professor		Regular	Yes
7	Dattatray Bhaskar Thange	XXXXXXXX40A	M.E.	Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar	Heat Power Engineering	07/01/2009	17.2	Lecturer	Assistant Professor		Regular	Yes
8	Amit Dnyandeo Kachare	XXXXXXXX83L	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	16/10/2008	17.5	Lecturer	Assistant Professor		Regular	Yes
9	Vivek Popat Patekar	XXXXXXXX76C	M.E.	Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar	CAD/CAM Engineering	01/02/2010	16.1	Lecturer	Assistant Professor		Regular	Yes
10	Dattatray Karbhari Nannaware	XXXXXXXX46F	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	17/03/2010	16	Lecturer	Assistant Professor		Regular	Yes
11	Mandar Maruti Bidwe	XXXXXXXX16F	M.Tech	Visvesvaraya Technological University	Product Design & Manufacturing	26/12/2012	13.2	Assistant Professor	Assistant Professor		Regular	Yes
12	Anil Vasudev Suryavanshi	XXXXXXXX94G	M.E.	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	Mechanical-Machine design	18/07/2013	12.8	Lecturer	Assistant Professor		Regular	Yes
13	Supriya Ravindra Tambe	XXXXXXXX99R	M.E.	Savitribai Phule Pune University	Design Engineering	23/09/2013	12.5	Assistant Professor	Assistant Professor		Regular	Yes
14	Kaveri Somnath Kadam	XXXXXXXX28G	M.E.	Savitribai Phule Pune University	Design Engineering	24/12/2013	12.2	Assistant Professor	Assistant Professor		Regular	Yes
15	Yogesh Sanjay Pathare	XXXXXXXX40D	Ph.D	Oriental University, M.P.	Mechanical Engineering	28/08/2014	11.6	Assistant Professor	Assistant Professor		Regular	Yes
16	Sandip Kishor Kadu	XXXXXXXX83L	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	07/04/2015	10.11	Assistant Professor	Assistant Professor		Regular	Yes
17	Amrut Sahebrao Aher	XXXXXXXX99R	Ph.D	Vivekananda Global University, Jaipur.	Mechanical Engineering	08/02/2017	9.1	Assistant Professor	Assistant Professor		Regular	Yes
18	Praveen Gowardhan Kohak	XXXXXXXX77J	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	16/02/2015	11.1	Assistant Professor	Assistant Professor		Regular	Yes
19	Rahul Ashok Kandake	XXXXXXXX89L	M.E.	Shivaji University, Kolhapur	Mechanical-Production Engineering	29/07/2015	10.7	Assistant Professor	Assistant Professor		Regular	Yes
20	Sachin Khanderao Kardile	XXXXXXXX11F	M.E.	Savitribai Phule Pune University, Pune	Heat Power Engineering	07/07/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes

21	Chandana Rameshchandra Shah	XXXXXXXX08R	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	16/08/2007	18.7	Lecturer	Assistant Professor		Regular	Yes
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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	132
UG1: Mechanical Engineering	198	198	264
PG1.A	12	12	12
PG1.B	12	12	12
PG1: Design Engineering	24	24	24
DS=Total no. of students in all UG and PG programs in the Department	222	222	288
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= 222	S2= 222	S3= 288
DF=Total no. of faculty members in the Department	21	20	20
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= 21	F2= 20	F3= 20
FF=The faculty members in F who have a 100% teaching load in the first-year courses	3	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 12.33	SFR2= 12.33	SFR3= 16.00
Average SFR for 3 years	SFR= 13.55		

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)	7	14	11.00	28.64
2024-25(CAYm1)	2	18	11.00	20.91
2023-24(CAYm2)	2	18	14.00	16.43

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:}$
- RF2= No. of Associate Professors required = $2/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$
- RF3= No. of Assistant Professors required = $6/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$
- 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	3.00	7.00	17.00
2024-25	1.00	1.00	2.00	1.00	7.00	18.00
2023-24	1.00	1.00	3.00	1.00	9.00	18.00
Average	RF1=1.00	AF1=1.00	RF2=2.33	AF2=1.67	RF2=7.67	AF2=17.67

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	N.A.	N.A.	N.A.	N.A.	0.00

(CAYm2)

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

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	N.A.	N.A.	N.A.	N.A.	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	11	12	5
2	No. of peer reviewed conference papers published	10	7	8
3	No. of books/book chapters published	2	2	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
Nil	Nil	Nil	Nil	Nil	Nil	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
Nil	Nil	Nil	Nil	Nil	Nil	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
Nil	Nil	Nil	Nil	Nil	Nil	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
Nil	Nil	Nil	Nil	Nil	Nil	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
Nil	Nil	Nil	Nil	Nil	Nil	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
Nil	Nil	Nil	Nil	Nil	Nil	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
Nil	Nil	Nil	0.00	0.00	Nil
			Amount received (Rs.): 0.00		

