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: 11367	**Date of Submission**: 12-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: A.P. Shah Institute of Technology	
Year of Establishment : 2014	Location of the Institute: Thane
A2. Institute Address:Survey No 12,13 Opposite Hypercity Mall, Kasarvadavali, Ghodbunder Road, Thane West 400615	
City:Thane	State:Maharashtra
Pin Code:400615	Website:www.apsit.edu.in
Email:principal@apsit.org.in	Phone No(with STD Code):022-25973737
A3. Name and Address of the Affiliating University (if any):	
Name of the University : University of Mumbai	City: Mumbai-City
State : Maharashtra	Pin Code: 400098
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: **0**

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	2014	--	Civil Engineering
2	Engineering & Technology	UG	Computer Engineering	2014	--	Computer Engineering
3	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
4	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2021	--	Computer Science and Engineering (Data Science)
5	Engineering & Technology	UG	Information Technology	2014	--	Information Technology
6	Engineering & Technology	UG	Mechanical Engineering	2014	--	Mechanical 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

Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Information Technology	Yes	Information Technology	UG
Computer Engineering	Yes	Computer 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	Mechanical Engineering	UG	2014 / --	60	Yes	2024	30	2024	F.No. Western/1-43664600097/2024/EOA	Granted accreditation for 3 years for the period (specify period)	2020	2026	2	4

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	**Sanctioned Intake**
2025-26	30
2024-25	30
2023-24	60
2022-23	60
2021-22	120
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 :	Dr. RAJESH. K. BEHRA
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.
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.

Item	CAY 2025-26	CAYm1 2024-25	CAYm2 2023-24	CAYm3 2022-23	CAYm4 (LYG) 2021-22	CAYm5 (LYGm1) 2020-21	CAYm6 (LYGm2) 2019-20
N=Sanctioned intake of the program (as per AICTE/Competent authority)	30	30	60	60	120	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	30	30-1 = 29	31-2-1 = 28	24-1 =23	17-2 = 15	33-1 =32	60-3+1 = 58
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	NA	04-1=3	24	10	28	85	74
N3= Separate division if any	NA	NA	NA	NA	NA	NA	NA
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	02	02	0	0	0	6	6
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	32	34	52	33	43	123	138

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.
Average [(ER1 + ER2 + ER3) / 3] = 85.557

Item	CAY	CAYm1	CAYm2
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)	30	30	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	30	29	28
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	02	02	00
Enrolment Ratio (ER)= (N1+N4)/N	106.67	103.33	46.67
Average ER= (ER1+ ER2+ ER3)/3	**85.557**		

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.
Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 55.68

Item	LYG	LYGm1	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).	132	132	138
B = No. of students who graduated from the program in the stipulated course duration	22	77	127
Success Rate (SR)= (B/A)*100	16.67	58.33	92.03
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	**55.68**		

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.
Average API[(AP1+AP2+AP3)/3] : 4.29

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)	5.62	5.6	5.19
Y= Total no. of successful students	24	28	13
Z = Total no. of students appeared in the examination	31	28	23
API = X* (Y/Z)	4.36	5.6	2.93
Average API = (API_1 + API_2 + API_3)/3	4.29		

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.
Average API [(AP1 + AP2 + AP3)/3] : 3.816

Academic Performance	CAYm1	CAYm2	CAYm3
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)	5.49	5.007	5.34
Y= Total no. of successful students	29	20	34
Z =Total no. of students appeared in the examination	59	23	41

API = X* (Y/Z)	2.678	4.35	4.431
Average API = (API_1 + API_2 + API_3)/3	**3.816**		

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
Average API [(AP1 + AP2 + AP3)/3] : 3.56

Academic Performance	CAYm1	CAYm2	CAYm3
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)	5.38	5.46	5.56
Y= Total no. of successful students	11	26	83
Z= Total no. of students appeared in the examination	21	36	118
API = X* (Y/Z)	2.82	3.94	3.91
Average API = (API_1 + API_2 + API_3)/3	**3.56**		

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.
Average Placement Index = (P_1 + P_2 + P_3)/3: 22
Placement Index Points: 6.6

Item	LYG	LYGm1	LYGm2
FS*=Total no. of final year students	132	132	147
X= No. of students placed	24	26	41
Y= No. of students admitted to higher studies	02	01	04
Z= No. of students taking up entrepreneurship	0	0	0
X + Y + Z =	26	27	45
Placement Index (P) = (((X + Y + Z)/FS) * 100)	19.69	20.45	25.86
Average placement index = (P_1 + P_2 + P_3)/3	**22**		

