

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechatronics Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 11483	Date of Submission : 05-02-2026

PART A- Profile of the Institute

A1. Name of the Institute : RAJARAMBAPU INSTITUTE OF TECHNOLOGY	
Year of Establishment : 1983/1992	Location of the Institute: Rajaramnagar Islampur
A2. Institute Address :C/O RAJARAMBAPU INSTIUTE OF TECHNOLOGY RAJARAMNAGAR,TAL.WALWA,DIST.SANGLI. PIN 415414	
City:--Select--	State:Maharashtra
Pin Code:415414	Website:www.ritindia.edu
Email:DIRECTOR@RITINDIA.EDU	Phone No(with STD Code):02342-221005
A3. Name and Address of the Affiliating University (if any):	
Name of the University : SHIVAJI UNIVERSITY,KOLHAPUR	City: Kolhpur
State : Maharashtra	Pin Code: 416004
A4. Type of the Institution : Autonomous CAY(2011-17)	
A5. Ownership Status : Self financing	

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

- No. of UG programs: **11**
- 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	Computer Application	PG	Master of Computer Application	2024	--	Computer Application
2	Engineering & Technology	UG	Automotive Technology	1983	2023	Automobile Engineering
3	Engineering & Technology	PG	Automotive Technology	2010	2023	Automobile Engineering
4	Engineering & Technology	UG	Civil Engineering	1983	--	Civil Engineering
5	Engineering & Technology	UG	Computer Engineering	1999	--	Computer Engineering
6	Engineering & Technology	UG	Computer Science & Information Technology	2001	--	Information Technology
7	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Engineering
8	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
9	Engineering & Technology	PG	Construction Management	2010	--	Civil Engineering
10	Engineering & Technology	PG	Design Engineering	1998	--	Mechanical Engineering
11	Engineering & Technology	UG	Electrical Engineering	2004	--	Electrical Engineering
12	Engineering & Technology	UG	Electronics and Telecommunication Engineering	1991	--	Electronics and Telecommunication Engineering
13	Engineering & Technology	PG	Electronics Engineering	2002	--	Electronics and Telecommunication Engineering
14	Engineering & Technology	UG	Food Technology and Management	2022	2023	Food Technology
15	Engineering & Technology	UG	Mechanical Engineering	1987	--	Mechanical Engineering

16	Engineering & Technology	PG	Mechanical Engineering (Thermal Engineering)	2015	--	Mechanical Engineering
17	Engineering & Technology	PG	Mechanical-Manufacturing Engineering	2004	2023	Mechanical Engineering
18	Engineering & Technology	UG	Mechatronics Engineering	2020	--	Mechatronics Engineering
19	Engineering & Technology	PG	Power Systems & Power Electronics	2011	--	Electrical Engineering
20	Engineering & Technology	UG	Robotics and Automation	2023	--	Robotics and Automation
21	Engineering & Technology	PG	Structural Engineering	2004	--	Civil Engineering
22	Management	PG	Master of Business Administration	1994	--	Management
23	Management	PG	MBA (Innovation, Entrepreneurship, and Venture Development)	2021	2025	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
Mechatronics Engineering	Yes	Mechatronics Engineering	UG
Civil Engineering	No	Civil 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)

Allied Department/Cluster Name	Program Name	Program Level
Mechanical Engineering	Design Engineering	PG
Mechanical Engineering	Mechanical Engineering (Thermal Engineering)	PG
Electronics and Telecommunication Engineering	Electronics and Telecommunication Engineering	UG
Mechanical Engineering	Mechanical Engineering	UG
Robotics and Automation	Robotics and Automation	UG
Electronics and Telecommunication Engineering	Electronics Engineering	PG

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/COMP AUTHORITY, DETAILS
1	Mechatronics Engineering	UG	2020 / --	60	No	NA	60	2020	F.No. Western 44642116426/ dated 06/04/2

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	Y A A
1	Electronics and Telecommunication Engineering	Electronics and Telecommunication Engineering	UG	1991 / --	60	Yes	2023	120	2

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	Y A A
Sanctioned Intake for Last Five Years for the Electronics and Telecommunication Engineering									
Academic Year		Sanctioned Intake							
2025-26		120							
2024-25		120							
2023-24		120							
2022-23		60							
2021-22		60							
2020-21		60							
2	Mechanical Engineering	Mechanical Engineering	UG	1987 / --	60	Yes	NA	120	1
3	Mechanical Engineering	Design Engineering	PG	1998 / --	18	Yes	2023	18	2
Sanctioned Intake for Last Five Years for the Design Engineering									
Academic Year		Sanctioned Intake							
2025-26		18							
2024-25		18							
2023-24		18							
2022-23		24							
2021-22		24							
2020-21		24							
4	Mechanical Engineering	Mechanical Engineering (Thermal Engineering)	PG	2015 / --	18	Yes	2023	6	2
Sanctioned Intake for Last Five Years for the Mechanical Engineering (Thermal Engineering)									
Academic Year		Sanctioned Intake							
2025-26		6							
2024-25		6							
2023-24		6							
2022-23		12							
2021-22		18							
2020-21		18							
5	Robotics and Automation	Robotics and Automation	UG	2023 / --	60	Yes	2024	60	2
Sanctioned Intake for Last Five Years for the Robotics and Automation									
Academic Year		Sanctioned Intake							
2025-26		60							
2024-25		60							
2023-24		30							
2022-23		0							
2021-22		0							
2020-21		0							
6	Electronics and Telecommunication Engineering	Electronics Engineering	PG	2002 / --	18	Yes	2023	6	2

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	Y A A
Sanctioned Intake for Last Five Years for the Electronics Engineering									
Academic Year			Sanctioned Intake						
2025-26			6						
2024-25			6						
2023-24			6						
2022-23			12						
2021-22			18						
2020-21			18						

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

A. Name of the HoD :	Dr. Shirguppikar Shailesh Suresh
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	0
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	60	54	40	38	38	0
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	8	12	28	29	34	0
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	9	10	8	8	9	5	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	69	78	74	76	76	77	0

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	60	60	9	115.00
2024-25 (CAYm1)	60	60	10	116.67
2023-24 (CAYm2)	60	54	8	103.33

