

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 : 11534	Date of Submission : 26-02-2026

PART A- Profile of the Institute

A1. Name of the Institute : Marathwada Mitra Mandals Institute of Technology	
Year of Establishment : 2008	Location of the Institute: Pune
A2. Institute Address : Lohgaon Pune	
City: Pune	State: Maharashtra
Pin Code: 411047	Website: www.mmit.edu.in
Email: principal@mmit.edu.in	Phone No (with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Savitribai Phule Pune University	City: Pune
State : Maharashtra	Pin Code: 411007
A4. Type of the Institution : Non-Autonomous (Affiliated)	
A5. Ownership Status : Self financing	

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

- No. of UG programs: 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	Artificial Intelligence and Data Science	2021	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	2019	--	Civil Engineering
3	Engineering & Technology	UG	Computer Engineering	2008	--	Computer Engineering
4	Engineering & Technology	PG	Computer Engineering	2024	--	Computer Engineering
5	Engineering & Technology	UG	Mechanical Engineering	2008	--	Mechanical Engineering
6	Engineering & Technology	UG	Mechatronics Engineering	2020	--	Mechatronics Engineering
7	Engineering & Technology	PG	Robotics & Automation	2024	--	Mechanical Engineering
8	Engineering & Technology	UG	Robotics and Artificial Intelligence	2024	--	Robotics and Artificial Intelligence

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
Mechatronics Engineering	Yes	Mechatronics Engineering	UG
Computer Engineering	Yes	Computer Engineering	UG

Mechanical Engineering	Yes	Mechanical Engineering	UG
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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)

Allied Department/Cluster Name	Program Name	Program Level
Robotics and Artificial Intelligence	Robotics and Artificial Intelligence	UG
Mechatronics Engineering	Mechatronics Engineering	UG

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	2008 / --	60	Yes	2025	90	2025	Western/1-44642705464/2025/EOA dated 05/04/2025	Applying first time	--	--	0	4

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	Sanctioned Intake
2025-26	90
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	90

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	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	Mechatronics Engineering	Mechatronics Engineering	UG	2020 / --	30	Yes	2023	60	2023	Western/1-36460607822/2023/EOA dated 02/06/2023	Applying first time	--	--	0	4

Sanctioned Intake for Last Five Years for the Mechatronics Engineering	
Academic Year	Sanctioned Intake
2025-26	60
2024-25	60
2023-24	60
2022-23	30
2021-22	30
2020-21	30

SR.NO.	ALLIED DEPARTMENT NAME	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
2	Robotics and Artificial Intelligence	Robotics and Artificial Intelligence	UG	2024 / --	60	No	NA	60	2024	Western/1-43660085854/2024/EOA dated 13/05/2024	Not eligible for accreditation	--	--	0	4

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

A. Name of the HoD :	Dr. Anjali Jitendra Joshi
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)	90	60	60	60	60	90	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	73	58	41	40	17	7	23
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	19	25	17	36	101	46
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	4	5	7	5	2	2	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	77	82	73	62	55	110	69

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)	90	73	4	85.56
2024-25 (CAYm1)	60	58	5	105.00
2023-24 (CAYm2)	60	41	7	80.00

Average [(ER1 + ER2 + ER3) / 3] = 90.19≅ 20.00

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	96.00	191.00	166.00
B=No. of students who graduated from the program in the stipulated course duration	16.00	34.00	28.00
Success Rate (SR)= (B/A) * 100	16.67	17.80	16.87

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 17.11

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)	5.77	5.68	4.77
Y=Total no. of successful students	48.00	31.00	29.00
Z=Total no. of students appeared in the examination	63.00	48.00	45.00
API [X*(Y/Z)]	4.40	3.67	3.07

Average API[(AP1+AP2+AP3)/3] : 3.71

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)	5.37	5.23	4.60
Y=Total no. of successful students	32.00	23.00	26.00
Z=Total no. of students appeared in the examination	56.00	46.00	53.00
API [X * (Y/Z)]	3.07	2.62	2.26

Average API [(AP1 + AP2 + AP3)/3] : 2.65

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)	5.88	6.99	6.19
Y=Total no. of successful students	20.00	17.00	43.00
Z=Total no. of students appeared in the examination	23.00	26.00	98.00
API [X*(Y/Z)]:	5.11	4.57	2.72

Average API [(AP1 + AP2 + AP3)/3] : 4.13

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	96.00	191.00	166.00
X=No. of students placed	16.00	38.00	38.00
Y=No. of students admitted to higher studies	1.00	3.00	1.00
Z= No. of students taking up entrepreneurship	1.00	1.00	1.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	18.75	21.99	24.10