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. RAJESH. K. BEHRA	XXXXXXX23C	Ph.D	ICT Mumbai	Mechanical Engineering	02/01/2017	8.11	Assistant Professor	Assistant Professor		Regular	Yes		Yes
2	Mr. NIKHIL V KHATEKAR	XXXXXXX30N	M.Tech	Dr.BATU Lonere	MANUFACTURING ENGG	01/07/2015	10.5	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Ms. SAMANWITA BAGG	XXXXXXX04J	M.E.	UNIVERSITY OF MUMBAI	CAD/CAM/ROBOTICS	01/07/2016	9.5	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mr. MANISH G. GADLE	XXXXXXX81E	M.Tech	DR. BATU LONERE	THERMAL AND FLUIDS ENGINEERING	18/01/2016	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. SWAPNIL. M. KONDAWAR	XXXXXXX61P	M.Tech	RTMNU Nagpur	HEAT POWER	01/07/2015	10.5	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr. DILIP V. KUNTE	XXXXXXX59R	M.E.	UNIVERSITY OF MUMBAI	MANUFACTURING SYSTEM ENGINEERING	01/07/2015	10.5	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr. SWAPNIL S. JAYAWANT	XXXXXXX79B	M.E.	UNIVERSITY OF MUMBAI	CAD/CAM/ROBOTICS	04/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Dr. AMOL S. SHINDE	XXXXXXX98N	Ph.D	PACIFIC ACADEMY OF HIGHER EDUCATION AND RESEARCH UNIVERSITY	MECHANICAL ENGINEERING	28/07/2014	11.4	Lecturer	Assistant Professor		Regular	Yes		No
9	Dr. SANGRAM. B. SAVARGAVE	XXXXXXX61C	Ph.D	PACIFIC ACADEMY OF HIGHER EDUCATION AND RESEARCH UNIVERSITY	ELECTRICAL ENGINEERING	17/07/2014	11.4	Assistant Professor	Associate Professor	01/06/2018	Regular	Yes		No

10	Dr. UMAIS M. MOMIN	XXXXXXX92G	Ph.D	ICT MUMBAI	MECHANICAL ENGINEERING	05/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. NIKHIL DESAI	XXXXXXX38N	M.E.	UNIVERSITY OF MUMBAI	CAD/CAM/ROBOTICS	23/07/2018	7.4	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr. RAHUL K. SINGH	XXXXXXX88B	M.Tech	IIT PATNA	MECHATRONICS	26/06/2018	7.5	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Dr. SADANAND SHELGAONKAR	XXXXXXX38B	Ph.D	PACIFIC ACADEMY OF HIGHER EDUCATION AND RESEARCH UNIVERSITY	ELECTRONICS AND TELECOMMUNICATION	01/04/2014	11.8	Assistant Professor	Associate Professor	01/06/2019	Regular	Yes		No
14	Dr. SUSHRUT M. PATANKAR	XXXXXXX69J	Ph.D	PACIFIC ACADEMY OF HIGHER EDUCATION AND RESEARCH UNIVERSITY	MECHANICAL ENGINEERING	01/08/2019	6.4	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
15	Mr. VENKATESH S. RAO	XXXXXXX53L	M.E.	UNIVERSITY OF MUMBAI	MANUFACTURING SYSTEM ENGINEERING	12/10/2017	7.7	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	No
16	Mr.KEDAR P. YEOLE	XXXXXXX64B	M.Tech	NIT NAGPUR	HEAT POWER ENGINEERING	17/06/2019	6	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/06/2025	No
17	Mr. KIRAN A. CHAUDHARI	XXXXXXX13N	M.Tech	IIT BOMBAY	DESIGN	11/01/2022	2.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	29/06/2024	No
18	Dr. PANKAJ K JADHAV	XXXXXXX78R	Ph.D	ICT MUMBAI	MECHANICAL ENGINEERING	17/06/2019	6	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/06/2025	No
19	Mr. AMIT J. DALVI	XXXXXXX25Q	M.Tech	DR. BATU LONERE	MANUFACTURING AND PROCESSING ENGINEERING	01/07/2019	5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	29/06/2024	No
20	Mr. NANDKUMAR NAGOTHKAR	XXXXXXX27F	M.Tech	DR. BATU LONERE	MANUFACTURING ENGINEERING	12/01/2022	1.9	Assistant Professor	Assistant Professor		Contractual Fulltime	No	25/10/2023	No
21	Mr. BHUSHAN R. CHAVAN	XXXXXXX93L	M.E.	UNIVERSITY OF MUMBAI	MECHANICAL DESIGN ENGINEERING	01/12/2019	4.3	Assistant Professor	Assistant Professor		Contractual Fulltime	No	30/03/2024	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 Department0
Table No.C2.1: Student-faculty ratio.

