

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 : 12062	Date of Submission : 22-08-2026

PART A- Profile of the Institute

A1.Name of the Institute : SHRI SHIVAJI VIDYA PRASARAK SANSTHA'S LATE BAPUSAHEB SHIVAJIRAO DEORE COLLEGE OF ENGINEERING, DHULE	
Year of Establishment : 1983	Location of the Institute: Dhule
A2. Institute Address :DHULE MAHARASHTRA 424005	
City:Dhule	State:Maharashtra
Pin Code:424005	Website:www.ssvpsengg.ac.in
Email:PRINCI.SSVPS@GMAIL.COM	Phone No(with STD Code):02562-272713
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Dr. Babasaheb Ambedkar Technological University, L	City: Raigad
State : Maharashtra	Pin Code: 402103
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: 6
- No. of PG programs: 2

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	1983	--	Civil Engineering
2	Engineering & Technology	UG	Computer Engineering	1988	--	Computer Engineering
3	Engineering & Technology	UG	Electronics and Computer Engineering	2024	--	Electronics and Computer Engineering
4	Engineering & Technology	UG	Electronics and Telecommunication Engineering	1999	--	Electronics and Telecommunication Engineering
5	Engineering & Technology	UG	Electronics Engineering	1983	--	Electronics Engineering
6	Engineering & Technology	PG	Infrastructure Engineering & Management	2011	2023	Civil Engineering
7	Engineering & Technology	UG	Mechanical Engineering	1986	--	Mechanical Engineering
8	Management	PG	Master of Business Administration	2007	--	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
Mechanical Engineering	No	Mechanical Engineering	UG

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

No Record

PART-B: Program information**B1. Provide the Required Information for the Program Applied For:**

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS
1	Mechanical Engineering	UG	1986 / --	60	Yes	2025	120	2025	F.No. Western/1-44642671179/2025/EOA

Sanctioned Intake for Last Five Years for the Mechanical Engineering

Academic Year	Sanctioned Intake
2025-26	120
2024-25	60
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 :	Suryawanshi Sanjeev Damodar
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	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	120	60	53	60	31	29	19
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	7	10	10	23	41	41
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	9	4	5	6	0	4	4
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	129	71	68	76	54	74	64

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	120	120	9	107.50
2024-25 (CAYm1)	60	60	4	106.67
2023-24 (CAYm2)	60	53	5	96.67

Average [(ER1 + ER2 + ER3) / 3] = 103.61≅ 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
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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).	66.00	74.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	39.00	40.00	54.00
Success Rate (SR)=(B/A) * 100	59.09	54.05	81.82

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 64.99

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.01	6.95	6.64
Y=Total no. of successful students	52.00	42.00	57.00
Z=Total no. of students appeared in the examination	64.00	58.00	66.00
API [X*(Y/Z)]	5.70	5.03	5.73

Average API[(AP1+AP2+AP3)/3] : 5.49

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)	6.39	6.32	5.77
Y=Total no. of successful students	51.00	53.00	41.00
Z=Total no. of students appeared in the examination	52.00	67.00	51.00
API [X * (Y/Z)]	6.27	5.00	4.64

Average API [(AP1 + AP2 + AP3)/3] : 5.30

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	6.53	6.57	6.14
Y=Total no. of successful students	53.00	39.00	53.00
Z=Total no. of students appeared in the examination	53.00	41.00	57.00
API [X*(Y/Z)]:	6.53	6.25	5.71

Average API [(AP1 + AP2 + AP3)/3] : 6.16

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	66.00	74.00	66.00
X=No. of students placed	34.00	32.00	46.00
Y=No. of students admitted to higher studies	4.00	4.00	2.00
Z= No. of students taking up entrepreneurship	1.00	4.00	4.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	59.09	54.05	78.79

