

NATIONAL BOARD OF ACCREDITATION

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

PART A- Profile of the Institute

Name of the Program Applied for: B. Tech. in Mechanical Engineering

A1 Name of Institute: - Swami Keshvanand Institute of Technology, Management & Gramothan
Year of Establishment: - 2000 Location of the Institute:- Jaipur, Rajasthan

A2 Institute Address:- Ramnagar, Jagatpura
City:- Jaipur State:- Rajasthan
Pin Code:- 302017 Website:- www.skit.ac.in
E-mail:- info@skit.ac.in Phone No (with STD Code):- 0141-3500300

A3. Name and Address of the Affiliating University: -

Name of the University: Rajasthan Technical University City : Kota
State: Rajasthan Pin Code: 324010

A4. Type of the Institution: - (Tick the applicable choice)

Institute of National Importance	☐	Deemed University	☐
University	☐	Autonomous	☒
Non-Autonomous (Affiliated)	☒	Any other (Please specify) *	☐

***Provide Details:** Granted autonomy from session 2024-25.

A5. Ownership Status: - (Tick the applicable choice)

Central Government	☐	State Government	☐
Government Aided	☐	Self-financing	☒
Any Other (Please specify) *	☐	*Provide Details: _____	

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

- ❖ No. of UG programs: 9
- ❖ No. of PG programs: 6

Table No. A6.1: List of all programs offered by the Institute.

S.N.	Level of program (UG/PG)	Name of the program	Year of Start	Year of close*	Name of the Department
1	UG	B.Tech. (Computer Science and Engineering)	2000-01	NA	Computer Science & Engineering
2	UG	B.Tech. (Electronics & Communication Engineering)	2000-01	NA	Electronic and Communication Engineering
3	UG	B.Tech. (Electrical Engineering)	2000-01	NA	Electrical Engineering
4	UG	B.Tech. (Information Technology)	2000-01	NA	Information Technology
5	UG	B.Tech. (Mechanical Engineering)	2003-04	NA	Mechanical Engineering
6	UG	B.Tech. (Civil Engineering)	2011-12	NA	Civil Engineering
7	UG	B.Tech. (Computer Science and Engineering (Artificial Intelligence))	2020-21	NA	Computer Science & Engineering
8	UG	B.Tech. (Computer Science and Engineering (Data Science))	2021-22	NA	Computer Science & Engineering
9	UG	B.Tech. (Computer Science and Engineering (IoT))	2022-23	NA	Computer Science & Engineering
10	PG	M. Tech. (Computer Science)	2008-09	NA	Computer Science & Engineering
11	PG	M. Tech. (Digital Communications)	2008-09	NA	Electronic and Communication Engineering
12	PG	M. Tech. (Power Systems)	2009-10	NA	Electrical Engineering
13	PG	MBA	2010-11	NA	Management Studies
14	PG	M. Tech. (Renewable Energy)	2014-15	NA	Mechanical Engineering
15	PG	M. Tech. (Transportation Engineering)	2019-20	NA	Civil Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Cluster ID.	Name of the Department	Name of the Program
1.	Mechanical Engineering	B. Tech. (Mechanical Engineering)

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)
NIL	-	-

PART B- Program information

(Data to be filled for the program applied for Accreditation)

B1. Provide the Required Information for the Program Applied For: -

Table No. B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/decrease in intake, if any	Year of increase/decrease	AICTE Approval Details	Accreditation Status*	No. of Times program accredited
1.	B. Tech. (Mechanical Engg.)	2003-04	60	60	2010-11	North-West/1-6015551/2010/EOA dated Aug. 23, 2010	Granted accreditation for 3 years (July, 2022 to June, 2025)	5
				60	2012-13	North-West/1-721479354/2012/EOA dated May 10, 2012		
				60	2015-16	North-West/1-2454596430/2015/EOA dated April 07, 2015		
				-60	2021-22	North-West/1-9323253234/2021/EOA		
				-120	2022-23	North-West/1-10973717526/2022/EOA		

* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)
- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