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	32	60	60
UG1.C	60	60	120
UG1.D	60	120	123
UG1: Mechanical Engineering	**152**	**240**	**303**
DS=Total no. of students in all UG and PG programs in the Department	152	240	303
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=** 152	**S2=** 240	**S3=** 303
DF=Total no. of faculty members in the Department	14	17	19
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=** 17	**F3=** 19
Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 10.86**	**SFR2= 16.00**	**SFR3= 17.82**
Average SFR for 3 years	**SFR= 14.89**		

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 (Ph.D.)	Y (M.Tech./ME)	RF (Required Faculty)	FQI=2.5*[(10X + 4Y)/RF]
CAY	6	8	8.25	27.88
CAYm1	6	11	13.2	19.70
CAYm2	2	17	16.5	13.33
	Average Assessment			**20.31**

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	Professor		Associate Professor		Assistant Professor	
	Required Faculty (RF1)	Available Faculty (AF1)	Required Faculty (RF2)	Available Faculty (AF2)	Required Faculty (RF3)	Available Faculty (AF3)
CAY	0.917	0	1.833	2	5.5	12
CAYm1	1.467	0	2.933	2	8.8	15
CAYm2	1.833	0	3.667	2	11	17
Avg number	1.406	0	2.811	2	8.433	14.667

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.

Sr. No.	Name of the Person	Designation & Organization	Name of the Course	No. of. Hours handled
CAYm1				
01	Dr. Tausif Y. Shaikh	CTO, Inspecity	Advance thermal engineering	52
			Total no. of hours:	52
CAYm2				
01	Dr. Tausif Y. Shaikh	CTO, Inspecity	Computational Fluid Dynamics	51
			Total no. of hours:	51

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	2	2	1
2	No. of peer reviewed conference papers published	4	2	2
3	No. of books/book chapters published	4	1	1

C7. Sponsored Research Project

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

S.N.	PI NAME	CO- PI NAME If Any	Name of the Dept., where project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm3_22-23							
1	Yash Pawar	Nimish Pacchapurkar, Shreya Nair, Manas Kulkarni	Mechanical Engineering, Electronics and Telecommunication	Solar Charging Station	I- Hub Divyasampark, IIT Roorkee	5 Months	2.5
Amount Received (Rs.)							2.5
Total Amount (Lacs) Received for the Past 3 Years							2.5

Total Amount (Lacs) Received for the Past 3 Years: 2.5
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.

S.N.	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)
NIL							

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

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.

S.N.	Faculty Name	Project title/ Support for Activity	Name of the Dept., where project is sanctioned	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcome of the Project
CAYm1_24-25							
1	AMOL SHINDE	Autonomous EV	Modified Auto Club	1 Year	0.036	0.036	Participation in Competition
Amount Received (Rs.)					**0.036**	**0.036**	
CAYm2_23-24							
1	AMOL SHINDE	Autonomous EV	Modified Auto Club	1 Year	0.21299	0.21299	Participation in Competition
2	AMOL SHINDE	Laptop Purchase	Mechanical Engineering	3 Years	0.6	0.6	Student Projects and Learning
3	MS. SAMANWITA.T. ROY	Laptop Purchase	Mechanical Engineering	3 Years	0.6	0.6	Student Projects and Learning
4	SWAPNIL KONDAWAR	Laptop Purchase	Mechanical Engineering	3 Years	0.6	0.6	Student Projects and Learning
5	NIKHIL KHATEKAR	Laptop Purchase	Mechanical Engineering	3 Years	0.6	0.6	Student Projects and Learning
6	UMAIS M. MOMIN	Laptop Purchase	Mechanical Engineering	3 Years	0.65	0.65	Student Projects and Learning
7	RAHUL H. SINGH	Laptop Purchase	Mechanical Engineering	3 Years	0.65	0.65	Student Projects and Learning