Average Placement Index = (P_1 + P_2 + P_3)/3: 63.98 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 Associate (Y/N)
1	Suryawanshi Sanjeev Damodar	XXXXXXXX96J	Ph.D	Shivaji University kolhapur	Mechanical Engineering	14/10/2014	11.10	Professor	Professor	14/10/2014	Regular	Yes

2	Desale Purushottam Shivdas	XXXXXXXX63C	Ph.D	SJJTU Rajasthan	Mechanical Engineering	01/07/2004	22.1	Lecturer	Professor	25/08/2020	Regular	Yes
3	Sonawane Deepak Chandrabhan	XXXXXXXX84F	Ph.D	SRTMU, Nanded	Mechanical Engineering	01/01/2008	18.7	Assistant Professor	Associate Professor	01/07/2019	Regular	Yes
4	Singh Shivrath Ramsamujh	XXXXXXXX12C	M.E.	Mumbai University	Production with IEM	19/07/1999	27.1	Lecturer	Assistant Professor		Regular	Yes
5	Patil Santosh Vikram	XXXXXXXX97F	M.E.	SPPU, Pune	Machine Design	20/07/2004	22	Lecturer	Assistant Professor		Regular	Yes
6	Mahale Dinesh Chaitram	XXXXXXXX60M	M.E.	NMU Jalgaon	Machine Design	20/01/2005	21.6	Lecturer	Assistant Professor		Regular	Yes
7	Deshmukh Nikhil Sunil	XXXXXXXX40E	M.Tech	VJTI, Mumbai	CAD/CAM & Automation	03/01/2011	15.7	Lecturer	Assistant Professor		Regular	Yes
8	Bagale Deepak Dasharath	XXXXXXXX97Q	M.E.	NMU, Jalgaon	Machine Design	11/07/2014	12.1	Assistant Professor	Assistant Professor		Regular	Yes
9	Jadhav Dhiraj Rajendra	XXXXXXXX75P	M.E.	NMU Jalgaon	CAD/CAM	17/07/2017	9	Assistant Professor	Assistant Professor		Regular	Yes
10	Chaudhari Abhijit Tukaram	XXXXXXXX90R	M.E.	NMU Jalgaon	Mechanical CAAD	01/12/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes
11	Shelake Gunwant Devidas	XXXXXXXX41C	M.E.	BAMU, Aurangabad	Manufacturing	11/11/2024	1.9	Assistant Professor	Assistant Professor		Regular	Yes
12	Wankhede Indrajit Natthu	XXXXXXXX11A	M.E.	KBC NMU Jalgaon	Mechanical Engineering	18/12/2024	1.7	Assistant Professor	Assistant Professor		Regular	Yes
13	Makhija Kailash Udhmdas	XXXXXXXX25B	M.E.	KBC NMU Jalgaon	Thermal Engineering	05/08/2025	1	Assistant Professor	Assistant Professor		Regular	Yes
14	Rajankar Satish Ramesh	XXXXXXXX26B	M.E.	SPPU, Pune	Design Engineering	07/07/2025	0.11	Assistant Professor	Assistant Professor		Regular	No
15	Sawarnkar Hemantkumar Jagadishprasad	XXXXXXXX35D	M.E.	KBCNMU Jalgaon	Mechanical Engineering	25/08/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes
16	Karanjkar Atul Vasant	XXXXXXXX64F	Ph.D	NIIT, Durgapur	Mechanical Engineering	16/12/2024	0.5	Professor	Professor		Regular	No
17	Deshmukh Harshal Panditrao	XXXXXXXX54N	M.E.	NMU Jalgaon	Machine Design	08/07/2013	11.10	Assistant Professor	Assistant Professor		Regular	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 yearStudent Faculty Ratio (**SFR**) = S/F

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

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

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

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

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Mechanical Engineering	198	198	198
DS=Total no. of students in all UG and PG programs in the Department	198	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= 198	S2= 198	S3= 198

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
DF=Total no. of faculty members in the Department	15	11	11
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= 15	F2= 11	F3= 11
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= 13.20	SFR2= 18.00	SFR3= 19.80
Average SFR for 3 years	SFR= 17.00		