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. Anjali Jitendra Joshi	XXXXXXXX24C	Ph.D	RTM Nagpur University	Machine Design	29/04/2017	8.10	Associate Professor	Professor	01/07/2025	Regular	Yes		Yes
2	Dr. Girish Laxmikant Allampallewar	XXXXXXXX92M	Ph.D	SGB Amaravati University	CAD-CAM	26/08/2011	14.6	Assistant Professor	Associate Professor	01/07/2023	Regular	Yes		No
3	Dr. Dayanand Pandurang Yesane	XXXXXXXX85N	Ph.D	Savitribai Phule Pune University, Pune	Design Engineering	11/05/2009	16.9	Lecturer	Associate Professor	01/01/2026	Regular	Yes		No
4	Dr. Sachin Vyasrao Mutalikdesai	XXXXXXXX28R	Ph.D	Savitribai Phule Pune University, Pune	Heat Power	06/06/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. Eknath Dnyandeo Kurhe	XXXXXXXX94F	M.E.	Savitribai Phule Pune University, Pune	Heat Power	13/08/2008	17.6	Lecturer	Assistant Professor		Regular	Yes		No
6	Mr. Dhananjay Manohar Bhoge	XXXXXXXX00G	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	26/02/2011	15	Lecturer	Assistant Professor		Regular	Yes		No
7	Mr. Naresh Bharateshwar Dhamane	XXXXXXXX14G	M.E.	Savitribai Phule Pune University, Pune	Heat Power	21/06/2012	13.8	Lecturer	Assistant Professor		Regular	Yes		No
8	Mr. Rohit Purushottam Polas	XXXXXXXX64H	M.Tech	Savitribai Phule Pune University, Pune	Thermal Engineering	06/04/2017	8.10	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. Sudhir Sarjerao More	XXXXXXXX10L	M.Tech	IIT Bombay	Manufacturing Engineering	05/01/2012	14.1	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr. Hrishikesh Uttamrao Gadekar	XXXXXXXX64Q	M.E.	PAH Solapur University	Design Engineering	16/06/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Dr. Bhuvaneshwar Dnyandeo Patil	XXXXXXXX44Q	Ph.D	SJJT University Jhunjhunu	Design Engineering	30/12/2020	5.1	Assistant Professor	Associate Professor	01/07/2025	Regular	Yes		No

12	Mr. Rajesh Pundlikrao Dharmale	XXXXXXXX24L	M.E.	Savitribai Phule Pune University, Pune	Manufacturing and Automation	06/07/2022	3.7	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Dr. Amol Sadashiv Bhanage	XXXXXXXX55E	Ph.D	Vellore Institute of Technology, Vellore	CAD-CAM	08/07/2013	12.7	Assistant Professor	Professor	01/07/2025	Regular	Yes		No
14	Dr. Rupesh Vasudeo Bhortake	XXXXXXXX52J	Ph.D	North Maharashtra University, Jalgaon	Noise and Vibration	01/12/2017	8.2	Professor	Professor	01/12/2017	Regular	Yes		No

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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. Nilesh Nandkumar Satonkar	XXXXXXXX23L	XXXXXXXXXX859	Ph.D	Vellore Institute of Technology, Vellore	CAD-CAM	12/02/2024	2	Assistant Professor	Assistant Professor		Regular	Yes		No
2	Ms. Shilpa Namdeo Tambe	XXXXXXXX91C	XXXXXXXXXX952	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	16/06/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Dr. Sonali Shrikant Patil	XXXXXXXX80A	XXXXXXXXXX990	Ph.D	Savitribai Phule Pune University, Pune	Design Engineering	04/08/2022	3.6	Assistant Professor	Associate Professor	01/07/2025	Regular	Yes		No
4	Dr. Mukesh Gitaram Ghogare	XXXXXXXX01Q	NA	Ph.D	Savitribai Phule Pune University, Pune	Instrumentation and Control Engineering	01/07/2023	2	Associate Professor	Associate Professor		Regular	No	30/06/2025	No
5	Mr. Nilesh Chandrakant Dhobale	XXXXXXXX05A	XXXXXXXXXX178	M.Tech	Vellore Institute of Technology, Vellore	Mechatronics	15/02/2024	2	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Dr. Jayashree Deka	XXXXXXXX84B	XXXXXXXXXX011	Ph.D	Assam Don Bosco University, Guwahati, Assam	Electronics Design & Technology	14/06/2024	1.8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Ms. Mayuri Sanjay Mhaske	XXXXXXXX06R	XXXXXXXXXX501	M.E.	Savitribai Phule Pune University, Pune	Design Engineering	14/06/2024	1.8	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Dr. Yogita Subhash Pimpale	XXXXXXXX00R	XXXXXXXXXX866	Ph.D	Lovely Professional University	Instrumentation and control Engineering	01/07/2024	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Yogini Dilip Borole	XXXXXXXX15D	XXXXXXXXXX367	Ph.D	Dr Babasaheb Ambedkar Marathwada University	Electronics VLSI	10/07/2024	1.7	Associate Professor	Professor	01/07/2025	Regular	Yes		No