Average [(ER1 + ER2 + ER3) / 3] = 111.67 ≈ 100

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*=(No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	89.00	94.00	0.00
B=No. of students who graduated from the program in the stipulated course duration	56.00	55.00	0.00
Success Rate (SR)=(B/A) * 100	62.92	58.51	0.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 60.72

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	6.97	6.96	7.26
Y=Total no. of successful students	60.00	49.00	39.00
Z=Total no. of students appeared in the examination	60.00	54.00	40.00
API [X*(Y/Z)]	6.93	6.24	7.03

Average API[(AP1+AP2+AP3)/3] : 6.73

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 2rd year/10)	7.09	7.09	6.90
Y=Total no. of successful students	53.00	58.00	58.00
Z=Total no. of students appeared in the examination	61.00	67.00	73.00
API [X * (Y/Z)]	6.16	6.14	5.48

Average API [(AP1 + AP2 + AP3)/3] : 5.93

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.29	7.12	7.29
Y=Total no. of successful students	58.00	57.00	56.00
Z=Total no. of students appeared in the examination	58.00	58.00	61.00
API [X*(Y/Z)]:	7.29	7.00	6.69

Average API [(AP1 + AP2 + AP3)/3] : 6.99

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	89.00	94.00	0.00
X=No. of students placed	48.00	46.00	0.00
Y=No. of students admitted to higher studies	20.00	9.00	0.00
Z= No. of students taking up entrepreneurship	2.00	1.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	78.65	59.57	0.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 69.11 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)	CAY
1	Dr. Shirguppikar Shailesh Suresh	XXXXXXXX91R	Ph.D	VTU, Belgaum	Mechanical – Production Engineering	01/07/2016	9.7	Assistant Professor	Associate Professor	01/07/2024	Regular	Ye
2	Dr. Desavale Ramchandra Ganpati	XXXXXXXX24P	Ph.D	NIT, Warangal	Mechanical Engineering	01/07/2024	1.7	Associate Professor	Professor	01/07/2024	Regular	Ye
3	Dr. Mandale Maruti Bhagwan	XXXXXXXX19K	Ph.D	NIT, Warangal	Mechanical Engineering	01/07/2024	1.7	Lecturer	Associate Professor	01/07/2024	Regular	Ye
4	Dr. Patil Santosh Ramchandra	XXXXXXXX22G	Ph.D	VTU, Belgaum	Mechanical Engineering	01/07/2024	1.7	Lecturer	Associate Professor	01/07/2024	Regular	Ye
5	Mulla Abid Musa	XXXXXXXX96K	M.E.	Shivaji University, Kolhapur	Mechanical-Production Engineering	09/01/2007	19	Lecturer	Assistant Professor		Regular	Ye
6	Khot Sachin Bhimrao	XXXXXXXX96P	M.Tech	NIT, Trichy	Industrial Engineering	01/11/2014	11.2	Assistant Professor	Assistant Professor		Regular	Ye
7	Dr. Ganachari Vaibhav Sidraya	XXXXXXXX48G	Ph.D	VTU, Belgaum	Mechanical-Production Engineering	01/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Ye
8	Dr. Shinde Prasad Vishwasrao	XXXXXXXX41B	Ph.D	Shivaji University, Kolhapur	Mechanical Engineering	01/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Ye
9	Patil Shweta Sidagounda	XXXXXXXX51A	M.Tech	Shivaji University, Kolhapur	Electronics	01/07/2024	1.7	Assistant Professor	Assistant Professor		Regular	Ye
10	Lavate Shital Appaso	XXXXXXXX60F	M.E.	Shivaji University, Kolhapur	Mechanical Design Engineering	01/07/2024	1.7	Assistant Professor	Assistant Professor		Regular	Ye
11	Kulkarni Akshay Manik	XXXXXXXX53E	M.E.	Savitribai Phule Pune University	Heat Power Engg.	02/12/2020	5.1	Assistant Professor	Assistant Professor		Regular	Ye
12	Mulla Ansar Allauddin	XXXXXXXX29A	M.Tech	Shivaji University, Kolhapur	CAD/ CAM/ CAE	10/06/2025	0.7	Assistant Professor	Assistant Professor		Regular	Ye
13	Deshmukh Shridhar Sampatrao	XXXXXXXX01L	M.E.	Mumbai University	Mechanical CAD CAM Robotics	22/07/2022	3.5	Assistant Professor	Assistant Professor		Regular	Ye
14	Chavan Amol Bajarang	XXXXXXXX71A	M.E.	Shivaji University, Kolhapur	Mechanical-production	14/08/2023	2.5	Assistant Professor	Assistant Professor		Regular	Ye
15	Mulla Juber Mohamadshaphi	XXXXXXXX61N	M.E.	Shivaji University, Kolhapur	VLSI & Embedded Systems	24/11/2023	2.2	Assistant Professor	Assistant Professor		Regular	Ye
16	Dr. Bhosale Amrut Pandurang	XXXXXXXX26Q	Ph.D	Mumbai University	Mechanical Engineering	14/08/2023	1.11	Assistant Professor	Assistant Professor		Regular	N
17	Dr. Gavali Pankaj Balasaheb	XXXXXXXX28G	Ph.D	VTU, Belgaum	Mechanical – Production Engineering	11/08/2023	1.10	Assistant Professor	Assistant Professor		Regular	N
18	Dr. Mohite Shailaja Sanjay	XXXXXXXX30E	Ph.D	Mumbai University	Wireless Communication	21/08/2023	0.9	Assistant Professor	Assistant Professor		Regular	N
19	Bhakte Santoshi Dhanpal	XXXXXXXX97F	M.E.	Shivaji University, Kolhapur	Electronics	01/08/2022	1.11	Assistant Professor	Assistant Professor		Regular	N