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	12	9.00	24.44
2024-25(CAYm1)	4	8	9.00	20.00
2023-24(CAYm2)	3	8	9.00	17.22

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	2.00	2.00	1.00	7.00	12.00
2024-25	1.00	2.00	2.00	1.00	7.00	8.00
2023-24	1.00	2.00	2.00	1.00	7.00	8.00
Average	RF1=1.00	AF1=2.00	RF2=2.00	AF2=1.00	RF2=7.00	AF2=9.33

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	Dr.E.R.Deore	Retired Professors	SSVPS BSD COE Dhule	Engineering Graphics	120.00
2	Dr.E.R.Deore	Retired Professors	SSVPS BSD COE Dhule	Machine Drawing and CAD Lab	52.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.E.R.Deore	Retired Professors	SSVPS BSD COE Dhule	Engineering Graphics	120.00
2	Dr.E.R.Deore	Retired Professors	SSVPS BSD COE Dhule	Machine Drawing and CAD La	26.00

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	18	10	11
2	No. of peer reviewed conference papers published	4	10	9
3	No. of books/book chapters published	1	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
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Indrajit Natthu Wankhede	Mechanical Engineering	Development of Large Capacity Hemispherical Solar Dryer for Rural Ecosystem	La Foundation Dassault Systems	2 Years	8.26
						Amount received (Rs.):8.26

(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
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Mechanical Engineering	Design, development and analysis of a sustainable ventilation system for thermal comfort in buildings	La Foundation Dassault Systems	2 Years	4.00
						Amount received (Rs.):4.00

(CAYm3)**Total Amount (Lacs) Received for the Past 3 Years: 12.26****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
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Shri Ganesh Textiles and Infrastructure Dhule	Valuation of Plant and Machinery	SHRIGANESH TEXTILE AND INFRASTRUCTURE	Two Days	0.00
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	REISYS HYGIENEHARBOR PVT LTD Bengaluru- 560058.	Mechanical thermal system design for Coffee Dryer	REISYS HYGIENEHARBOR PVT LTD	Ten Days	0.46
						Amount received (Rs.):0.46

(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
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Neha Industries MIDC Awdhan Tal. Dhule	Valuation of Plant and Machinery	Neha Industries	Two Days	0.05
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Madhur Food Park Nimzari Tal. Shirpur Dist.Dhule Maharashtra.	Valuation of Plant and Machinery	Madhur Food Park	Two Days	0.05
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Shivpushpa Agro Products Dhule	Valuation of Plant and Machinery	Shivpushpa Agro Products	Two Days	0.05
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Zilha Parishad Dhule	Inspection of Three Wheeler Vehicle and Garbage Hopper Tipper	Zilla Parishad Dhule	Two day	0.02
						Amount received (Rs.):0.17

(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
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Gram Panchayat Karvand, Tal. Shirpur Dist. Dhule	Valuation of Plant and Machinery	Gramvistar Adhikari Karvand Tal. Shirpur Dist. Dhule.	Two Days	0.05
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Grampanchayat Ajande, Tal. Shirpur Dist. Dhule	Valuation of Plant and Machinery	Gramvistar Adhikari Ajande Tal. Shirpur Dist. Dhule	Two Days	0.05
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Mechanical Engineering	Building Ventilation Design	Dr Hitendra D Patil	One Year	0.21
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Mechanical Engineering	Energy Efficient Building	Parag Ahire Padmashri Builders	One Year	0.11
Prof. (Dr.) Sanjeev Damodar Suryawanshi	NA	Wadar Vasti Beed	False ceiling and ventilation system(Bubble sheet)	Kisan Vikas Kendra BEED	One week	0.00
						Amount received (Rs.):0.42