10	Mrs. Madhuri Pradip Shejal	XXXXXXXX10C	XXXXXXXXXX548	M.E.	Savitribai Phule Pune University, Pune	signal processing	16/06/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. Akshay Ujjwal Padekar	XXXXXXXX31F	XXXXXXXXXX447	M.Tech	National Institute of Technology Karnataka, Surathkal	Manufacturing Engineering	16/06/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr. Shankar Dattatray Deshmukh	XXXXXXXX49R	XXXXXXXXXX150	M.Tech	University Of Mumbai	E&TC	19/06/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Ms. Shital Raybhan Khande	XXXXXXXX46B	XXXXXXXXXX316	M.E.	Savitribai Phule Pune University, Pune	VLSI & ES	01/07/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr. Atul Gorakhnath Karle	XXXXXXXX50L	XXXXXXXXXX495	M.E.	Savitribai Phule Pune University, Pune	VLSI & ES	01/07/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Ms. Apurva Rajiv Ulhe	XXXXXXXX51Q	NA	M.E.	Savitribai Phule Pune University, Pune	Power Electronics and Drive	04/10/2021	3.7	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	No
16	Dr. Gargi Sanjeev Yadav	XXXXXXXX67L	NA	Ph.D	Indian Institute of Technology Delhi	Mechanical engineering	01/07/2023	1.3	Assistant Professor	Assistant Professor		Regular	No	23/10/2024	No
17	Mr. Shashikant Vasant Golande	XXXXXXXX71N	NA	M.E.	Savitribai Phule Pune University, Pune	electrical power system	01/06/2023	0.11	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No
18	Mr. Sanket Ichharam Barde	XXXXXXXX75J	XXXXXXXXXX194	M.E.	Savitribai Phule Pune University, Pune	electrical power system	16/01/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mr. Harshal Dattatraya Vaidya	XXXXXXXX42F	XXXXXXXXXX982	M.E.	Dr. Babasaheb Ambedkar Marathwada University,Aurangabad	Electrical Drive and Control	01/07/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. Meghna Yashwante	XXXXXXXX13E	49393641667	Ph.D	Savitribai Phule Pune University, Pune	Electrical	01/06/2009	16.9	Assistant Professor	Professor	01/07/2025	Regular	Yes		No
21	Mr. Vishal Vishwas Kulkarni	XXXXXXXX62R	XXXXXXXXXX075	M.E.	Savitribai Phule Pune University	Design Engineering	06/06/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Dr. Praful Kumar Ganti	XXXXXXXX93K	NA	Ph.D	National Institute of Technology Rourkela	Electrical	15/06/2023	0.11	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No
23	Mr. Martand Pandurang Pandagale	XXXXXXXX67J	XXXXXXXXXX849	M.Tech	SRTMU Nanded	CAD-CAM	01/12/2025	0.2	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Mrs. Pallavi Vivek Munde	XXXXXXXX79M	XXXXXXXXXX114	M.E.	Shivaji University, Kolhapur	Electronics and Telecommunication	28/01/2026	0	Assistant Professor	Assistant Professor		Regular	Yes		No

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 Department 3 No. of PG Programs in the Department 1

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	99
UG1: Mechanical Engineering	198	198	231
UG2.B	66	0	0
UG2.C	0	0	0
UG2.D	0	0	0
UG2: Robotics and Artificial Intelligence	66	0	0
UG3.B	66	66	33
UG3.C	66	33	33
UG3.D	33	33	33
UG3: Mechatronics Engineering	165	132	99
PG1.A	6	6	0
PG1.B	6	0	0
PG1: Robotics & Automation	12	6	0
DS=Total no. of students in all UG and PG programs in the Department	210	204	231
AS=Total no. of students of all UG and PG programs in allied departments	231	132	99
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 441	S2= 336	S3= 330
DF=Total no. of faculty members in the Department	14	13	13
AF= Total no. of faculty members in the allied Departments	17	12	9
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 31	F2= 25	F3= 22
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= 15.75	SFR2= 14.61	SFR3= 16.50
Average SFR for 3 years	SFR= 15.62		

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 = $2.5 * [(10X + 4Y) / RF]$
2025-26(CAY)	12	19	22.00	22.27
2024-25(CAYm1)	12	13	16.00	26.88
2023-24(CAYm2)	9	13	16.00	22.19