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
1	Dr. Kumbhar Samir Bhagwan	XXXXXXXX39P	XXXXXXXX580	Ph.D	Shivaji University, Kolhapur	Design Engineering	16/06/2003	22.7	Assistant Professor	Assistant Professor
2	Dr. Gawade Sanjaykumar Shankarrao	XXXXXXXX53C	XXXXXXXX501	Ph.D	Solapur University	Design Engineering	01/02/1991	35	Assistant Professor	Professor
3	Dr. Patil Sachin Krishnath	XXXXXXXX89J	XXXXXXXX295	Ph.D	SVNIT Surat	Production Engineering	01/07/2004	21.7	Assistant Professor	Professor
4	Dr. Jugulkar Lalitkumar Maikulal	XXXXXXXX65A	XXXXXXXX077	Ph.D	Sant Longowal Institute of Engineering & Technology, Longowal Panjab	Automotive Technology	01/08/2000	25.6	Assistant Professor	Professor
5	Dr. Jalwadi Sudhindra Narayan	XXXXXXXX70J	XXXXXXXX200	Ph.D	IIT, Bombay	Design Engineering	15/01/1997	29	Assistant Professor	Associate Professor
6	Dr. Patil Satyajit Ramchandra	XXXXXXXX19Q	XXXXXXXX689	Ph.D	Shivaji University, Kolhapur	Production Engineering	01/08/2000	25.6	Assistant Professor	Associate Professor
7	Dr. Patil Sharad Dattatray	XXXXXXXX69R	XXXXXXXX857	Ph.D	IIT, Kharagpur	Thermal Engineering	16/06/2005	20.7	Assistant Professor	Associate Professor
8	Dr. Shah Abhijeet Prakash	XXXXXXXX45L	XXXXXXXX413	Ph.D	NIT, Warangal	Thermal Engineering	16/06/2003	22.7	Assistant Professor	Associate Professor
9	Dr. Waghmare Chandan Ananda	XXXXXXXX02E	XXXXXXXX440	Ph.D	VTU, Belgaum	Production Engineering	16/06/2003	22.7	Assistant Professor	Associate Professor
10	Dr. Pisal Mahesh Vasant	XXXXXXXX08Q	XXXXXXXX810	Ph.D	Shivaji University, Kolhapur	Production Engineering	16/08/2005	20.5	Assistant Professor	Assistant Professor
11	Deshpande Mahesh Laxmikant	XXXXXXXX49G	XXXXXXXX392	M.E.	Shivaji University, Kolhapur	Production Engineering	22/12/2008	17.1	Assistant Professor	Assistant Professor
12	Dr. Kadam Sanjay Vasant	XXXXXXXX54J	XXXXXXXX718	Ph.D	Shivaji University, Kolhapur	Thermal Engineering	01/07/2008	17.7	Assistant Professor	Assistant Professor
13	Jadhav Prakash Mohanrao	XXXXXXXX50J	XXXXXXXX195	M.E.	Shivaji University, Kolhapur	Design Engineering	16/06/2003	22.7	Assistant Professor	Assistant Professor
14	Mirza Manzooramahad Mohammadshafi	XXXXXXXX66K	XXXXXXXX614	M.E.	Shivaji University, Kolhapur	Design Engineering	09/02/2004	21.11	Assistant Professor	Assistant Professor
15	Gunjavate Prashant Vilas	XXXXXXXX22H	XXXXXXXX285	M.E.	Shivaji University, Kolhapur	Design Engineering	01/06/2009	16.8	Assistant Professor	Assistant Professor
16	Dr. Jadhav Prashant Sampatrao	XXXXXXXX56E	XXXXXXXX887	Ph.D	VIT, Vellore	Production Engineering	01/12/2014	11.1	Assistant Professor	Assistant Professor
17	Patil Yogesh Sadashiv	XXXXXXXX83F	XXXXXXXX507	M.E.	Shivaji University, Kolhapur	Design Engineering	21/06/2010	15.7	Assistant Professor	Assistant Professor
18	Dr. Kumbhar Sanjay Ramchandra	XXXXXXXX50Q	XXXXXXXX552	Ph.D	IGNOU, New Delhi	Design Engineering	01/03/2007	18.11	Assistant Professor	Assistant Professor