Total amount (Lacs) received for the past 3 years: 1.05

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
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Development of Large Capacity Hemispherical Solar Dryer for Rural Ecosystem	2 Years	0.10	0.10	The project developed a large-capacity hemispherical solar dryer for rural applications
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Hemispherical solar water heater	2 Years	0.13	0.13	Recognised three innovative Mechanical Engineering projects on an international professional platform
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Solar dryer cum disinfectant	2 Years	0.15	0.15	enhanced students' and faculty members' confidence in innovation, technical presentation, and R&D
Gunwant Devidasrao Shelake	CME Visit Self-heated tent	2 Years	0.08	0.08	Enhanced students' and faculty members' technical communication, innovation
Indrajit Natthu Wankhede	CME Visit Ice to water convertor and solar cloth dryer	2 Years	0.07	0.07	The activity increased awareness of sustainable engineering solutions and motivated participants towards further research
Dhiraj Rajendra Jadhav	MEGAATV	2 Years	0.75	0.75	Enhanced students' practical skills in ATV design, fabrication, testing, teamwork and problem-solving
Deepak Dashrath Bagale	MEGAATV	2 Years	0.50	0.50	The activity provided exposure to competitive engineering practices and motivated students and faculty towards innovation
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Ice-to-water converter cum pasteurizer	1 Year	0.04	0.04	The system promotes safe water utilisation, reduces wastage of stored ice, and demonstrates an innovative
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Tunnel Dryer Bamboo bending fixture for furniture tepoy	2 Years	0.02	0.02	Promoting sustainable utilization of bamboo as a furniture material.
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Self-heated tent, Solar cloth drying, solar dryer cum disinfectant, sustainable ventilation	1 Year	0.20	0.20	enhanced students' and faculty members' technical communication, innovation, and problem-solving skills
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Sustainable ventilation	1 Year	0.19	0.19	to improve indoor thermal comfort and reduce energy consumption.
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Self-heated tent, Solar dryer cum disinfectant, Sustainable ventilation	1 Year	0.26	0.26	Project demonstration skills while providing valuable exposure to practical applications
			Amount received (Rs.): 2.49		

(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
Abhijit Tukaram Chaudhari	Mission E Vehicle Club	1 Year	1.16	1.16	The Mission E-Vehicle Club provided students with hands-on exposure to electric vehicle design
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Self-Heated Tent	2 Year	0.13	0.13	Self-heated tent designed to provide thermal comfort in cold environmental conditions.
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Solar Dryer	2 Year	0.13	0.13	Solar dryer for efficient and hygienic drying of agricultural produce using renewable solar energy
Prof. (Dr.) Sanjeev Damodar Suryawanshi	ASM Annual GERAL Meeting	1 Year	0.04	0.04	The participation facilitated professional networking, knowledge exchange, and opportunities for academic and industry collaboration.
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Design development and analysis of a sustainable ventilation system	2 Years	0.75	0.75	The developed system reduced indoor temperature by approximately 6–7°C while promoting natural ventilation,
Deepak Dashrath Bagale	MEGA ATV Championship	2 Year	0.32	0.32	Participation in the MEGA ATV Competition in Goa provided students and faculty with hands-on exposure
Abhijit Tukaram Chaudhari	Performance analysis of heat exchanger used in solar	1 Year	0.03	0.03	Providing students with a platform to demonstrate their technical knowledge, creativity, and innovative ideas.
Dinesh Chaitram Mahale	Manufacturing of low-cost solar cooker	1 Day	0.04	0.04	A hands-on workshop on the manufacturing of low-cost solar cookers was conducted by Mr Jaun Bello and Ms Elena Castrillo from Spain.
			Amount received (Rs.): 2.60		

