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**: 1
Application No: 10774	**Date of Submission**: 18-06-2025

PART A- Profile of the Institute

A1.Name of the Institute: Maharashtra Institute of Technology	
Year of Establishment : 2001	Location of the Institute: Auranagabad
A2. Institute Address:NH-211, Satara Village Road, Beed Bypass, Aurangabad	
City:Aurangabad	State:Maharashtra
Pin Code:431010	Website:https://btech.mit.asia
Email:principal.mitt@mit.asia	Phone No(with STD Code):0240-2375111
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Dr Babasaheb Ambedkar Marathwada University Aurang	City: Aurangabad
State : Maharashtra	Pin Code: 431004
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: **12**
- No. of PG programs: **12**

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	Architecture	UG	Architecture	2024	--	Architecture
2	Architecture	PG	Architecture	2024	--	Architecture
3	Computer Application	PG	Master of Computer Application	2022	--	Computer Application
4	Engineering & Technology	UG	Agricultural Engineering	2001	--	Agricultural Engineering
5	Engineering & Technology	PG	Artificial Intelligence	2023	--	Electronics and Computer Engineering
6	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Artificial Intelligence and Data Science
7	Engineering & Technology	UG	Civil Engineering	2001	--	Civil Engineering
8	Engineering & Technology	PG	Computer Science & Technology	2013	--	Computer Science and Engineering
9	Engineering & Technology	UG	Computer Science and Design	2022	--	Artificial Intelligence and Data Science
10	Engineering & Technology	UG	Computer Science and Engineering	2001	--	Computer Science and Engineering
11	Engineering & Technology	PG	Computer Science and Engineering	2022	--	Artificial Intelligence and Data Science
12	Engineering & Technology	PG	Electrical Drives & Control	2022	--	Electrical Engineering
13	Engineering & Technology	UG	Electrical Engineering	2014	--	Electrical Engineering
14	Engineering & Technology	UG	Electronics & Computer Engineering	2021	--	Electronics and Computer Engineering
15	Engineering & Technology	PG	Electronics and Telecommunication Engineering	2014	--	Electronics and Computer Engineering
16	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2024	--	Electronics and Computer Engineering
17	Engineering & Technology	PG	Food Processing Technology	2013	--	Agricultural Engineering
18	Engineering & Technology	PG	Mechanical Engineering	2012	--	Mechanical Engineering
19	Engineering & Technology	UG	Mechanical Engineering	2001	--	Mechanical Engineering
20	Engineering & Technology	UG	Mechatronics Engineering	2024	--	Mechanical Engineering
21	Engineering & Technology	UG	Plastic and Polymer Engineering	2001	--	Plastic and Polymer Engineering
22	Engineering & Technology	PG	Polymer Science & Technology	2024	--	Plastic and Polymer Engineering
23	Engineering & Technology	PG	Structural Engineering	2022	--	Civil Engineering
24	Management	PG	Master of Business Administration	2009	--	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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION

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	2001 / --	60	Yes	2022	120	2022	western/1-10975254537/2022/EOA	Granted accreditation for 3 years for the period (specify period)	2022	2025	1	4

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	**Sanctioned Intake**
2024-25	120
2023-24	120
2022-23	120
2021-22	60
2020-21	120
2019-20	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. Keche Ashok Jayawantrao
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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE / Competent authority)	120	120	120	60	120	180	180
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	110	95	102	24	17	22	92
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	36	36	45	94	58	101
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	14	16	11	5	3	5	5
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	124	147	149	74	114	85	198

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]
2024-25 (CAY)	120	110	14	103.33
2023-24 (CAYm1)	120	95	16	92.50
2022-23 (CAYm2)	120	102	11	94.17

Average [(ER1 + ER2 + ER3) / 3] = 96.67≡ 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	214.00	238.00	281.00
B=No. of students who graduated from the program in the stipulated course duration	67.00	66.00	156.00
Success Rate (SR)= (B/A) * 100	31.31	27.73	55.52