8	MANISH G. GADLE	Laptop Purchase	Mechanical Engineering	3 Years	0.65	0.65	Student Projects and Learning
9	SANGRAM B. SAVARGAVE	Reimbursement Registration fees and Exam fees of NITTT Course	Mechanical Engineering	1 Month	0.01	0.01	Successfully cleared exam
Amount Received (Rs.)					**4.57299**	**4.57299**	
CAYm3_22-23							
1	AMOL SHINDE	E- Cyclothon (Electric Cycles)	Modified Auto Club	3 Days	1.60966	1.60966	Participated in Competitions and Winner of Competition with Cash Prize of Rs. 30000
2	AMOL SHINDE	Electric CAR & Electric Bike	Modified Auto Club	1 Year	0.60445	0.60445	Participated in Competition with Prototype
3	AMOL SHINDE	Conference Registration fees	Mechanical Engineering	2 DAYS	0.09634	0.09634	EV EXHIBITION AND CONFERENCE
4	NIKHIL KHATEKAR	FDP Registration Fees	Mechanical Engineering	5 DAYS	0.01	0.01	Attended FDP
5	NANDKUMAR NAGITHKAR	FDP Registration Fees	Mechanical Engineering	5 DAYS	0.01	0.01	Attended FDP
6	Dr. SADANAND SHELGAONKAR	Reimbursement Registration fees and Exam fees of NITTT Course	Mechanical Engineering	1 Month	0.03	0.03	Completed NITTT course
7	Dr. SANGRAM SAVARGAVE	Reimbursement Registration fees and Exam fees of NITTT Course	Mechanical Engineering	1 Month	0.03	0.03	Completed NITTT course
Amount Received (Rs.)					**2.39045**	**2.39045**	
Total Amount (Lacs) Received for the Past 3 Years					**6.99944**	**6.99944**	

Total Amount (Lacs) Received for the Past 3 Years: 6.99944

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	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the Technical Staff	Designation	Qualification
1	CNC Lab (B02)	20	CNC Lathe, VMC trainer, Flash Forge 3D Printer	12 hours	D. V. Kunte	Assistant Professor	M.E. (Manufacturing Systems)
2	Material Testing (006)	20	Universal Testing Machine, Impact Testing machine, Hardness Testing machine, Double Disk Polishing Machine, Furnace, Microstructure set Fatigue Testing Machine	6 hours	S. D. Bagg	Assistant Professor	M.E. (CAD/CAM and Robotics)
3	IMS and Automation Lab (001)	20	Surface Plate, slip gauge set, angle gauge, Vernier caliper, Micrometer Screw Gauges, Surface Roughness tester, Gear Roll tester, Vibration Test Rig, Governor and Gyroscope.	18 hours	N. V. Khatekar	Assistant Professor	M. Tech (Manufacturing)
4	Thermal Engineering II (B04)	20	Pelton Wheel Turbine Test Rig, Francis Turbine Test Rig, Reciprocating Pump Test Rig, Centrifugal pump Test Rig, Reciprocating Air compressor Test Rig, Petrol Engine Test Rig, Diesel Engine Test Rig	12 hours	N. D. Desai	Asst. Professor	M. E. (CAD/CAM and Robotics)
5	Thermal Engineering – I (002)	20	Air Conditioning Test Rig, Refrigeration Test Rig, Heat Pipe Apparatus, Thermal Conductivity Apparatus, Natural and Forced Convection, Cooling Tower test rig	6 hours	Dr. U. M. Momin	Assistant Professor	Ph.D. (Mech)
6	Machine Shop (010 and 011)	20	Precision Geared Lathe Machines, Universal Milling, Shaper machine, Centerless grinding Machine, Slotting machine.	12 hours	D. V. Kunte	Assistant Professor	M.E. (Manufacturing Systems)
7	Drawing Hall (014A-B,015)	25	Drawing Tables, Drawing Boards	66 hours	S.S.Jayawant	Assistant Professor	M.E. (CAD/CAM and Robotics)

D2. Safety Measures in Laboratories

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

S.No.	Name of the Laboratory	Safety Measures
1	Material Testing Lab No. 006	1) Students are allowed to operate instruments in the presence of Lab In-charge. 2) To keep a safe distance from swinging pendulum, barricades are provided around the equipment to ensure safety.
2	Thermal Engineering, I and II Lab No. 002 and B04	1) Students are allowed to operate instruments in the presence of Lab In-charge. 2) Students are instructed to operate and handle the equipment with care. 3) Students are advised to read safety instructions displayed inside the lab
3	IMS and Automation Lab No. 001	1) Students are allowed to operate instruments in the presence of instructor or Lab In-charge. 2) Students are made aware of the electric connections and proper way to operate the switches. 3) Rotating equipment like gyroscope and governor are safeguarded properly to ensure safety while operating.
4	Machine Shop Lab No. 010 and 011	1)Students are advised to read safety instructions displayed inside the lab. 2) Students wear safety goggles, hand gloves, apron to ensure safety while operating lathe machines and while performing welding operation.