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	2.00	5.00	4.00	3.00	14.00	23.00
2024-25	1.00	1.00	3.00	6.00	11.00	18.00
2023-24	1.00	1.00	3.00	4.00	11.00	17.00
Average	RF1=1.33	AF1=2.33	RF2=3.33	AF2=4.33	RF2=12.00	AF2=19.33

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	Mr. Ketan Kadam	Trainer	Graphix Technologies Pvt. Ltd. Pune.	Advanced course in CATIA V5	60.00
2	Mr. Ashish Shelke	Trainer	Graphix Technologies Pvt. Ltd. Pune.	Fundamentals of Solidworks	20.00

(CAYm2)

(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	13	17	4
2	No. of peer reviewed conference papers published	2	1	2
3	No. of books/book chapters published	3	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
Mr. Sudhir S. More	NA	Mechanical Engineering	INFOSYS Foundation Centre for Engineering Education Excellence Program 2024-25	Indian National Academy of Engineering	1 Year	0.50
Dr. Girish L. Allampallewar	Dr. Yogini Borole	Mechanical Engineering	Development of customized suspension for ATV	RAMBAL, Chennai	1 Year	5.00
						Amount received (Rs.):5.50

(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
Harshal Korhale, Suyash Lokhande, Sumit Mate, Atish Lad	Mr. Rohit P. Polas	Mechanical Engg	Design and development of Sugarcane Cultivation and Fertilization	Aguatech Engineers Pvt. Ltd.	10 months	0.23
Mr. Dhame Gokul, Mr. Mujawar Samir, Mr. Naseer husain Madmod, Mr. Mare Avinash	Mr. Naresh B. Dhamane	Mechanical Engg	Design and development of Outer Door handle (ODH) Remover Mechanism	Rushikesh Enterprises Pvt. Ltd.	10 months	0.16
Mr. Swapnil Chandole, Mr. Hrishikesh Thakare, Mr. Varshiket Hankare, Mr. Shivshankar Kure	Dr. Girish L. Allampallewar	Mechanical Engg	Design and simulation of Butterfly Damper	Sude Engg Corporation, Pune	10 months	0.30
						Amount received (Rs.):0.69

Total Amount (Lacs) Received for the Past 3 Years: 6.19

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
Dr. Girish L. Allampallewar	Edgeline Championship (Gokart)	1 Year	2.76	2.76	Developed practical skills in design, fabrication, and assembly of Go-Kart.
Dr. Girish L. Allampallewar	Aravalli Terrain Vehicle Championship 2025	1 Year	1.69	1.69	Gained hands-on experience in All Terrain Vehicle (ATV) design, fabrication, and testing.
Mr. Sudhir S. More	Lean Manufacturing Practices	1 Year	0.06	0.06	Training in Lean Manufacturing
Dr. Amol Bhanage	International Conference	3 Days	0.03	0.03	Paper Presentation
			Amount received (Rs.): 4.54		

(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
Mr. Sudhir S. More	Registration fees Eduskill Connect	1 Year	0.24	0.24	Skill development
Dr. Girish L. Allampallewar	Indian Superkarting Championship 2024	1 Year	1.77	1.77	Gained practical experience in Go-Kart design, fabrication, and performance testing.
Mr. Amol Bhanage	Registration amount (50%) regarding paper presentation at national conference	2 Days	0.02	0.02	Paper presentation
Mr. Amol Bhanage	Registraion fees for ISTE Maharashtra Goa section Award Ceremony	1 Days	0.01	0.01	Award
Mr. Amol Bhanage	Registration fees for Short Term Course On Manufacturing And Mechanics Of Composites IIT Kharagpur	4 Days	0.01	0.01	Training
Mr. Sudhir S. More	Traveling charges for attending Eduskill Connect	4 Days	0.04	0.04	Training
Dr. Anjali Joshi	LMP Leadership Meet -up at IIM Bengalore	3 Days	0.10	0.10	Enhanced participants' leadership, Lean management, problem-solving skills, and industry networking exposure.
			Amount received (Rs.): 2.19		

(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
Dr.Girish L. Allampallewar	All Terrain Vehicle Championship (ATVC 2023)	1 Year	1.97	1.97	Gained hands-on experience in designing, fabricating, and testing an ATV while developing engineering, teamwork, and problem-solving skills
Dr.Girish L. Allampallewar	Auto India Racing Championship (AIRC 2023)	1 Year	0.56	0.56	Gained hands-on experience in designing , automation, and problem-solving skills
Dr.Amol Bhanage	Membership of Maha Training & Placement Officers	1 Year	0.05	0.05	Placement
			Amount received (Rs.): 2.58		