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 38.19

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	8.34	7.57	7.82
Y=Total no. of successful students	85.00	62.00	18.00
Z=Total no. of students appeared in the examination	95.00	102.00	24.00
API [X*(Y/Z)]	7.46	4.60	5.86

Average API[(AP1+AP2+AP3)/3] : 5.97

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	7.83	7.73	8.30
Y=Total no. of successful students	64.00	55.00	103.00
Z=Total no. of students appeared in the examination	98.00	63.00	114.00
API [X * (Y/Z)]	5.11	6.75	7.50

Average API [(AP1 + AP2 + AP3)/3] : 6.45

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)

X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.35	7.70	8.22
Y=Total no. of successful students	46.00	77.00	78.00
Z=Total no. of students appeared in the examination	55.00	103.00	78.00
API [X*(Y/Z)]:	6.15	5.76	8.22

Average API [(AP1 + AP2 + AP3)/3] : 6.71

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	214.00	238.00	281.00
X=No. of students placed	51.00	50.00	122.00
Y=No. of students admitted to higher studies	0.00	4.00	1.00
Z= No. of students taking up entrepreneurship	2.00	0.00	2.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	24.77	22.69	44.48

Average Placement Index = (P_1 + P_2 + P_3)/3: 30.65 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Bhosle Santosh Panditrao	XXXXXXX27C	Ph.D	SRTMU NANDED	Production Engineering	22/03/2011	13.5	Professor	Professor	22/03/2011	Regular	No	21/08/2024	No
2	Dr. Patil Nilesh Ganpatrao	XXXXXXX69N	Ph.D	Dr BATU Lonare	Manufacturing Engineering	17/08/2022	2.10	Professor	Professor	17/08/2022	Regular	Yes		No
3	Dr. Ambad Prashant Mahadev	XXXXXXX79M	Ph.D	IIT Delhi	Production Engineering	01/06/2006	17.5	Lecturer	Professor	01/07/2021	Regular	No	31/10/2023	No
4	Dr. Keche Ashok Jayawantrao	XXXXXXX82C	Ph.D	NIT Warangal	Design Engineering	22/09/2003	21.8	Lecturer	Professor	01/04/2025	Regular	Yes		Yes
5	Mr.Pankade Sandeep Bapusaheb	XXXXXXX67C	M.Tech	IGTR Aurangabad	Tool Design and Manufacturing	03/05/2010	15.1	Associate Professor	Associate Professor	03/05/2010	Regular	Yes		No
6	Dr. Dharmadhikari Hanumant Madhukarrao	XXXXXXX88Q	Ph.D	NIT Warangal	Heat Power	01/09/1992	32.9	Lecturer	Professor	01/04/2025	Regular	Yes		No
7	Dr. Autee Arun Tukaram	XXXXXXX95J	Ph.D	NIT Warangal	Thermal Engineering	31/07/1995	29.10	Lecturer	Associate Professor	01/01/2011	Regular	Yes		No