D3. Project Laboratory/Research Laboratory

- Lab No. B03 has been allotted as Project Laboratory or Research Laboratory having lab area 102.78 m^2.
- Dr. A. S. Shinde has been appointed as Lab In-Charge of Project Lab.
- Based on the nature and scope of the projects, students use mechanical engineering project laboratory (Lab No. B03) or subject specific laboratories as and when needed under the guidance of project guide.
- In most of the mechanical engineering projects, students may have to use various machines or equipment available in different laboratories.

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))/RF4
2025-26	720	36	20	61	78.33
2024-25	720	36	19	54	72.22
2023-24	720	36	19	40	64.44
Average Percentage					71.66

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level for CFYm1(2024-25)

Total Income in the CFYm1 (2024-25)				Actual expenditure in the CFYm1	Total Students in the institute	Expenditure per student in CFYm1:
Fee	Govt.	Grant(s)	Other Sources (specify)			
35,89,30,208	-	-	18,69,053	35,19,30,956	2,642	1,33,206

Table No. E2.2: Budget and actual expenditure incurred at Institute level for CFYm2(2023-24)

Total Income in the CFYm2 (2023-24)				Actual expenditure in the CFYm2	Total Students in the institute	Expenditure per student in CFYm2:
Fee	Govt.	Grant(s)	Other Sources (specify)			
31,78,94,250	-	-	7,64,135	31,06,73,411	2,356	1,31,865

Table No. E2.3: Budget and actual expenditure incurred at Institute level for CFYm3(2022-23)

Total Income in the CFYm3 (2022-23)				Actual expenditure in the CFYm3	Total Students in the institute	Expenditure per student in CFYm3:
Fee	Govt.	Grant(s)	Other Sources (specify)			
30,64,69,863	-	-	7,68,249	26,14,28,596	2,320	1,12,685

Table No. E2.4: Information of other sources of income. (CFYm1, CFYm2, CFYm3)

Other Sources	**2022-23**	**2023-24**	**2024-25**
Interest income	3,91,619	5,65,177	6,09,696
Other Income	2,48,200	1,91,770	72,300
Sundry Balance Written back	13,841	554	9,86,300
Excess provision of Doubtful Debts written back	71,739	-	
Profit on Sale of Fixed Assets	42,850	6,634	89,757
Awards & Prizes			51,000
Sponsorship Received			60,000
Total	**7,68,249**	**7,64,135**	**18,69,053**

Table No. E2.5: Budget and actual expenditure incurred at Institute level for CFY(2025-26)

Items	**Budgeted in CFY (2025-26)**	**Actual expenses in CFY (till 31-12-2025)**
Infrastructure Built-Up	1,50,00,000	84,70,204
Library	5,00,000	2,55,214
Laboratory equipment	1,60,00,000	1,05,52,293
Teaching and non-teaching staff salary	28,00,00,000	16,34,13,904
Outreach Programs	5,00,000	5,205
R&D	6,00,000	3,83,808
Training, Placement and Industry linkage	50,00,000	2,36,124
SDGs	7,00,000	22,815
Entrepreneurship	-	-
Others*, pl. specify	7,00,00,000	4,34,76,745
Total amount	38,83,00,000	22,64,04,484

Table No. E2.6: Budget and actual expenditure incurred at Institute level. (CFYm1, CFYm2, CFYm3)