Total amount (Lacs) received for the past 3 years : 9.31

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	Workshop (Central Facility)	20	⇒ CNC Lathe ⇒ Arc welding Machine ⇒ Milling Machine ⇒ Spot Welding Machine ⇒ Lathe Machine	30 Hrs/week	Mr. S. L. Adsure/ Mr. N. J Dc	Technical Assistant/ Instructr	Diploma in Mechanical Engi
2	Digital Manufacturing Lab /Engineering Metallurgy Lab /Solid Mechanics Lab	20	⇒ 3-D Printing Machine ⇒ Impact Testing Machine ⇒ Brinell hardness Tester ⇒ Rockwell Hardness Tester ⇒	30 Hrs/week	Mr. S. L. Adsure	Technical Assistant	Diploma in Mechanical Engi

3	Thermodynamics Lab /Turbomachinery / Heating Ventilation and Air Conditioning	20	⇒ Separating and Throttling Calorimeter ⇒ Bomb Calorimeter ⇒ Junker's Gas Calorimeter ⇒ Single Orifice Discharge ⇒ 2 Orifice Discharge	30 Hrs/Week	Mr. P. S. Thombare	Technical Assistant	Diploma in Mechanical Engi
4	Fluid Mechanics Lab	20	⇒ Bernoulli's Apparatus ⇒ Major/Minor Loss ⇒ Reynold's Apparatus ⇒ Venturimeter & Orificemeter ⇒ Reduced Viscosity	12 Hrs/Week	Mr. S. L. Adsure	Technical Assistant	Diploma in Mechanical Engi
5	CAD Lab	20	⇒ Ansys 2024 R1 + CFD ⇒ MATLAB 2014 ⇒ MasterCAM X7 ⇒ CATIA V5 R20 ⇒ Robo Analyzer	30 Hrs /week	Mr. S. L. Adsure	Technical Assistant	Diploma in Mechanical Engi
6	Dynamics Of Machinery Lab / Kinematics of Machinery Lab	20	⇒ Shock Absorber Test Rig ⇒ Universal Vibration Tester ⇒ Static And Dynamic Apparatus ⇒ Rion 2 Channel FFT Analyzer ⇒ RION True Strain FFT	12 Hrs/week	Mr. S. L. Adsuree/ Mr. P. S. .	Technical Assistant	Diploma in Mechanical Engi
7	Measurement Lab / Mechatronics Lab	20	⇒ Jominy End Quench Test Apparatus/ ⇒ ⇒ Ultrasonic Flow Detector Calibration of Thermocouple ⇒ Load Cell Test ⇒ Load Meas. ⇒ Impact Test ⇒	12 Hrs/week	Mr. S. L. Adsure/ Mrs.Laxmi	Technical Assistant / Demon	Diploma in Mechanical Engi
8	Heat Transfer Lab	20	⇒ Natural convection Apparatus ⇒ Forced Convection Apparatus ⇒ Emmissivity Measurement ⇒ Thermal Conductivity of Powder	6 Hrs/week	Mr. P. S. Thombare	Technical Assistant	Diploma in Mechanical Engi
9	Skill Development Lab /Design of Machine Element Lab	20	⇒ Gear Box ⇒ Four Stroke Engine ⇒ Sluice Valve	6 Hrs/week	Mr. S. L. Adsure/ Mrs.Laxmi	Technical Assistant / Demon	Diploma in Mechanical Engi

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Workshop (Central Facility)	⇒ During each lab session, always follow essential safety measures: ⇒ Wear safety goggles or a face shield, steel-toe safety shoes, ⇒ Ear protection (earplugs or earmuffs), ⇒ Proper working dress such as an apron. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
2	Digital Manufacturing Lab / Engineering Metallurgy Lab/Solid Mechanics Lab	⇒ The Digital Manufacturing Laboratory ensures safety by enforcing the use of machine guarding, emergency stop switches, and proper ventilation, along with regular safety training, equipment maintenance, and availability of fire extinguishers and first-aid kits. ⇒ The Engineering Metallurgy Laboratory ensures safety by using PPE like gloves, goggles, and aprons, handling hot materials carefully, maintaining proper ventilation, using appropriate tools, and keeping flammable materials away from hot zones. ⇒ In the Solid Mechanics Lab, students must follow essential safety measures such as ensuring proper alignment of the specimen and grips before testing, standing away from the line of load during operation, applying load gradually to avoid sudden failure, keeping hands clear of moving and loaded components, and wearing safety goggles and shoes to ensure safe and effective experimentation. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
3	Fluid Mechanics Lab	⇒ The Fluid Mechanics Laboratory ensures safety by checking proper earthing, inspecting pipes and valves for leakage, operating pumps gradually, avoiding contact with rotating parts and dry running, maintaining a dry floor, using emergency stops when needed, and wearing safety shoes with no loose clothing. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
4	Thermodynamics Lab/Turbomachinery/Refrigeration & Air Conditioning Lab/ Hydraulics and Pneumatics	⇒ The Thermodynamics Laboratory ensures safety by checking pressure gauges, valves, and connections before operation, carefully handling hot surfaces and steam lines, maintaining proper ventilation, avoiding overloading or over-pressurizing the system, and using safety shoes and heat-resistant gloves. ⇒ In the Turbomachinery Lab, students must follow essential safety practices such as checking proper alignment and balancing of rotors and turbines before operation, keeping hands, hair, and loose clothing away from rotating parts, operating machines at recommended speeds and loads, using guards and emergency stop mechanisms in case of abnormal vibration or noise, and wearing safety goggles, gloves, and safety shoes to ensure safe and effective experimentation. ⇒ The Refrigeration and Air Conditioning Laboratory follows safety measures by checking refrigerant lines and joints for leakage, ensuring proper ventilation to prevent refrigerant accumulation, avoiding system overcharging, keeping hands away from moving parts of compressors and fans, and using PPE such as safety shoes and insulated gloves. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.