19	Dr. Suryawanshi Ganesh Laxman	XXXXXXXX81F	XXXXXXXXXX032	Ph.D	Shivaji University, Kolhapur	Design Engineering	01/07/2014	11.7	Assistant Professor	Assistant Professor
20	Dr. Magdum Rohit Abhaykumar	XXXXXXXX23K	XXXXXXXXXX355	Ph.D	VIT, Vellore	CAD / CAM	01/07/2014	11.7	Assistant Professor	Assistant Professor
21	Dr. Patil Pratik Ashokrao	XXXXXXXX30A	XXXXXXXXXX868	Ph.D	Shivaji University, Kolhapur	Production Engineering	01/07/2015	10.7	Assistant Professor	Assistant Professor
22	Dr. Jadhav Sachin Parshuram	XXXXXXXX86G	XXXXXXXXXX608	Ph.D	Shivaji University, Kolhapur	Design Engineering	01/01/2025	1	Assistant Professor	Assistant Professor
23	Dr. Pawar Rajendra Vasant	XXXXXXXX85B	XXXXXXXXXX305	Ph.D	Pune University Pune	Design Engineering	14/07/2014	11.6	Assistant Professor	Assistant Professor
24	Pawar Aniket Baburao	XXXXXXXX31A	XXXXXXXXXX436	M.Tech	Shivaji University, Kolhapur	Production Engineering	01/07/2016	9.6	Assistant Professor	Assistant Professor
25	Dr. Desavale Ramchandra Ganpati	XXXXXXXX24P	XXXXXXXXXX646	Ph.D	NIT, Warangal	Mechanical Engineering	18/01/2017	7.5	Associate Professor	Associate Professor
26	Dr. Mandale Maruti Bhagwan	XXXXXXXX19K	XXXXXXXXXX492	Ph.D	NIT, Warangal	Design Engineering	01/08/2000	23.11	Assistant Professor	Assistant Professor
27	Dr. Patil Santosh Ramchandra	XXXXXXXX22G	XXXXXXXXXX482	Ph.D	VTU, Belgaum	Design Engineering	09/01/2002	22.5	Assistant Professor	Assistant Professor
28	Kavade Mukund Vishnu	XXXXXXXX92L	NA	M.E.	Shivaji University, Kolhapur	Production Engineering	25/01/1995	29.4	Assistant Professor	Associate Professor
29	Lavate Shital Appaso	XXXXXXXX60F	XXXXXXXXXX081	M.Tech	Shivaji University, Kolhapur	Design Engineering	01/07/2016	8	Assistant Professor	Assistant Professor
30	Shinde Priya Uday	XXXXXXXX35K	NA	M.E.	Mumbai University	Manufacturing System	29/09/2022	1.10	Assistant Professor	Assistant Professor
31	Patil Ajinkya Krishnarao	XXXXXXXX68R	XXXXXXXXXX285	M.Tech	Pune University Pune	Automotive Technology	01/09/2017	8.4	Assistant Professor	Assistant Professor
32	Chavan Pruthviraj Chandrakant	XXXXXXXX43N	XXXXXXXXXX546	M.Tech	Shivaji University, Kolhapur	Production Engineering	01/09/2017	7.9	Assistant Professor	Assistant Professor
33	Ghanvat Sadanand Mahadeo	XXXXXXXX75M	XXXXXXXXXX381	M.E.	Shivaji University, Kolhapur	CAD CAM CAE	01/07/2025	0.6	Assistant Professor	Assistant Professor
34	Satpute Sanjay Tukaram	XXXXXXXX62H	XXXXXXXXXX463	M.E.	Shivaji University, Kolhapur	Automobile Engineering	01/08/2000	25.6	Assistant Professor	Assistant Professor
35	Dr. Patil Mahadev Satappa	XXXXXXXX76F	XXXXXXXXXX073	Ph.D	Shivaji University, Kolhapur	Power Electronics Wireless Sensor Networks and IOT	01/06/2012	13.8	Professor	Professor
36	Dr. Awati Jayashree Sudhir	XXXXXXXX27Q	XXXXXXXXXX585	Ph.D	VTU, Belgaum	Wireless Communication Soft Computing	01/03/2006	19.11	Assistant Professor	Assistant Professor
37	Dr. Kakade Anandrao Bajirao	XXXXXXXX21B	XXXXXXXXXX254	Ph.D	IIT, Kharagpur	RF and Microwave Engineering Analog Signal Processing	20/06/2005	20.7	Assistant Professor	Professor
38	Dr. Kumbhar Mahesh Shivaji	XXXXXXXX97L	XXXXXXXXXX724	Ph.D	Shivaji University, Kolhapur	Wireless Sensor Network Biomedical Signal Processing	01/02/1996	30	Assistant Professor	Associate Professor
39	Patil Ramesh Tukaram	XXXXXXXX82J	XXXXXXXXXX675	M.E.	Shivaji University, Kolhapur	Embedded System VLSI Signal Processing	15/01/1997	29	Assistant Professor	Assistant Professor
40	Dr. Jagtap Satyawan Ramchandra	XXXXXXXX98B	XXXXXXXXXX063	Ph.D	Shivaji University, Kolhapur	Power Electronics	15/01/1997	29	Assistant Professor	Associate Professor

41	Dr. Patil Vilabha Sachin	XXXXXXXX55H	XXXXXXXXXX370	Ph.D	Shivaji University, Kolhapur	Embedded System VLSI Design	01/07/2005	20.7	Assistant Professor	Assistant Professor
42	Dr. Pawar Sanjay Shamrao	XXXXXXXX98A	XXXXXXXXXX915	Ph.D	Shivaji University, Kolhapur	Embedded System IOT Cryptography	10/07/2025	0.6	Associate Professor	Associate Professor
43	Kamerikar Umesh Ashok	XXXXXXXX92F	XXXXXXXXXX561	M.E.	Shivaji University, Kolhapur	Power Electronics Control System	01/07/2016	9.7	Assistant Professor	Assistant Professor
44	More Prabhanjan Pradipkumar	XXXXXXXX22P	XXXXXXXXXX770	M.Tech	Shivaji University, Kolhapur	Image Processing Digital Electronics Communication	17/02/2017	8.11	Assistant Professor	Assistant Professor
45	Patil Randhir Jagannath	XXXXXXXX06C	XXXXXXXXXX948	M.Tech	Shivaji University, Kolhapur	Image Processing Embedded System Design	01/08/2018	7.5	Assistant Professor	Assistant Professor
46	Watharkar Snehal Rangarao	XXXXXXXX73J	XXXXXXXXXX870	M.Tech	Savitribai Phule Pune University	VLSI Embedded System	25/07/2022	3.6	Assistant Professor	Assistant Professor
47	Bendre Priyanka Gajanan	XXXXXXXX64C	XXXXXXXXXX648	M.E.	Shivaji University, Kolhapur	Image Processing Deep Learning	13/09/2022	3.4	Assistant Professor	Assistant Professor
48	Dr. Khade Vishnu Chandrakant	XXXXXXXX77C	XXXXXXXXXX032	Ph.D	Savitribai Phule Pune University	Communication Engineering	11/03/2023	2.10	Assistant Professor	Assistant Professor
49	Kadam Atul Ashok	XXXXXXXX79K	XXXXXXXXXX459	M.E.	Shivaji University, Kolhapur	Embedded System	01/10/2024	1.3	Assistant Professor	Assistant Professor
50	Kulkarni Chaitanya Anil	XXXXXXXX81Q	XXXXXXXXXX677	M.Tech	Shivaji University, Kolhapur	VLSI Power Electronics Embedded	01/07/2025	0.6	Assistant Professor	Assistant Professor
51	Mali Dhanashri Madan	XXXXXXXX77P	XXXXXXXXXX769	M.Tech	Shivaji University, Kolhapur	Digital Electronics Image Processing	01/07/2025	0.6	Assistant Professor	Assistant Professor
52	Waghmare Sapana Shivaji	XXXXXXXX81L	XXXXXXXXXX246	M.Tech	COEP Tech Pune	Wired and Wireless Communication Antenna Wave Propagation	19/08/2025	0.5	Assistant Professor	Assistant Professor
53	Jadhav Ketaki Ajinkya	XXXXXXXX94R	XXXXXXXXXX424	M.Tech	Savitribai Phule Pune University	Signal Processing	01/08/2022	2.10	Assistant Professor	Assistant Professor
54	Dr. Mohite Shailaja Sanjay	XXXXXXXX30E	NA	Ph.D	Mumbai University	Image Processing	21/08/2023	1.10	Assistant Professor	Assistant Professor
55	Nishandar Arati Siddhanath	XXXXXXXX46M	NA	M.E.	Shivaji University, Kolhapur	Embedded System	01/10/2022	1.11	Assistant Professor	Assistant Professor
56	Dr. Desai Sandeep Rangrao	XXXXXXXX91M	XXXXXXXXXX795	Ph.D	Savitribai Phule Pune University	Flow Induced Vibration, Outcome Based Education & Quality Circles	04/07/2005	20.7	Assistant Professor	Associate Professor
57	Dr. Shinde Rajaram Madhukar	XXXXXXXX60J	XXXXXXXXXX945	Ph.D	Shivaji University, Kolhapur	Composite Materials	08/07/2002	23.6	Assistant Professor	Assistant Professor
58	Dr. Ghatage Pankaj Shamrao	XXXXXXXX83M	XXXXXXXXXX386	Ph.D	VIT, Vellore	Composite Structures	01/07/2013	12.7	Assistant Professor	Assistant Professor
59	Dr. More Supriya Sagar	XXXXXXXX19Q	XXXXXXXXXX992	Ph.D	VTU, Belgaum	Heat Transfer & Solar Energy	15/06/2012	13.7	Assistant Professor	Assistant Professor
60	Dr. A Sujil	XXXXXXXX90K	NA	Ph.D	NIT Jaipur	Electronics	01/02/2021	5	Assistant Professor	Assistant Professor
61	Patil Utkal Suresh	XXXXXXXX59M	XXXXXXXXXX669	M.Tech	VTU, Belgaum	Engineering Analysis & Design	01/10/2024	1.4	Assistant Professor	Assistant Professor
62	Vairat Abhishek Maruti	XXXXXXXX40E	XXXXXXXXXX619	M.Sc. (Engineering)	Queen Mary University of London	Advanced Robotics	14/07/2025	0.6	Assistant Professor	Assistant Professor