8	Dr. Kshirsagar Jagdeep Madanrao	XXXXXXX09N	Ph.D	Dr. BAMU Aurangabad	Mechanical Design	02/03/1995	30.3	Lecturer	Associate Professor	01/09/2011	Regular	Yes		No
9	Dr. Kulkarni Kishor Bhaskar	XXXXXXX11B	Ph.D	IIT Rurkee	Thermal Engineering	29/05/2017	5.4	Associate Professor	Associate Professor	29/05/2017	Regular	No	10/10/2022	No
10	Mr. Chidri Vinay Marutrao	XXXXXXX29F	M.E.	DR BAMU Aurangabad	Mechanical Design	15/02/1994	29.7	Lecturer	Associate Professor	01/01/2011	Regular	No	30/09/2023	No
11	Dr Pansare Vivek Balasaheb	XXXXXXX38F	Ph.D	Dr BAMU Aurangabad	Manufacturing	01/01/2015	10.5	Associate Professor	Associate Professor	01/01/2015	Regular	Yes		No
12	Mr. Andhale Sunil Raosaheb	XXXXXXX44J	M.E.	Dr BAMU Aurangabad	CAD/CAM	22/01/2004	21.4	Lecturer	Associate Professor	01/01/2011	Regular	Yes		No
13	Dr. Zine Pankaj Uttamrao	XXXXXXX65M	Ph.D	IIT Delhi	Production	29/09/2022	2.8	Lecturer	Associate Professor	29/09/2022	Regular	Yes		No
14	Dr Nehete Dipak Vishwanath	XXXXXXX86G	Ph.D	IIT Delhi	Mechanical Design	29/09/2022	2.8	Associate Professor	Associate Professor	29/09/2022	Regular	Yes		No
15	Dr Kuthe Chetan Digamber	XXXXXXX55C	Ph.D	VNIT Nagpur	CAD / CAM	17/02/2016	9.3	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr Jadhav Yogesh Gulabrao	XXXXXXX56P	M.E.	Dr BAMU Aurangabad	Production Engineering	26/03/2021	4.2	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mr Sakhare Nitin Mahadeo	XXXXXXX07B	M.E.	DR BAMU Aurangabad	Heat Power	14/07/2016	8.11	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr Kulkarni Shrinath Venkatesh	XXXXXXX66M	M.Tech		CIM	30/01/2016	9.4	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mr Khandelwal Pratik Shankarlal	XXXXXXX07J	M.Tech	VJTI Mumbai	Thermal Engineering	03/08/2015	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mr Lad Pravin Atmaram	XXXXXXX88P	M.Tech	SGBAU Amravati	Production Engineering	31/07/2015	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Mr. Lomte Sachin Vijay	XXXXXXX12Q	M.E.	Dr BAMU Aurangabad	Mechanical Design	15/07/1999	25.11	Lecturer	Associate Professor	01/01/2011	Regular	Yes		No
22	Dr Sayyed Siraj Rafik	XXXXXXX53C	Ph.D	IIT Dhanbad	Thermal Engineering	28/07/2015	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Mr. Gurav Bharat Dattatrya	XXXXXXX62H	M.E.	Dr BAMU Aurangabad	Production Engineering	11/09/2014	10.9	Assistant Professor	Assistant Professor		Regular	Yes		No