5	CAD Lab	⇒ The CAD/CAM Lab, students must follow essential safety and operational guidelines such as using only authorized software and correct programs, verifying tool paths through simulation before execution, ensuring proper work holding and accurate tool setup, maintaining a safe distance during machine operation, and adhering to electrical and computer safety rules to ensure safe and efficient lab practices. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
6	Dynamics Of Machinery Lab//Kinematics of Machinery Lab	⇒ The Dynamics of Machinery Lab, students must follow essential safety precautions such as ensuring proper mounting and balancing of rotating parts, keeping hands and loose clothing away from moving mechanisms, operating equipment only at prescribed speeds, using safety guards and emergency stop mechanisms when required, and wearing safety goggles and shoes to ensure safe and smooth laboratory operations. ⇒ The Kinematics of Machinery Lab, students must follow essential safety precautions such as checking proper assembly and alignment of mechanisms before operation, keeping hands, hair, and loose clothing away from moving links, operating the setup only at prescribed speeds, using safety guards and emergency stop mechanisms when required, and wearing safety goggles and shoes to ensure safe and effective laboratory work. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
7	Measurement Lab/Mechatronics Lab	⇒ The Measurement Lab, students must follow essential safety and handling practices such as carefully handling precision instruments to prevent damage, ensuring clean workpieces and measuring surfaces for accurate results, avoiding excessive force during measurements, properly storing instruments after use, and wearing safety shoes while maintaining a clean and organized workspace to ensure reliable and safe laboratory operations. ⇒ In the Mechatronics Lab, students must follow essential safety practices such as checking proper electrical connections and earthing before operation, avoiding loose clothing or jewelry near moving parts, operating actuators, motors, and sensors within safe limits, using emergency stop mechanisms in case of abnormal conditions, and wearing safety shoes while adhering to all lab rules to ensure safe and effective experimentation. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
8	Heat Transfer Lab	⇒ In the Heat Transfer Lab, students must follow essential safety precautions such as checking proper electrical connections and earthing before operation, avoiding overheating or running the system dry, using emergency stop or shut-off mechanisms in case of any abnormality, and wearing safety goggles, gloves, and shoes to ensure safe and efficient experimentation. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.
9	Skill Development Lab/Design of Machine Element Lab/Design of Machine Element Lab	⇒ The Skill Development Lab, students must follow essential safety practices such as ensuring proper use of tools and machines before starting work, keeping hands, hair, and loose clothing away from moving parts, operating equipment within safe limits, using emergency stop mechanisms in case of abnormal conditions, and wearing safety goggles, gloves, and shoes to ensure safe and effective hands-on learning. ⇒ The Design of Machine Elements Lab, students must follow essential safety practices such as checking proper assembly of components and instruments before use, keeping hands and clothing away from moving parts, handling specimens and tools carefully to prevent damage, using emergency stop mechanisms in case of any abnormality, and wearing safety goggles, gloves, and shoes to ensure safe and effective experimentation. ⇒ In the Design of Transmission System Lab, students must follow essential safety practices such as checking proper alignment and assembly of shafts, gears, and belts before operation, keeping hands, hair, and loose clothing away from rotating parts, operating machines and transmission setups at safe speeds, using guards and emergency stop mechanisms in case of abnormal conditions, and wearing safety goggles, gloves, and shoes to ensure safe and effective experimentation. ⇒ A fire extinguisher is available. ⇒ First-aid kits are available at the department office. ⇒ Do's & Don'ts are displayed in each laboratory. ⇒ The laboratory is under CCTV surveillance.