63	Patil Rohit Babasaheb	XXXXXXXX62L	XXXXXXXX442	M.Tech	VIT, Vellore	Mechatronics	14/07/2025	0.6	Assistant Professor	Assistant Professor
64	Vatkar Monika Nitin	XXXXXXXX43E	XXXXXXXX219	M.E.	Shivaji University, Kolhapur	Electronics & Telecommunication	06/08/2025	0.5	Assistant Professor	Assistant Professor
65	Dr. Thombare Dhananjay Ganapati	XXXXXXXX83Q	NA	Ph.D	Shivaji University, Kolhapur	ICE	09/01/1991	33	Assistant Professor	Professor
66	Dr. Yadav Sanjay Dnyanu	XXXXXXXX90R	NA	Ph.D	Solapur University	Vehicle Dynamics	01/07/1986	37.6	Assistant Professor	Professor
67	Suryawanshi Aniket Tanaji	XXXXXXXX35D	NA	M.Tech	Mumbai University	Thermal Engineering	14/07/2014	8.11	Assistant Professor	Assistant Professor

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 Department4 No. of PG Programs in the Department3

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Mechatronics Engineering	198	198	198
UG2.B	66	33	0
UG2.C	33	0	0
UG2.D	0	0	0
UG2: Robotics and Automation	99	33	0
UG3.B	132	132	132
UG3.C	132	132	132
UG3.D	132	132	132
UG3: Mechanical Engineering	396	396	396
UG4.B	132	132	66
UG4.C	132	66	66
UG4.D	66	66	66
UG4: Electronics and Telecommunication Engineering	330	264	198
DS=Total no. of students in all UG and PG programs in the Department	198	198	198
AS=Total no. of students of all UG and PG programs in allied departments	885	753	672
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 1083	S2= 951	S3= 870
DF=Total no. of faculty members in the Department	15	16	12
AF= Total no. of faculty members in the allied Departments	54	46	53
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 69	F2= 62	F3= 65
FF=The faculty members in F who have a 100% teaching load in the first-year courses	8	8	8
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 17.75	SFR2= 17.61	SFR3= 15.26
Average SFR for 3 years	SFR= 16.87		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	35	34	53.00	22.92
2024-25(CAYm1)	33	29	46.00	24.24
2023-24(CAYm2)	27	38	42.00	25.12

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	5.00	6.00	11.00	12.00	35.00	51.00
2024-25	5.00	6.00	10.00	10.00	31.00	46.00
2023-24	4.00	5.00	9.00	7.00	28.00	53.00
Average	RF1=4.67	AF1=5.67	RF2=10.00	AF2=9.67	RF2=31.33	AF2=50.00

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. Yashodhan Patil	Professor of Practice	RIT	Capstone Project, Entrepreneurship Development, Undergraduate Research Track	64.00
2	Dr. Dilip Patwardhan	Visiting Faculty	RIT	Interpersonal Skills	96.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Dilip Patwardhan	Visiting Faculty	RIT	Interpersonal Skills	96.00

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	18	15	12
2	No. of peer reviewed conference papers published	17	6	6
3	No. of books/book chapters published	3	0	0

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Prof. A. M. Mulla	Prof. Shridhar Deshmukh	Mechatronics Engg	Automatic weld grinding robot for piping application	RGSTC	4 Year	2000000.00
						Amount received (Rs.):2000000.00