24	Mr. Mapari Atmarram Gulabrao	XXXXXXX61C	M.E.	Dr BAMU Aurangabad	Production Engineering	24/02/2014	11.3	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mr. Mohammed Naser Farooqui	XXXXXXX03N	MS	Bleking Institute of Technology Swedan	Design Engineering	29/07/2013	11.10	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Mr Gore Abhay Shivajirao	XXXXXXX97H	M.Tech	SRTMU Nanded	CAD / CAM	31/12/2012	12.5	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Dr Kulkarni Trishul Pandurangrao	XXXXXXX38N	Ph.D	Dr BAMU Aurangabad	Production Engineering	19/09/2011	13.9	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Mr. Borlepwar Prashant Tryambakrao	XXXXXXX29F	M.E.	VJTI Mumbai	Manufacturing	02/09/2011	13.9	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Mr Kulkarni Prashant Shripadrao	XXXXXXX35H	M.E.	Solapur University	Design Engineering	25/06/2009	15.11	Lecturer	Assistant Professor		Regular	Yes		No
30	Mr Charthankar Shantanu Babasaheb	XXXXXXX40J	M.E.	Dr BAMU Aurangabad	Manufacturing	06/08/2007	17.10	Lecturer	Assistant Professor		Regular	Yes		No
31	Mr. Bhivsane Shivaji Vitthal	XXXXXXX15G	M.E.	Dr BAMU Aurangabad	Production	01/08/2007	17.10	Lecturer	Assistant Professor		Regular	Yes		No
32	Mr Kulkarni Santosh Ramchandra	XXXXXXX87D	M.E.	Dr BATU Lonare	Design engineering	25/06/2005	19.11	Lecturer	Assistant Professor		Regular	Yes		No
33	Mr. Gorte Ashok Channabasappa	XXXXXXX18R	B.E.	Gulbarga University	Mechanical Engg	01/09/1998	25.9	Lecturer	Assistant Professor		Regular	No	31/05/2024	No
34	Mr. Targe Suhas Pramod	XXXXXXX94F	M.Tech	IIT Dhanbad	Design engineering	13/07/2018	4.11	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
35	Mr. Palkar Prasad Jaikumarrao	XXXXXXX12F	M.E.	Shivaji University Kolhapur	CAd/ CAM	10/08/2013	10	Assistant Professor	Assistant Professor		Regular	No	26/08/2023	No
36	Mr Jadhav Rahul Madhavrao	XXXXXXX08G	M.E.	Dr BAMU Aurangabad	Production Engineering	20/03/2015	8.8	Assistant Professor	Assistant Professor		Regular	No	04/12/2023	No
37	Mr Antarkar Krushna Ashok	XXXXXXX80D	M.E.	Dr BAMU Aurangabad	Thermal Engineering	13/02/2020	5.4	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Dr Joshi Shravanti Surendra	XXXXXXX50P	Ph.D	RMIT University Australia	Thermal Engineeriing	26/09/2022	1.11	Assistant Professor	Assistant Professor		Regular	No	14/09/2024	No
39	Mr. Kotiye Ganesh Motilal	XXXXXXX73P	M.E.	SPPU University	Metallurgical Engineering	26/09/2022	1.10	Assistant Professor	Assistant Professor		Regular	No	06/08/2024	No
40	Mr Gadekar Avinash Vithalrao	XXXXXXX27P	M.E.	VJTI Mumbai	Mechanical Engineering	26/09/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
41	Mr Gayakwad Milind Dnyanoba	XXXXXXX35G	M.E.	Dr BAMU Aurangabad	CAD/ CAM	26/09/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
42	Mr. Bhatkar Prashant Dnyaneshwar	XXXXXXX87B	M.E.	SRTMU* Nanded	Manufacturing engineering	26/09/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
43	Mr. Kulkarni Mandar Vilas	XXXXXXX48L	M.E.	RGPV Bhopal	Industrial Engineering	26/09/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Ms Dheepa Ravikumar	XXXXXXX04G	M.Tech	NIT Trichy	Energy Engineering	26/09/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
45	Mr Patil Shon Digambar	XXXXXXX73Q	M.E.	Dr BAMU Aurangabad	Design Engineering	26/09/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
46	Mr. Paliwal Ashishkumar Pradeepkumar	XXXXXXX56D	M.E.	SPPU Pune	Energy Engineering	26/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
47	Mr. Damdhar Vinod Shriram	XXXXXXX88H	M.E.	DR BAMU Aurangabad	Manufacturing	26/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
48	Dr Saraf Atul Ramesh	XXXXXXX41R	Ph.D	Dr BATU Lonare	Manufacturing	26/09/2022	1	Assistant Professor	Assistant Professor		Regular	No	26/09/2023	No
49	Dr Chopra Swamini Advait	XXXXXXX00R	Ph.D	VNIT Nagpur	Manufacturing	03/06/2019	5.10	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
50	Mr. Shirwat Ravindranath Janardhan	XXXXXXX77R	M.E.	Dr BAMU Aurangabad	Production Engg	26/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
51	Mr. Bharati Ashok Dattu	XXXXXXX22L	M.E.	Dr BAMU Aurangabad	Production Engg	26/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
52	Mr. Warule Vishal Ramdas	XXXXXXX22E	M.E.	Dr BAMU Aurangabad	Production Engg	26/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
53	Dr. Choudhary Chandan Surendra	XXXXXXX47H	Ph.D	NIT Durgapur	Materials and Metallurgy	01/04/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	23/03/2023	No
54	Mr. Quazi Izharuddin Azeemuddin	XXXXXXX16F	M.E.	Sant Gadgebaba Amravati University Amravati	Production Engineering	01/09/2016	6.6	Assistant Professor	Assistant Professor		Regular	No	18/03/2023	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 Department2 No. of PG Programs in the Department1