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

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

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

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	CAD/CAM	1	Plotter	8 Hrs	S.B. Padale	Lab. Asstt.	B.Sc.(Physics)
2	Dynamics of Machinery	15	Torsional Damper	8 Hrs	S.B. Padale	Lab. Asstt.	B.Sc.(Physics)
3	Heat Transfer	15	Forced Convection	8 Hrs	S.B. Padale	Lab. Asstt.	B.Sc.(Physics)
4	Theory of Machines	22	Epicyclic Gear Train	6 Hrs	S.R. Shelke	Lab. Asstt.	ITI (Fitter) NC
5	P G Research	24	FFT Analyzer	12 Hrs.	S.R. Shelke	Lab. Asstt.	ITI (Fitter) NC
6	Metallurgy	22	Ultrasonic Testing Machine	6 Hrs	S.R. Shelke	Lab. Asstt.	ITI (Fitter) NC
7	Refrigeration and Air Conditioning	15	Vapour Absorption Refrigeration Test Rig	8 Hrs	G.M. Dale	Lab. Asstt.	ITI (Diesel Me
8	I.C. Engines	22	VCR Engine Test Rig	6 Hrs	G.M. Dale	Lab. Asstt.	ITI (Diesel Me
9	Steam	15	Mini Steam Power Plant (Boiler)	8 Hrs	G.M. Dale	Lab. Asstt.	ITI (Diesel Me
10	Metrology and Quality Control	15	Coordinate Measuring Machine	8 Hrs	S.R. Shelke	Lab. Asstt.	ITI (Fitter) NC
11	Fluid Mechanics & Machinery	22	Dead Weight Pressure Gauge Tester, Francis Turbine	6 Hrs	G.M. Dale	Lab. Asstt.	ITI (Diesel Me
12	Mechatronics	15	Universal Process Control Trainer	8 Hrs	S.B. Padale	Lab. Asstt.	B.Sc.(Physics)
13	Drawing Hall	1	3D Models	8 Hrs.	R. B. Wagh	Lab. Asstt.	ITI (Draftsman
14	Metal Turning Shop	1	Gedree wailer precision Center Lathe, Centre Lathe Machine Model	6 Hrs	B.A. Gagare	Instructor	ITI – Turner
15	Machine Shop	5	Praga Universal milling machine	6 Hrs.	B.A. Gagare	Instructor	ITI – Turner
16	Welding Shop	5	Welding Transformer	6 Hrs.	D.L. Borude	Instructor	ITI – Sheet Me

17	Sheet Metal Shop	1	Sheet rolling machine	6 Hrs.	D.L. Borude	Instructor	ITI – Sheet Me
18	Casting & Black Smithy Shop	5	Lag vice 6", Swage block 450x450mm	6 Hrs.	B.L. Mandlik	Instructor	ITI – Moulder
19	Plastic Moulding Shop	5	Plastic Moulding Machine	6 Hrs.	B.L. Mandlik	Instructor	ITI – Moulder
20	Fitting section	1	Vernier height gauge, Bench Drilling machine	8 Hrs.	A.M. Jagtap	Instructor	ITI-Fitter
21	Carpentry section	1	Wood Turning Lathe, Heavy Planner, Circular Saw Machine	8 Hrs.	R. B. Shelar	Instructor	ITI – Carpenter

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	CAD/CAM	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher
2	Dynamics of Machinery	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
3	Heat Transfer	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
4	Theory of Machines	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
5	P G Research	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
6	Metallurgy	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
7	Refrigeration and Air Conditioning	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
8	I.C. Engines	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
9	Steam	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
10	Research Lab. 1	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine

11	Metrology and Quality Control	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
12	Fluid Mechanics & Machinery	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
13	Mechatronics	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
14	Research Lab. 2	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
15	Drawing Hall	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment 3.Electrical circuits protected by MCBs
16	Project Lab.	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester
17	EV Lab.	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6.Fire Extinguisher 7.Wear Shoes 8.Safety distance of 1 m from the machine
18	Metal Turning Shop	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester
19	Machine Shop	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester
20	Welding Shop	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester
21	Sheet Metal Shop	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester

22	Casting & Black Smithy Shop	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester
23	Plastic Moulding Shop	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet. 14. Wear apron 15.Lightening Arrester
24	Fitting section	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet 14. Wear apron 15.Lightening Arrester
25	Carpentry section	1.Display Board on Do's and Don'ts 2.Display Board on First Aid Treatment for Electric Shock 3.Electrical circuits protected by MCBs 4.Equipment Earthing 5.Periodical Maintenance of laboratory equipment 6. UPS of 6 KVA (with 12 V, 26 AH batteries) is provided for protection of computers 7.Fire Extinguisher 8.Wear Shoes 9.Safety distance of 1 m from the machine 10. Wear hand gloves 11.Safety yellow floor marking 12. Roof wind ventilation is provided in Workshop. 13. Wear helmet 14. Wear apron 15.Lightening Arrester

D3. Project Laboratory/Research Laboratory**Table 7.5.1 List of Project Laboratory/Research Laboratory/Centre of Excellence**

Sr. No.	Name of the Laboratory
1	Ph. D. Research Lab. 1
2	Project Lab.
3	EV Lab.

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)	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	1287366	785370	1197468	777133	1262630	824093	938680	1142723
Software	3567024	20817	351141	65830	401338	737511	362865	215423
SDGs	0	0	54884	54884	11873	11873	0	0
Support for faculty development	0	0	0	0	0	0	0	0
R & D	173525	170196	181166	66405	132200	43949	859564	130741
Industrial Training, Industry expert,	170196	314926	291971	71070	214014	435671	108139	248422
Miscellaneous Expenses*	4220610	1933458	4244158	5403586	3424717	3585478	4492098	5282399
Total	9418721	3224767	6320788	6438908	5446772	5638575	6761346	7019708