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 2000000.00

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
Dr. R. G. Desavale		Mechatronics Engg.	Thickness Testing of boiler spear parts	Rajarambapu Patil Sahakari Sakhar Karkhana Ltd, Sakharale.	1 Month	0.37
Dr. Vaibhav Ganachari	Prof. Akshay M Kulkarni	Mechatronics Engg.	Ultrasonic Testing of shafts	Rajarambapu Patil Sahakari Sakhar Karkhana Ltd, Karandwadi	1 Month	2.45
Dr. Prasad V Shinde	Mr. Sachin Shinde	Mechatronics Engg.	Ultrasonic testing of mill & boiler Parts	Yashwantrao Mohite Krishna Sahakari Sakhar Karkhana Ltd	1 Month	0.20
Dr. Vaibhav Ganachari		Mechatronics Engg.	Boiler Inspection	Dharashiv Sahakari Sakhar Karkhana Unit -4 Waki Shivane (Sangola)	1 Month	0.32
Dr. Vaibhav Ganachari		Mechatronics Engg.	NDT analysis	Kumbhi Kasari Sahakari Sakhar Karkhana Kuditre	15 Days	1.73
Dr. R. G. Desavale	Dr. Prasad V Shinde	Mechatronics Engg.	Ultrasonic & Dye Penetration Testing of Shafts	Shri. Vitthal Sahakari Sakhar Karkhana Ltd, Pandharpur	1 Month	1.80
Dr. Vaibhav Ganachari		Mechatronics Engg.	Ultrasonic Testing of boiler Chimney	Godrej Agrovet Ltd	2 Month	0.11
Prof. Akshay M Kulkarni		Mechatronics Engg.	Ultrasonic & Dye Penetrant testing of Equipment.	Dalmiya Bharat Sugar and Industries Ltd	2 Month	0.25
Dr. R. G. Desavale		Mechatronics Engg.	Ultrasonic testing of boiler Parts	Viraj Canes & Allied Energy Group	2 Month	0.09
Dr. Vaibhav Ganachari		Mechatronics Engg.	Boiler Inspection	Dr. D. Y Patil Sahakari Sakhar Karkhana Ltd.	2 Month	0.24
Dr. R. G. Desavale		Mechatronics Engg.	Ultrasonic testing of shafts	Martand Natural Sweeteners Ltd	15 Days	0.08
Dr. R. G. Desavale		Mechatronics Engg.	Ultrasonics testing of motor shafts	Martand Natural Sweeteners Limited	5 Days	0.04
Dr. Vaibhav Ganachari		Mechatronics Engg.	Thickness Testing of boiler spear parts	Padmashri Dr D Y Patil Sahakari Sakhar Karkhana Ltd; Dnyanshantinagar	15 days	1.24
Dr. Vaibhav Ganachari		Mechatronics Engg.	Boiler IBR Inspection	Kumbhi Kasari Sahakari Sakhar Karakhana Ltd Kuditre	2 Days	1.77
Dr. Prasad V Shinde		Mechatronics Engg.	Ultrasonic & Dye Penetration Testing of Shafts	Mohanrao Shinde Sahakari Sakhar Karkhana Limited	4 Days	0.25
Prof. Akshay M Kulkarni	Mr. Sachin Shinde	Mechatronics Engg.	Boiler Inspection	Dharashiv Sakhar Karkhana	2 days	0.41
Dr. R. G. Desavale	Mr. Sachin Shinde	Mechatronics Engg.	NDT analysis	Dharashiv Sakhar Karkhana	5 Days	0.43
Dr. Vaibhav Ganachari		Mechatronics Engg.	Boiler Inspection	Dharashiv Sakhar Karkhana	5 Days	0.35
Prof. Akshay M Kulkarni	Mr. Sachin Shinde	Mechatronics Engg.	Ultrasonic Testing of boiler Chimney	Herms Distillery Private Limited	1 day	0.31
Dr. Vaibhav Ganachari		Mechatronics Engg.	Boiler Inspection	Mp Engineering Services	5 days	0.41
Dr. Prasad V Shinde	Dr. Vaibhav Ganachari	Mechatronics Engg.	Thickness Testing of boiler spear parts	Vishwasrao Naik Sahakari Sakhar Karkhana Ltd	10 Days	1.18
						Amount received (Rs.): 14.03

(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
Dr. V. S. Ganachari		Mechatronics Engg.	Boiler Inspection	Shree Vitthal Sahkari Sakhar Karkhana,Pandahrpur	1 Month	1.38
Dr. Prasad V Shinde		Mechatronics Engg.	Boiler Inspection	Pad.DYP Sahkari Sakhar Karkhana, Kolhapur	1 Month	0.47
Dr. V. S. Ganachari		Mechatronics Engg.	Ultrasonic Testing of Shaft and Gears	Dutta India Sugars Pvt.Ltd. Sangli	1 Month	0.70
Dr. V. S. Ganachari		Mechatronics Engg.	Ultrasonic Testing of Shaft and Gears	Indian Sugar Manufacturing Chadchan	1 Month	0.48
Dr. Prasad V Shinde		Mechatronics Engg.	Ultrasonic Testing of Shaft and Gears	Dutta India Sugars Pvt.Ltd. A/p. Sakharwadi, Tal. Phaltan	1 Month	0.36
Dr. V. S. Ganachari		Mechatronics Engg.	Boiler Inspection	Sangola Sahkari Sakhar karkhana, Sangola.	1 Month	0.35
Dr. Prasad V Shinde	Dr. V. S. Ganachari	Mechatronics Engg.	Ultrasonic Testing of Shaft and Gears	Rajarambapu Patil Sahkari Sakhar Karkhana Ltd.Karandwadi	1 Month	0.45
Prof. Akshay M kulkarni		Mechatronics Engg.	Boiler Inspection	Rajarambapu Patil Sahkari Sakhar Karkhana Ltd.Karandwadi	1 Month	0.47
Dr. V. S. Ganachari		Mechatronics Engg.	Ultrasonic Testing of Shaft and Gears	Rajarambapu Patil Sahkari Sakhar Karkhana Ltd.Jath	1 Month	1.03
Dr. V. S. Ganachari		Mechatronics Engg.	Boiler Inspection	Rajarambapu Patil Sahkari Sakhar Karkhana Ltd.Jath	1 Month	0.53
Prof. Akshay M Kulkarni	Dr. V. S. Ganachari	Mechatronics Engg.	Ultrasonic Testing of Shaft and Gears	Dharashiv Sahkari Sakhar karkhana, Osmanabad	1 Month	0.79
Dr. V. S. Ganachari		Mechatronics Engg.	Boiler Inspection	Viraj Cane Alasand Palus	1 Month	0.07
Dr. V. S. Ganachari		Mechatronics Engg.	Boiler Inspection	Nirani Sugars, Daund, Indapur	1 Month	0.46
Prof. Akshay M Kulkarni		Mechatronics Engg.	Ultrasonic Thickness Testing	Mohanrao Sugars,Arag Miraj	1 Month	0.22
Dr. V. S. Ganachari		Mechatronics Engg.	Boiler Inspection	Godrej Agro Vet Ltd. MIDC-Miraj	1 Month	0.11
Dr. V. S. Ganachari	Mr. Sachin Shinde	Mechatronics Engg.	Boiler Inspection	JN Sugars Mudhol	1 Month	0.11
Dr. V. S. Ganachari	Mr. Sachin Shinde	Mechatronics Engg.	Boiler Inspection	Renuka Sugars kolvi	10 Days	0.14
						Amount received (Rs.):8.12