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	0	0	0
UG1.C	0	0	0
UG1.D	0	0	0
UG1: Mechatronics Engineering	**0**	**0**	**0**
UG2.B	129	132	66
UG2.C	132	66	120
UG2.D	66	120	120
UG2: Mechanical Engineering	**327**	**318**	**306**
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Mechanical Engineering	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	363	354	342
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=** 363	**S2=** 354	**S3=** 342
DF=Total no. of faculty members in the Department	36	38	33
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=** 36	**F2=** 38	**F3=** 33
FF=The faculty members in F who have a 100% teaching load in the first-year courses	6	5	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 12.10**	**SFR2= 10.73**	**SFR3= 11.03**
Average SFR for 3 years	**SFR= 11.29**		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2024-25(CAY)	11	25	18.00	29.17
2023-24(CAYm1)	13	25	17.00	33.82
2022-23(CAYm2)	10	23	17.00	28.24

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	2.00	1.00	4.00	7.00	12.00	28.00
2023-24	1.00	2.00	3.00	7.00	11.00	29.00
2022-23	1.00	3.00	3.00	5.00	11.00	25.00
Average	RF1=1.33	AF1=2.00	RF2=3.33	AF2=6.33	RF2=11.33	AF2=27.33

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. Rajiv B. Kulkarni	Director Technical	Sanjeev Auto Parts Manufacturing Private limited	Elite Manufacturing Mastery Program	52.00
2	Mr. Pradeep Somani	Director	Abhyuday Education	Career Path Module	20.00
3	Mr. Ajay Wadkar	Aptitude Trainer	Abhyuday Education	Career Path Module	20.00

(CAYm2)

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

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms Arti Bapat	Foreign Language Tutor	.	German Language	26.00
2	Ms Ashvini Mahajan	Foreign Language Tutor	.	German Language	26.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	11	26	14
2	No. of peer reviewed conference papers published	9	4	1
3	No. of books/book chapters published	6	7	7

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
Dr S.S. Joshi		G.S. mandal's MIT Aurangabad	Nano engineeried inprganic halied perovskites for solar based CO2 reduction: Novel artificial photo synthesis implementation for clean energy generation.	DST	Two years	2055900.00
Dr A R Saraf		G.S. mandal's MIT Aurangabad	Development of Micro reacter system for processing of sugarcane juice.	Rajiv Gandhi science & Technology Commission	Three years	14400000.00
						Amount received (Rs.):16455900.00

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 16455900.00

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. P.A.Lad		Mechanical Engineering Department MIT Aurtangabad	SIEMENS Training Program	Siemens Pvt. Ltd.	Two Months	1.50
Dr. A.T. Autee		Mechanical Engineering Department MIT Aurtangabad	District Strategy Plan	Government of Maharashtra	1 year	30.00
						Amount received (Rs.):31.50

(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
Prof. P.J.Palkar		Mechanical Engineering Department MIT Aurtangabad	Siemens Mechatronics System Certification Program Level 1 (SMSCP L1	Siemens Limited	two months	9.94
Dr.P.M.Ambad		MIT Aurangabad	Technology Transfer for Rular Developoment in Tribal areas	Unnant Maharashtra Abhiyan	1 year	33.99
						Amount received (Rs.):43.93

(CAYm3)

Total amount (Lacs) received for the past 3 years: 75.43

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
NIL	NIL	NIL	0.00	0.00	
			Amount received (Rs.): 0.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
NIL	NIL	NIL	0.00	0.00	
			Amount received (Rs.): 0.00		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
NIL	NIL	NIL	0.00	0.00	
			Amount received (Rs.): 0.00		