D3. Project Laboratory/Research Laboratory

A. Project Laboratory / Research Laboratory :

The Project Laboratory is established to support students in carrying out mini projects, major projects, and innovative prototype development in accordance with the curriculum requirements. The laboratory is equipped with the necessary hardware, software, mechanical tools, and testing facilities that enable students to apply theoretical knowledge to practical engineering problems. It provides a conducive environment for students to design, analyze, fabricate, assemble, test, and validate engineering solutions.

Objective: The Mechanical Project Laboratory aims to enable students to apply theoretical knowledge in designing, developing, and testing mechanical systems while enhancing innovation, teamwork, and problem-solving skills.

The laboratory encourages innovation, creativity, teamwork, and problem-solving abilities among students while strengthening their technical competencies. Through active engagement in project-based learning, students gain hands-on experience in modern engineering tools and technologies, which contributes significantly to the attainment of course outcomes (COs) and program outcomes (POs). The facility also supports activities such as technical discussions, design reviews, simulation studies, prototype development, and project demonstrations.

Infrastructure and Facilities Available in Project Laboratory

1. Internet Connectivity

The laboratory is provided with high-speed internet connectivity to support research activities, literature surveys, access to online technical resources, e-journals, and project-related documentation. It enables students to explore modern engineering solutions and remain updated with the latest technological advancements.

2. Computer Systems (PCs)

Adequate numbers of computer systems with appropriate configuration are available in the laboratory. These systems are used for design, modeling, simulation, analysis, programming, and documentation of project work. The computers facilitate the use of various engineering software tools required for project development.

3. Seating and Workspace Arrangement

The laboratory has adequate seating arrangements and dedicated workspace for students to work in project groups. The arrangement supports collaborative learning, technical discussions, design planning, and systematic execution of project activities.

4. Software Facilities

The laboratory provides access to various engineering and design software tools required for project development. These include:

CAD Software: Free CAD, Auto CAD

CNC programming and simulation software for manufacturing-related projects.

Computational tool: Scilab

Documentation and presentation software for preparing project reports and presentations.

5. Mechanical Tools and Equipment

The project laboratory is equipped with a variety of mechanical tools and measuring instruments that support fabrication, assembly, and testing of project prototypes. These include:

Hand tools: spanners, screwdrivers, hammers, pliers, Allen keys, files, and cutting tools.

Measuring instruments: vernier calipers, micrometers, steel rules, dial gauges, and measuring tapes.

Basic fabrication and assembly tools required for prototype development and component fitting.

6. Project Development and Testing Facilities

The laboratory provides facilities for prototype development, component assembly, testing, and performance validation of student projects. Students can implement their project ideas and evaluate their performance under faculty guidance.

Table 7.5.1: Details of BE Projects during assessment period

Sr. No.	Academic Year	Total no. of Project Groups	No. of Industry Sponsored/Mentored Projects	Name of Industry	POs/PSO Addressed
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1	2024-25	5	1	Shree Casting & Engineers LLP, Pune	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11,PO12, PSO1, PSO2
2	2023-24	13	-	-	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11,PO12, PSO1, PSO2
3	2022-23	17	3	Rushikesh Enterprise Pvt. Ltd. Bhosari, PCMC, Pune Aquatech Engineers Pvt. Ltd. Wagholi, Pune Sude Engineering Corporation, Dhanore, Pune	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11,PO12, PSO1, PSO2

B. Centre of Excellence (CoE) / PG Laboratory

Centre of Excellence (CoE) –Graphix Technology Pvt.Ltd.

The department has established a Centre of Excellence (CoE) in collaboration with Graphix Technology Pvt.Ltd. aimed at providing industry-oriented training in emerging technologies. This CoE is serving as a dedicated platform to provide experiential learning, industry-relevant training, and exposure to modern tools and technologies. It will also act as a hub for innovation, skill development, and collaborative learning, benefiting both students and faculty members while strengthening industry–institute interaction.

This facility serves as a dedicated platform to enhance students’ practical knowledge, technical competencies, and industry readiness

Focus Area

- Design & Engineering Skills – CAD modeling, product design, and digital prototyping
- Simulation & Analysis – CAE tools for performance testing and optimization
- Emerging Technologies – Additive manufacturing (3D printing), Industry 4.0, reverse engineering
- Product Lifecycle Management (PLM) – End-to-end understanding of product development
- Industry-Oriented Training – Practical exposure aligned with real industrial requirements

Objectives

The Center of Excellence is envisioned to achieve multiple academic and professional development goals. It aims to provide structured, industry-oriented technical training programs that go beyond the conventional curriculum and focus on practical application of engineering concepts. By doing so, it seeks to significantly enhance the employability of students by equipping them with in-demand technical and soft skills. Additionally, the CoE will promote a culture of research, innovation, and problem-solving among students and faculty by encouraging participation in real-time projects, competitions, and consultancy assignments. Faculty development is another key objective, where training programs and workshops will be conducted to upgrade teaching methodologies and technical expertise. Overall, the CoE will strive to develop competent, confident, and industry-ready engineering professionals capable of meeting global standards.