(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
Dr. Prasad V Shinde		Mechatronics Engg.	Vibration Analysis and Balancing	S.S.Vasantrao Kale Sahkari SakharKarkhana,Pandharpur	25 Days	1.14
Dr. V. S. Ganachari		Mechatronics Engg.	NDT Analysis and Boiler Inspection	Rajgad Sahkari Sakhar Karkhana,Bhor-Pune	15 Days	0.63
Dr. S. S. Deshmukh		Mechatronics Engg.	Design and Fabrication of Aerator for 3HP water Pump, Site Visit and training.	Aniruddha Bhagirath Patil, Satana, Nashik	7 Days	0.21
Prof. S. S. Deshmukh		Mechatronics Engg.	Aerators for increasing Oxygen Level in Fish Pond	Vijay Mali, A/p Kuchi, Kavatemahnkal	5 Days	0.08
						Amount received (Rs.):2.06

Total amount (Lacs) received for the past 3 years: 24.21

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Prof. A. M. Kulkarni	Study of dynamic modeling and vibration characteristics of rotor bearing system	12 Month	0.30	0.30	Research Article
Dr. Pankaj Gavali	Development of a Humanoid Robot for Enhanced Human Interaction and Assistance	12 Months	0.40	0.40	Demonstration Model
Dr. Shailesh Shirguppikar	Automated Storage and Retrieval System	12 Months	0.40	0.40	Patent
Dr. Shailesh Shirguppikar	Study of ECM machining of hard to machine Inconel 718	12 Months	0.30	0.30	Research Article
Prof. Amol Bajrang Chavan	Corrosion Behavior and Biocompatibility of HA Coated Magnesium Based Biodegradable Medical Implants	12 Months	0.25	0.25	Research Article
			Amount received (Rs.): 1.65		

(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
Dr. Vaibhav Sidraya Ganachari	Advanced Optimization Technique at MNIT, Jaipur	5 Days	0.02	0.02	Attended the five days online mode workshop on Advanced Optimization Technique at MNIT, Jaipur
Dr. Shailesh S. Shirguppikar	Advanced Optimization Technique at MNIT, Jaipur	5 Days	0.02	0.02	Attended the five days online mode workshop on Advanced Optimization Technique at MNIT, Jaipur
Mr. Pankaj B. Gavali	Advanced Optimization Technique at MNIT, Jaipur	5 Days	0.02	0.02	Attended the five days online mode workshop on Advanced Optimization Technique at MNIT, Jaipur
Mr. Sachin B. Khot	Advanced Optimization Technique at MNIT, Jaipur	5 Days	0.02	0.02	Attended the five days online mode workshop on Advanced Optimization Technique at MNIT, Jaipur
Mr. Amrut Pandurang Bhosale	International Conference on Science, Engineering Management and Information Technology (SEMIT 2023)	1 Day	0.10	0.10	Paper Presentation at International Conference on Science, Engineering Management and Information Technology (SEMIT 2023)
			Amount received (Rs.): 0.18		

(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
Mr. Sachin B. Khot	FDP on "Design Thinking for IDEA Labs" at COEP Technological University, Pune	7 Days	0.20	0.20	attended the FDP on "Design Thinking for IDEA Labs" at COEP Technological University, Pune with Mr. Sachin S. Kumbhar held on 11 - 17 May 2023
			Amount received (Rs.): 0.20		

Total amount (Lacs) received for the past 3 years : 2.03

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

D3. Project Laboratory/Research Laboratory

1. CKD Centre of Excellence:

The Department of Mechatronics signed an MOU with CKD India for technical support and student training. To achieve this aim, the lab is equipped with a Smart Manufacturing Station, a PLC Trainer Kit with Dynamic Models, a Pneumatic Trainer with Industry 4.0 Kits, a Hydraulic Trainer, and a Mechatronics Training Station. The lab also offers additional features, including PLC programming, pneumatic and hydraulic actuation, electro-mechanical control, mechatronics system integration, IIoT, and HMI capabilities.

To maintain the lab equipment and assist the trainers, we have one skilled supporting staff member, Mr. Sachin B. Shinde, a lab assistant, who holds a diploma in E&TC. As compared with the other lab, the strength of this lab facility is that it has modern automation modules aligned with current manufacturing and process industry requirements. It supports Industry 4.0 technologies. The total investment of this facility is 8006061.10/-. The photograph of the facility is shown below in Figure 1.