B2.2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD : Prof. Dheeraj Joshi

B. Nature of appointment: (Tick the applicable choice)

- ❖ Regular ☒
- ❖ Contract ☐
- ❖ Ad hoc ☐

C. Qualification: (Tick the applicable choice)

- ❖ Ph.D. ☒
- ❖ ME/M.Tech. ☐
- ❖ Any other* ☐

*Please provide details: _____

B3: Program Details

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

Item (Information is to be provided cumulatively for the shifts with explicit headings, wherever applicable)	CAY 24-25	CAYm1 2023-24	CAYm2 2022-23	CAYm3 2021-22	CAYm4 (LYG) 2020-21	CAYm5 (LYGm1) 2019-20	CAYm6 (LYGm2) 2018-19
N = Sanctioned intake of the program (as per AICTE/Competent authority)	60	60	60	180	240	240	240
N1 = Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	38	48	41	24	76	152	174
N2 = Number of students admitted in 2 nd year in the same batch via lateral entry including leftover seats	0	1	3	1	2	6	6
N3 = Separate division if any	NA	NA	NA	NA	NA	NA	NA
N4 = Total no. of students admitted in the 1 st year via all supernumerary quotas	5	4	1	00	12	15	10
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	43	53	45	25	90	173	190

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.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1 and CAYm2))	CAY (2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
N= Sanctioned intake of the program in the 1 st year (as per AICTE/Competent authority)	60	60	60
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/institutions plus no. of students, who migrated to this program	38	48	41
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	5	4	1
Enrolment Ratio (ER)= (N1+N4)/N	0.72	0.87	0.7
Average ER= (ER_1+ ER_2+ ER_3)/3	0.76		

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	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
A*= (No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd 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).	242	246	246
B=No. of students who graduated from the program in the stipulated course duration	55	125	173
Success Rate (SR)= (B/A)*100	22.72	50.81	70.32
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	47.95		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No. B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2).

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 Batch (2023-27)	CAYm2 2022-23 Batch (2022-26)	CAYm3 2021-22 Batch (2021-25)
X= (Mean of 1 st 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 1 st year/10)	6.96	6.48	7.29
Y= Total no. of successful students	52	42	24
Z = Total no. of students appeared in the examination	52	42	24
API = X* (Y/Z)	6.96	6.48	7.29
Average API = (API_1 + API_2 + API_3)/3	6.91		

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 Batch (2022-26)	CAYm2 2022-23 Batch (2021-25)	CAYm3 2021-22 Batch (2020-24)
X= (Mean of 2 nd 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 2 nd year/10)	6.54	6.81	6.44
Y= Total no. of successful students	45	25	90
Z =Total no. of students appeared in the examination	45	25	90
API = X* (Y/Z)	6.54	6.81	6.44
Average API = (API_1 + API_2 + API_3)/3	6.60		

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 Batch (2021-25)	CAYm2 2022-23 Batch (2020-24)	CAYm3 2021-22 Batch (2019-23)
X= (Mean of 3 rd 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 3 rd year/10)	7.52	6.77	6.62
Y= Total no. of successful students	25	90	173
Z= Total no. of students appeared in the examination	25	90	173
API = X* (Y/Z)	7.52	6.77	6.62
Average API = (API_1 + API_2 + API_3)/3	6.97		

B9. Placement, Higher Studies and Entrepreneurship**Table No. B9.1:** Placement, higher studies, and entrepreneurship details.