Key Features

The CoE will offer a structured and industry-aligned learning ecosystem through:

- **Hands-on Experiential Learning** – Practical sessions using real-world tools and case studies
- **Industry-Standard Software & Tools** – Access to licensed CAD/CAM/CAE platforms
- **Expert-Led Training** – Sessions by industry professionals from Graphix Technologies Pvt. Ltd.
- **Live Projects & Internships** – Exposure to real industrial challenges and workflows
- **Faculty Development Programs (FDPs)** – Continuous upskilling of teaching staff
- **Certification Programs** – Industry-recognized certifications to validate skills

Benefits

Following courses and workshops have conducted for the students as well as faculties:

- Certification Course in CATIA and Solidworks
- Workshop on Industry 4.0 with Design Domain
- Workshop on Geometric Dimensioning and Tolerances
- Workshop on Product Life Cycle- Design and Development
- Selection of students for Scholarship Program offered by the Company

Table7.5.2: Activity carried out under CoE

Topic	Date of Conduction	No. of Beneficiary	POs/PSO Addressed
Workshop on Product Lifecycle: Design and Development	16/04/2025 to 17/04/2025	47	PO1, PO2,PO3, PO5, PSO2
Technical Training on CATIA & Solidworks Tool	24/02/2025 to 08/03/2025	25	PO1, PO2,PO3, PO5, PSO2
Workshop on Geometric Dimensioning & Tolerances	15/10/2024 to 17/10/2024	32	PO1,PO2, PSO1, PSO2
Workshop on “Industry 4.0 with Design Domain”	01/02/2024	56	PO1, PO2
Internship	09/02/2026	01	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8,PO9 PO10, PO12, PSO1, PSO2

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)	360	18	10	0	44
2024-25(CAYm1)	420	21	10	0	38
2025-26(CAY)	510	26	13	0	40

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

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up //	0	183168.00	0	0	0	0	0	0
Library //	500000.00	200216.88	100000.00	449707.00	500000.00	465599.00	230000.00	0
Laboratory equipment //	8600000.00	13836259.29	5986000.00	5446620.81	24435000.00	26806716.53	7446000.00	7030831.38
Teaching and non-teaching staff salary //	118946085.90	115225042.00	86364310.00	101411795.00	74300480.00	78215634.00	57229560.00	62022284.00
Outreach Programs //	150000.00	130628.32	150000.00	66658.00	125000.00	51667.88	200000.00	81585.09
R&D //	350000.00	510602.28	910000.00	778880.40	505000.00	588291.62	575000.00	431249.59
Training, Placement and Industry linkage //	50000.00	332593.14	100000.00	507679.00	705000.00	82605.58	300000.00	70587.84
SDGs //	2435000.00	3365430.12	1800000.00	2616788.67	5675000.00	2989077.00	5260000.00	4297680.00
Entrepreneurship //	103000.00	15500.00	75000.00	29000.00	85000.00	18500.00	0	0
Others, specify //	45337000.00	40805641.28	33142000.00	35750305.61	37760600.00	31130104.74	22812001.00	35284284.807
Total	176471085.90	174605081.31	128627310.00	147057434.49	144091080.00	140348196.35	94052561.00	109218502.707

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 //	750000.00	656152.00	538000.00	0	2140000.00	1972387.00	260000.00	216688.00
Software //	0	0	0	0	400000.00	0	0	0
SDGs //	800000.00	550721.00	700000.00	631803.00	1310000.00	1290553.00	2025000.00	2176920.00
Support for faculty development //	75000.00	32737.00	55000.00	38915.00	50000.00	11800.00	50000.00	0
R & D //	250000.00	312150.00	730000.00	477865.00	390000.00	269094.00	395000.00	327137.00
Industrial Training, Industry expert, Internship //	10000.00	5500.00	10000.00	6250.00	25000.00	19309.00	10000.00	0
Miscellaneous Expenses* //	1442500.00	1375198.00	709000.00	1267945.00	2745500.00	1753213.00	2920000.00	2106509.00

Total	3327500.00	2932458.00	2742000.00	2422778.00	7060500.00	5316356.00	5660000.00	4827254.00
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