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
Nikhil Sunil Deshmukh	Waste segregation from various floors	1 Year	0.12	0.12	Ease of Waste Collection and Segregation in B Building
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Sustainable Ventilation at B 341	1 Year	0.12	0.12	Reduces the temperature of room B341 by up to 6 to 7 degrees centigrade
Prof. (Dr.) Sanjeev Damodar Suryawanshi	Solar cooker with heat storage	1 Year	0.04	0.04	The system promotes the use of renewable solar energy, reduces dependence on conventional cooking
Dinesh Chaitram Mahale	Nirmitee	1 year	0.19	0.19	The programme facilitated knowledge sharing, professional development, networking, and the exchange of innovative ideas
Nikhil Sunil Deshmukh	Arth 2K23	1 year	0.50	0.50	ARTH 2K23, organized under the Material Advantage Chapter (MAC), provided students with exposure to materials engineering.
Prof. (Dr.) Purushottom Shivdas Desale	Bicycle-operated positive displacement Pump	2 Year	0.06	0.06	Pump was developed and fabricated in the college workshop as a low-cost, pedal-powered water pumping solution
Prof. (Dr.) Sanjeev Damodar Suryawanshi Dhamesh Chavada et. al	Performance Analysis of Waste-to-Best Solar Water Heater	2 Year	0.05	0.05	The project evaluated the performance of a solar water heater developed using waste materials
Prof. (Dr.) Sanjeev Damodar Suryawanshi Dhamesh Yashashri Anil Patil et.al.	Design, Development and Evaluation of solar tunnel dryer for Seasoning and Straightening of Bamboo	2 Year	0.04	0.04	The project resulted in the development and evaluation of a solar tunnel dryer for efficient seasoning and straightening of bamboo.
Prof. (Dr.) Sanjeev Damodar Suryawanshi ,Dharmesh Chavada	ASM	1 year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi , Surabh Mahesh Dusane, Kiran A Jadhav	ASM	1 year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Kirti Pakhale	ASM	1 year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Juned Shaikh	ASM	1 Year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Prerana Rathod	ASM	1 Year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Prashik Wagh	ASM	1 Year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Kalpesh Patil	ASM	1 Year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Ninad Pravin Khandare, Lalit S Jadhav	ASM	1 Year	0.02	0.02	The students' projects received recognition through winning positions, enhancing their technical knowledge, innovation.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Shaikh Juned Mustak, Chaged Mrunal R, Bhamre Kalpesh M	Hemispherical Solar Water Heater	2 Year	0.04	0.04	The project resulted in the development of a hemispherical solar water heating system that utilizes solar energy for efficient water heating.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Rathod Prerna, Dhangar Ruchita, Deore Bhavesh	Solar Cooker with Heat Storage	1 Year	0.02	0.02	Enabling continued cooking during periods of reduced or intermittent sunlight and demonstrating an energy-efficient.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Kiran Arun Jadhav	Aviskar Competition	1 Year	0.04	0.04	The activity enhanced students' innovation, technical presentation, problem-solving, and research-oriented skills.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Yash Thakur et al	Efficient Solar Distillation, Solar Cooker, Hemispherical Tubular Solar Water Heater, ASM	1 Year	0.08	0.08	Promoting renewable energy utilisation, innovation, hands-on learning, and development of sustainable low-cost solutions.
Prof. (Dr.) Sanjeev Damodar Suryawanshi, Bhamre Kalpesh M	ASM Get-together at Tikhi	2 Year	0.10	0.10	The activity strengthened peer engagement, teamwork, communication, and a sense of professional community.

Deepak Dashrath Bagale, Dhiraj Rajendra Jadhav	MEGAATV	2 Year	0.45	0.45	The activity enhanced practical engineering skills, teamwork, problem-solving abilities, and project management.
			Amount received (Rs.): 2.01		