Items	Budgeted in CFYm1 (2024-25)	Actual expenses in CFYm1 (2024-25)	Budgeted in CFYm2 (2023-24)	Actual expenses in CFYm2 (2023-24)	Budgeted in CFYm3 (2022-23)	Actual expenses in CFYm3 (2022-23)
Infrastructure Built-Up	2,20,00,000	1,84,42,714	1,25,00,000	1,16,62,483	72,00,000	64,87,626
Library	10,00,000	6,22,504	10,00,000	8,72,741	10,00,000	8,19,009
Laboratory Equipment	1,50,00,000	1,14,44,657	2,20,00,000	2,02,66,497	1,00,00,000	85,06,361
Laboratory Consumables	8,00,000	6,91,478	6,00,000	4,32,310	4,00,000	2,95,987
Teaching & Non-Teaching Staff Salary	25,00,00,000	22,72,55,199	20,00,00,000	19,17,45,962	18,00,00,000	17,28,08,526
Maintenance And Spares	50,00,000	44,84,710	90,00,000	83,49,432	90,00,000	89,71,722
R&D	7,00,000	5,94,237	5,00,000	3,68,001	4,00,000	3,29,275
Training & Travel	50,00,000	40,72,998	25,00,000	19,57,052	15,00,000	12,65,418
Miscellaneous Expenses *	15,00,000	7,95,517	7,50,000	4,95,992	7,00,000	5,22,793
Others, Specify	9,38,00,000	8,35,26,942	8,14,00,000	7,45,22,941	7,05,50,000	6,14,21,879
Total	39,48,00,000	35,19,30,956	33,02,50,000	31,06,73,411	28,07,50,000	26,14,28,596

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level. CFYm1

Total Budget in CFYm1 (F.Y. 2024-25)		Total expenditure in CFYm1 (F.Y. 2024-25)		Total no. of students in CFYm1: 297 (F.Y. 2024-25)
Demanded	**Actual**	**Actual Expenditure**	**% Spent**	**Expenditure per student**
Rs.1065000.00	Rs.1065000.00	Rs.964578.21	90.57	Rs.3248.00

Table No. E3.2: Budget and actual expenditure incurred at program level. CFYm2

Total Budget in CFYm2 (F.Y. 2023-24)		Total expenditure in CFYm2 (F.Y. 2023-24)		Total no. of students in CFYm2: 396 (F.Y. 2023-24)
Demanded	**Actual**	**Actual Expenditure**	**% Spent**	**Expenditure per student**
Rs.600000.00	Rs.600000.00	Rs.558596.64	93.09	Rs. 1411.00

Table No. E3.3: Budget and actual expenditure incurred at program level. CFYm3

Total Budget in CFYm3 (F.Y. 2022-23)		Total expenditure in CFYm3 (F.Y. 2022-23)		Total no. of students in CFYm3: 462 (F.Y. 2022-23)
Demanded	**Actual**	**Actual Expenditure**	**% Spent**	**Expenditure per student**
Rs.1890000.00	Rs.1890000.00	Rs.1764872.21	93.38	Rs. 3820.00

. E3.4: Budget and actual expenditure incurred at program level. CFY

Items	Budgeted in CFY (₹)	Actual expenses in CFY (Till 22/12/2025) (₹)
Laboratory Equipment	225000.00	201645.49
Software	1200000.00	1170855.00
SDGs	25000.00	15715.00
Support for faculty development	8000.00	3300.00
Research & Development	25000.00	6500.00
Industrial training, industry expert, internship	10000.00	3000.00
Miscellaneous expenses* (* Maintenance and spares, consumables)	250000.00	92550.00
Total Amount	**17,43,000.00**	**14,93,565.00**

Table No. E3.5: Budget and actual expenditure incurred at program level. (CFYm1, CFYm2, CFYm3)

Items	Budgeted in CFYm1 (₹)	Actual expenses in CFYm1 (₹)	Budgeted in CFYm2 (₹)	Actual expenses in CFYm2 (₹)	Budgeted In CFYm3 (₹)	Actual expenses in CFYm3 (₹)
Laboratory Equipment	40000.00	34813.00	50000.00	43378.00	350000.00	331166.00
Software	550000.00	525100.00	250000.00	241900.00	1000000.00	914500.00
Laboratory Consumables	200000.00	172128.00	100000.00	91919.00	210000.00	203000.2
Maintenance and Spares	200000.00	170125.21	110000.00	102716.64	275000.00	269812.00
Research & Development	5000.00	4290.00	5000.00	2600.00	25000.00	21567.00

Training & Travel	20000.00	17958.00	10000.00	8154.00	10000.00	7500.00
Miscellaneous expenses	50000.00	40164.00	75000.00	67929.00	20000.00	17327.00
Total	10,65,000.00	9,64,578.21	6,00,000.00	5,58,596.64	18,90,000.00	17,64,872.20