Item	LYG 2020-24	LYGm1 2019-23	LYGm2 2018-22
FS*=Total no. of final year students	242	246	246
X= No. of students placed	54	90	84
Y= No. of students admitted to higher studies	2	7	4
Z= No. of students taking up entrepreneurship	1	1	1
X + Y + Z =	57	98	89
Placement Index (P) = (((X + Y + Z)/FS) * 100)	23.55	39.83	36.17
Average placement index = (P_1 + P_2 + P_3)/3	33.18		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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. C1.1: Details for the faculty of the department for academic year CAY (2024-25)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr. Dheeraj Joshi	Ph. D.	MNIT, Jaipur	Production and Industrial Engineering	09.07.2005	19Y11M	Assistant Professor	Professor & Head	01.07.2020	Regular	NA	Y	
2	Dr. Ashish Nayyar	Ph.D.	MNIT, Jaipur	Energy Engineering	12.07.2004	20Y11M	Assistant Professor	Professor	01.07.2018	Regular	NA	Y	
3	Dr. Manu Augustine	Ph. D.	MNIT, Jaipur	Manufacturing Systems	05.01.2015	10Y5M	Associate Professor	Professor	01.07.2017	Regular	NA	Y	
4	Dr. Naresh Chand Bhandari	Ph. D.	IIT, Delhi	Machine Design	03.07.2017	7Y11M	Professor	Professor	-	Regular	NA	Y	
5	Dr. Achin Srivastav	Ph. D.	IIITDM, Jabalpur	Industrial Engineering	04.07.2017	7Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	
6	Mr. Ajay Kumar Dhanopia	M. Tech.	RTU, Kota	Machine Design	01.07.2013	11Y11M	Assistant Professor	Associate Professor	01.07.2018	Regular	NA	Y	
7	Mr. Amit Kumar Bansal	M. Tech	MNIT, Jaipur	Energy Engineering	05.06.2013	12Y0M	Associate Professor	Associate Professor	-	Regular	NA	Y	
8	Mr. Ankit Kumar Agarwal	M. Tech	MNIT, Jaipur	Energy Engineering	03.08.2009	15Y10M	Assistant Professor	Associate Professor	01.08.2018	Regular	NA	Y	
9	Dr. Chandan Kumar	Ph. D.	RTU, Kota	Thermal Engineering	17.06.2013	12Y0M	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Y	
10	Dr. Deepak Kumar	Ph. D.	MNIT, Jaipur	Manufacturing System	03.07.2019	5Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	
11	Dr. Dharmendra Hariyani	Ph. D.	RTU, Kota	Manufacturing Systems	01.04.2009	16Y2M	Associate Professor	Associate Professor	-	Regular	NA	Y	