Total amount (Lacs) received for the past 3 years : 7.10

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	MATERIAL SCIENCE METALLURGY LAB	20	1. Rockwell cum Superficial hardness testing machine. 2. Vickers cum Rockwell Hardness testing machine	6hrs, Sem 1 S`	Mr. V.R.Gulve	Technical Assis	DME
2	HEAT TRANSFER LAB	20	1. Forced convection apparatus, 2.Pin Fin Apparatus, 3.Thermal conductivity of fluid apparatus	6hrs, Sem 1 T`	Mr. V.R.Gulve	Technical Assis	DME
3	THEORY OF MACHINE LAB	20	1. Synchromesh gearboxes for telco. 2. Epicyclic Gear Train & Holding Torque App. 3. Clutch & gears	6hrs, Sem 2 S`	Mr. S.S.Deore	Lab Assistant	ITI (fitter)
4	TURBO MACHINERY LAB	20	1. Centrifugal blower test rig 2. Screw compressor	6hrs, Sem 2 T`	Mr. J.S.Patil	Technical Assis	DME
5	CAD/CAM LAB	20	1. CATIA V5 release 7 full legal authorised package from IBM 2. Solidworks 2016 3. AutoCAD	6hrs, Sem 1 S`	Mr. V.R.Gulve	Technical Assis	DME
6	I.C.ENGINE LAB	20	1. Twin-cylinder diesel engine with Mechanical Dynamometer 2. Single-cylinder 4 stroke petrol engine with	6 hrs., Sem1 F	Mr. J.S.Patil	Technical Assis	DME
7	THERMAL LAB	20	1. Steam boiler test rig with surface condenser 2. Separating and heating calorimeter with hot water	6hrs, Sem 1 S`	Mr. J.S.Patil	Technical Assis	DME
8	WORKSHOP (Machine shop, Welding shop, Fitting)	20	1. Universal Milling machine (HMT) 2. Centre Lathe (HMT), all-g geared 3. Shaper machine 4	24hrs FY (MP-	Mr. V.K.Deore	Lab Assistant	ITI Machinist

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Material science and Metallurgy Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organised laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.
2	Heat Transfer Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.
3	Theory of Machine Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organised laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.
4	Turbo Machinery Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organised laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.

5	CAD/CAM Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organised laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.
6	I.C Engine Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.
7	Thermal Laboratory	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.
8	Workshop	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students are displayed. ❖ First aid box and fire extinguisher are kept in each laboratory. ❖ Well-trained technical support staff. ❖ Avoiding the use of damaged equipment and providing necessary equipment and components. ❖ Periodic servicing of the lab Equipment. ❖ Maintaining a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Appropriate storage areas.

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 $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2023-24(CAYm2)	360	18	5	38	64
2024-25(CAYm1)	570	28	10	39	56
2025-26(CAY)	720	36	15	48	60

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	8050500	7779747	3500000	3147327	6500000	6340190	2500000	2350206
Library	270000	269984	390000	388729	300000	284549	190000	184980
Laboratory equipment	6360000	4327302	11560000	9571415	6200000	5876573	2395000	1727166
Teaching and non-teaching staff salary	120227000	120226417	98910782	98910782	102919080	102919080	109161262	109161262
Outreach Programs	0	0	300000	295471	217487	217487	10000	6000
R&D	210000	151720	400000	276070	115000	36572	80000	7015
Training, Placement and Industry linkage	355000	129208	279000	54235	280000	40000	240000	49890
SDGs	115000	0	110000	0	110000	0	75000	0
Entrepreneurship	35000	28500	30000	26400	0	0	0	0

Others, specify	40000000	33520883	30000000	28919530.56	35000000	34118581.39	34000000	33385697
Total	175622500	166433761	145479782	141589959.56	151641567	149833032.39	148651262	146872216

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	350000	335672	100000	94970	300000	262763	250000	223987
Software	20000	0	20000	0	20000	0	800000	507400
SDGs	20000	0	20000	0	20000	0	10000	0
Support for faculty development	20000	19800	100000	67337	26000	25965	20000	13850
R & D	100000	64190	150000	142070	30000	24572	10000	1015
Industrial Training, Industry expert,	50000	49800	5000	3300	60000	59890	5000	0
Miscellaneous Expenses*	5000	0	15000	14345	40000	38288	30000	25738
Total	565000	469462	410000	322022	496000	411478	1125000	771990