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

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification

1	Thermal Engineering Laboratory	20	a. Two stage air compressor test rig b. Model of Babcock/ Locomotive boiler c. Models of 2S/4S	12 (4th / 5th S	Mr. S.G. Kadam	Lab Assistant	Diploma in Mechanical E
2	Theory of Machines Laboratory	15	a. Vibration test rig b. Inversions of slider crank mechanism c. Motorized gyroscope d. Different types	8 (6th Semeste	Mr. S.G. Kadam	Lab Assistant	Diploma in Mechanical E
3	Refrigeration and Air conditioning Laboratory	15	a. Air conditioning test rig b. Refrigeration test rig c. Electrolux refrigerator d. Window air conditioner e.	4 (7thSemester	Mr. S.G. Kadam	Lab Assistant	Diploma in Mechanical E
4	Metrology and Mechanical Measurements Laboratory	20	a. Tool Maker's Microscope b. Gear Rolling Tester c. Floating Carriage micrometer d. Pneumatic	12 (3rdSemest	Mr. S.G. Kadam	Lab Assistant	Diploma in Mechanical E
5	Heat Transfer Laboratory	15	a. Pin – Fin apparatus b. Forced convection setup. c. Parallel and counter flow heat exchanger d. Stefan	8 (6thSemester	Mrs. Kalpana M. Sarod	Lab Assistant	B.E. (Mechanical)
6	Research Laboratory	15	a. 48 Lenovo computer systems (Intel core i7/ 1.4 GHz/8Gb ram/ 15.6" monitor) b. ANSYS software	26 (each for 5tl	Mrs. Kalpana M. Sarod	Lab Assistant	B.E. (Mechanical)
7	Metallurgy Laboratory	15	a. Inverted Metallurgical microscope b. Specimen mounting press. c. Jominey hardenability setup	14 (5thSemest	Mrs. Kalpana M. Sarode	Lab Assistant	B.E. (Mechanical)
8	Automatic Control system Laboratory	15	a. Hydraulic trainer circuit b. Pneumatic trainer circuit c. DC motor speed control system d. Stepper	04 (7thSemest	Mrs. Kalpana M. Sarod	Lab Assistant	B.E. (Mechanical)
9	Hydraulic Machines Laboratory	20	a. Pelton wheel turbine Test rig b. Francis turbine Test rig c. Kaplan turbine Test rig d. Gear pump Test rig e.	12 (4rdSemest	Mr. S.G. Kadam	Lab Assistant	Diploma in Mechanical E
10	Internal Combustion Engines Laboratory	15	a. Single cylinder 4- stroke petrol engine test rig b. Single cylinder 4- stroke diesel engine test rig c.	12 (5thSemest	Mr. S.G. Kadam	Lab Assistant	Diploma in Mechanical E
11	Strength of Materials Laboratory	20	a. Universal Testing Machine b. Impact Testing Machine c. Brinell Hardness Tester	12 (3thSemest	Mrs. Kalpana M. Sarode	Lab Assistant	B.E. (Mechanical)
12	Workshop practice Laboratory	20	Fitting Shop a. Bench Vices b. Hacksaw Frame 12'' c. Tri square d. Anvil e. Vernier height gauge Sheet	24 (1st Semes	A.P. Rautrai S.M. Gu	Assistant Instructor A	I.T.I. I.T.I. I.T.I

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Thermal Engineering Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
2	Theory of Machines Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
3	Refrigeration and Air conditioning Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
4	Metrology and Mechanical Measurements Laboratory	• General rules of code of conduct i.e. "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
5	Heat Transfer Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
6	Research Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Do not plug any external devices without scanning for computer viruses.
7	Metallurgy Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's. • Safety hand gloves and goggles are provided to protect from hot components. • Tongs are provided to lift the hot components. • Special instructions are displayed to handle hot components from the furnace. • Students are given protective rubber gloves while handling the chemicals. • Power operated equipments are not operated without safety guards.
8	Automatic Control system Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
9	Hydraulic Machines Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
10	Internal Combustion Engines Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's.
11	Strength of Materials Laboratory	• General rules of code of conduct i.e., "Do's and Don'ts" are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipments are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment's. • Long hairs must be completely covered. • Loose clothing's and jewellery are prohibited.