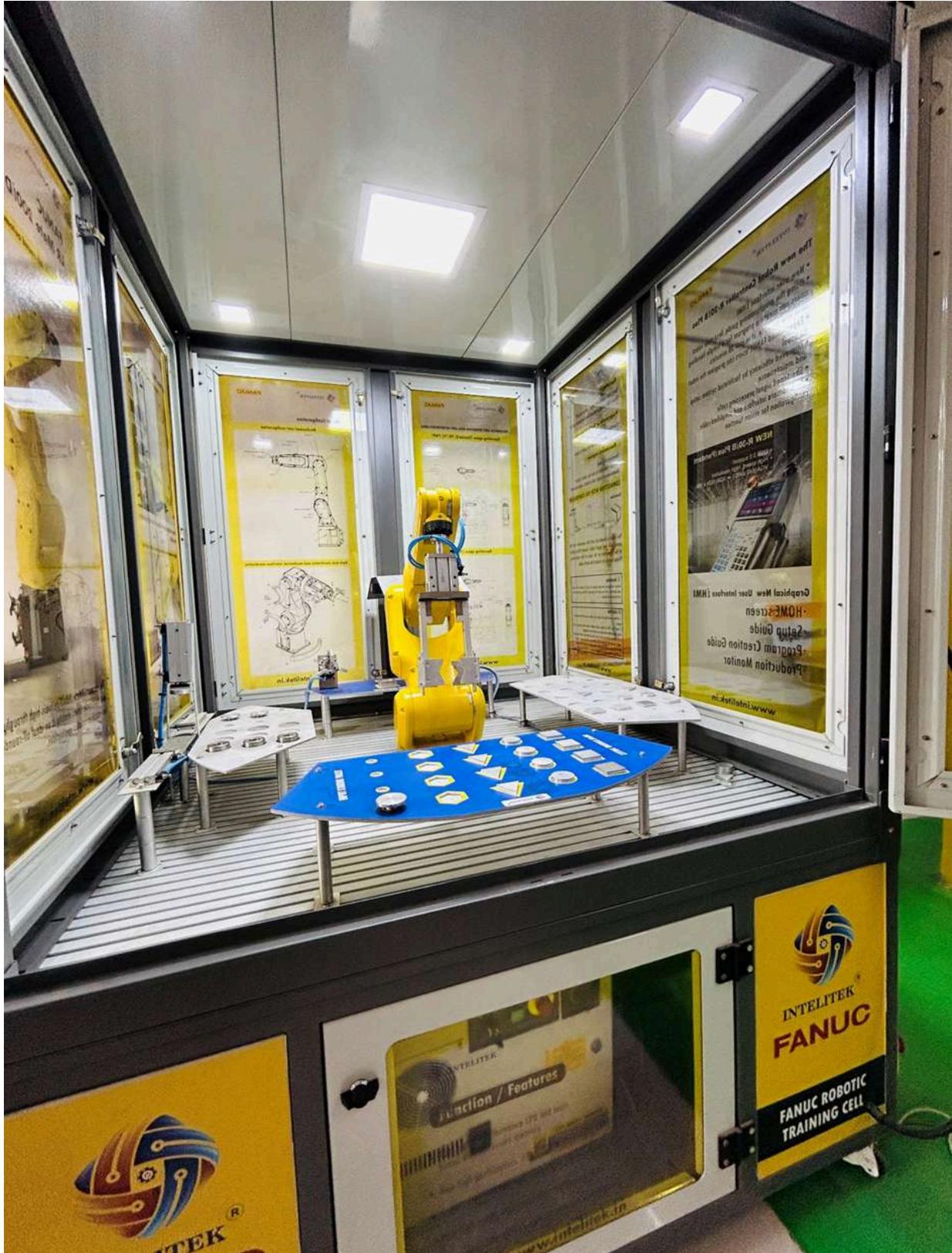


Fig. 1: 6-Axis Robot Cell

2. Fanuc Centre of Excellence:

This is the second centre of excellence facility provided by the mechatronics engineering department. The major lab equipment available in this lab is: 7-Axis Robot (Handling/Welding), 6-Axis Industrial Robot (FANUC), UPS 3 kVA Online, and Robotic Simulation Software. The main aim of this facility is to support Industry 4.0 skill development in robotic manipulation, welding automation, and industrial automation integration. The lab is

equipped with high-end industrial robots to ensure students gain real-world robotic operation and programming experience. To maintain the lab facility and to help the trainer, one lab assistant is always working with the students and the trainers, Mr. Suhas A. Jadhav. His qualification is BE Mechanical. The total investment cost for this entire lab facility is 9221566.95 /-. Some photographs of the lab facility are added below in Figure 2 and Figure 3 .



Fig. 2: Smart Factory Setup



Fig. 3: Hydraulic Setup

3. Project Lab:

A well-established project lab facility is provided by the mechatronics engineering department. This project lab included some major equipment's are 3D Printer, Grinder, Cutter, Screw Driver Sets, Bench Voice, File, Soldering Gun, etc. This lab facility is completely utilized by the students of the mechatronics engineering department. Students are making different projects and prototyping. With the help of that, they will file the patents. The cost of this facility is 320000. List of the lab is as follows-

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence.

Sr. No.	Name of the Laboratory
1	CKD Centre of Excellence
2	Fanuc Centre of Excellence
3	Project Lab

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	720	36	18	21	52
2024-25(CAYm1)	780	39	24	21	60
2025-26(CAY)	840	42	24	21	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 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	40357910	39851061	44490600	30400202	27265500	25296200	29168950	31529263
Library	4694000	4459620	4610000	5017918	4345000	3906857	4800000	4410306
Laboratory equipment	8381540	7523108	8205000	12182857	10880000	3511402	20820000	24351337
Teaching and non-teaching staff	294671000	257576223	269533000	255841193	273690000	233051419	237328000	229265485
Outreach Programs	5000	5000	59111	59111	5000	5000	29446	29446
R&D	9582500	4097104	4500000	5891475	2200000	2842057	3000000	2911074
Training, Placement and	7226200	4936980	3925000	4154141	5600000	7435371	5500000	6538293
SDGs	104100	104100	468150	468147	396630	394275	198710	195549
Entrepreneurship	160000	12970	100000	139196	150000	127845	200000	130642
Others, specify	106583625	82588464	78154739	93417298	67894370	69531561	81812144	71421768
Total	471765875	401154630	414045600	407571538	392426500	346101987	382857250	370783163

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	4200000.00	57600.00	7050000.00	6775584.00	11710000.00	11655676.00	34520000.00	34371278.00
Software	0	0	230000.00	108166.00	100000.00	115963.00	300000.00	111458.00
SDGs	0	0	66297.00	66297.00	0.00	0	0	0
Support for faculty development	380000.00	296426.00	43000.00	53425.00	70000.00	65776.00	20000.00	0
R & D	652000.00	52700.00	14000.00	10000.00	490000.00	518059.00	10000.00	0
Industrial Training, Industry expert,	150000.00	64087.00	20000.00	125681.00	20000.00	19576.00	20000.00	0
Miscellaneous Expenses*	532000.00	322941.00	151703.00	536154.00	110000.00	84250.00	130000.00	69433.00
Total	5914000.00	793754.00	7575000.00	7675307.00	12500000.00	12459300.00	35000000.00	34552169.00