12	Workshop practice Laboratory	• General rules of code of conduct i.e., “Do’s and Don’ts” are displayed in the laboratory. • Safety instructions are displayed in the laboratory. • One fire extinguisher is kept in the laboratory. • First aid kit containing burnol cream, Betadine ointment, Iodine liquid, Band aid, cotton, Dettol, and binding cloth is kept in the laboratory. • Safety shoes are mandatory in the laboratory. • All the wirings of the equipment are properly insulated to prevent electric shock. • Equipment operating instructions are displaced in case of power operated equipment’s. • Safety hand gloves and goggles are provided to protect during machining and welding. • Tongs are provided to lift the hot components. • Special instructions are displayed to handle hot components from the furnace. • Power operated equipment are not operated without safety guards. • Long hairs must be completely covered. Loose clothing’s and jewellery are prohibited.

D3. Project Laboratory/Research Laboratory

The undergraduate and post graduate Mechanical Engineering students utilise following laboratories and equipment’s for completing their projects.

Sr. No.	Name of the Laboratory	Equipment’s used	Utilisation
1	Project Laboratory	Lathe machine, Drilling Machine, Milling Machine, TIG welding machine, Arc welding machine, Hacksaw blades, Bench vice, Portable Angle grinder, Portable drilling m/c	Fifth, Sixth and seventh semester undergraduate students, PG students for their project work, PBL, EBL work. BAJA and SUPRA students for their ATV manufacturing.
2	Research Laboratory (Materials)	Microhardness tester, Wear testing machine, Cryogenic heat treatment setup including furnace and Nitrogen gas cylinder.	UG, PG and PhD students for their project and research work.
3	Mechatronics Lab (Centre of excellence)	1.S7 300 PLC Training kits with pneumatic press 2. TIA portal V12 software 3. Cube assembly kit 4. PCS 7 Training kit	Mechatronics and PLC programming software training for MIT- SIEMENS program. Practical sessions of UG students.
5	Robotics Laboratory (Centre of excellence)	1. Six axis Kuka Robot with all the attachments. 2. CNC Trainer lathe 3. CNC Trainer milling machine	Sixth and seventh semester undergraduate students, PG students for their research project work.

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
2022-23(CAYm2)	990	50	25	57	63
2023-24(CAYm1)	1110	56	25	56	56
2024-25(CAY)	1110	56	25	57	56

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	29526100	27729646	28532480	26665869	12015093	11229059	6706448	6267708
Library	1500150	1322158	154625	144509	1181622	1104320	804269	751653
Laboratory equipment	20044100	15441849	44349446	41448080	2576549	2407990	2743896	2564389
Teaching and non-teaching staff salary	250000000	231109702	269108779	251501423	293649406	276488591	155805825	145612921
Outreach Programs	589500	534111	185000	177472	170000	198940	120000	87144
R&D	24543400	22039492	15344366	14340529	14770431	13804141	7929394	7410649
Training, Placement and Industry linkage	19055855	1786445	2000000	1971232	1500000	1471506	750000	559578
SDGs	19095445	18565394	1500000	1255035	1500000	1594644	750000	728923
Entrepreneurship	1200000	354000	1200000	1022679	1000000	988453	200000	156974
Others, specify	150000000	139571376	208772401	197468174	185423079	174359000	93312757	89113755
Total	**515554550**	**458454173**	**571147097**	**535995002**	**513786180**	**483646644**	**269122589**	**253253694**

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	1200000	1164800	75000	0	50000	0	0	0

Software	300000	257000	300000	0	50000	0	425000	342200
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	55000	282520	61000	171230	25000	2600	40000	37980
R & D	25000	3600	25000	22000	25000	4500	30000	25630
Industrial Training, Industry expert, Internship	21260	16500	25000	0	25000	0	20000	0
Miscellaneous Expenses*	48025000	43460400	48225000	47822843	55022000	54906886	35742542	33507062
Total	**49626260**	**45184820**	**48711000**	**48016073**	**55197000**	**54913986**	**36257542**	**33912872**