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12	Dr. Manoj Kumar Sain	Ph. D.	MNIT, Jaipur	Manufacturing Systems	10.6.2009	16Y0M	Assistant Professor	Associate Professor	01.07.2012	Regular	NA	Y	
13	Mr. Praveen Saraswat	M. Tech	RTU, Kota	Production Engineering	03.08.2009	15Y10M	Assistant Professor	Associate Professor	01.07.2019	Regular	NA	Y	
14	Dr. Prem Singh	Ph. D.	MNIT, Jaipur	Design Engineering	04.07.2019	5Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	
15	Dr. Vikash Gautam	Ph. D.	MNIT, Jaipur	Materials Science	11.07.2016	8Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	
16	Mr. Vinay Singh Marwal	M. Tech.	MNIT, Jaipur	Manufacturing Systems	16.03.2015	10Y3M	Associate Professor	Associate Professor	-	Regular	NA	Y	
17	Dr. Amit Jhalani	Ph. D.	MNIT, Jaipur	Energy Engineering	13.10.2021	3Y8M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
18	Mr. Arun Beniwal	M. Tech	RTU, Kota	Thermal Engineering	21.07.2011	13Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
19	Mr. Brij Mohan Sharma	M. Tech	IIT Kanpur	Nuclear Engineering	02.06.2014	11Y0M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
20	Mr. Chandra Mohan Kumar	M. Tech	MANIT, Bhopal	Thermal Engineering	03.09.2013	11Y9M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
21	Dr. Dinesh Kumar Sharma	Ph. D.	MNIT, Jaipur	Thermal Engineering	01.08.2011	13Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
22	Mr. Madhukar Kumar	M. Tech.	ISM Dhanbad	Energy & Environmental Engineering	03.03.2016	9Y3M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
23	Mr. Manoj Kumar	M. Tech.	NIT Kurukshetra	Thermal Engineering	03.07.2017	7Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	N	11.11.2024
24	Mr. Mohammed Suhaib	M. Tech.	NIT Allahabad	Applied Mechanics	05.07.2017	7Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
25	Ms. Monika Khurana	M. Tech	RTU, Kota	Production Engineering	26.07.2010	14Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
26	Mr. Monu Gupta	M. Tech	RTU Kota	Production Engineering	04.07.2012	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
27	Ms. Namita Soni	M. Tech	RTU Kota	Machine Design	23.07.2013	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
28	Mr. Naveen Kumar Sain	M. Tech	RTU Kota	Thermal Engineering	02.07.2018	6Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
29	Mr. Nikhil Sharma	M. Tech.	NIT Patna	Thermal Engineering	01.08.2016	8Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
30	Mr. Nitin Goyal	M. Tech	RTU Kota	Thermal Engineering	16.08.2011	13Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
31	Mr. Pramod Jain	M. Tech	RTU Kota	Production Engineering	13.07.2011	13Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
32	Dr. Raj Kumar	Ph. D.	JNVU, JODHPUR	Thermal Engineering	22.09.2021	3Y9M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
33	Mr. Sandeep Kumar Bhaskar	M. Tech	RTU Kota	Production Engineering	18.07.2011	13Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
34	Mr. Sanjay Bairwa	M. Tech.	RTU, Kota	Production Engineering	16.07.2012	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
35	Mr. Sanjay Choudhary	M. Tech	RTU, Kota	Renewable Energy	16.07.2012	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
36	Mr. Saurabh Gupta	M. Tech	RTU, Kota	Production Engineering	23.07.2012	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
37	Ms. Sudesh Garg	M. Tech	RTU, Kota	Production Engineering	22.07.2013	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
38	Mr. Sumita	M. Tech	RTU, Kota	Renewable Energy	11.07.2012	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
39	Mr. Sunil Kumar	M. Tech.	RTU, Kota	Production Engineering	22.07.2013	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	

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40	Mr. Trivendra Kumar Sharma	M. Tech	RTU Kota	Machine Design	04.07.2016	8Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
41	Mr. Vishnu Jangid	M. Tech.	MNIT, Jaipur	Industrial Engineering	05.07.2017	7Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	
42	Mr. Yogesh Kumar Sharma	M. Tech	RTU, Kota	Production Engineering	24.02.2014	11Y4M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	

Table No. C1.2: Details for the faculty of the department for academic year CAYm1 (2023-24)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr. Dheeraj Joshi	Ph. D.	MNIT, Jaipur	Production and Industrial Engineering	09.07.2005	18Y11M	Assistant Professor	Professor & Head	01.07.2020	Regular	NA	Y	-
2	Dr. Ashish Nayyar	Ph.D.	MNIT, Jaipur	Energy Engineering	12.07.2004	19Y11M	Assistant Professor	Professor	01.07.2018	Regular	NA	Y	-
3	Dr. Manu Augustine	Ph. D.	MNIT, Jaipur	Manufacturing Systems	05.01.2015	09Y5M	Associate Professor	Professor	01.07.2017	Regular	NA	Y	-
4	Dr. Naresh Chand Bhandari	Ph. D.	IIT, Delhi	Machine Design	03.07.2017	6Y11M	Professor	Professor	-	Regular	NA	Y	-
5	Dr. Achin Srivastav	Ph. D.	IIITDM, Jabalpur	Industrial Engineering	04.07.2017	6Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
6	Mr. Ajay Kumar Dhanopia	M. Tech.	RTU, Kota	Machine Design	01.07.2013	10Y11M	Assistant Professor	Associate Professor	01.07.2018	Regular	NA	Y	-

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
7	Mr. Amit Kumar Bansal	M. Tech	MNIT, Jaipur	Energy Engineering	05.06.2013	11Y0M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
8	Mr. Ankit Kumar Agarwal	M. Tech	MNIT, Jaipur	Energy Engineering	03.08.2009	14Y10M	Assistant Professor	Associate Professor	01.08.2018	Regular	NA	Y	-
9	Dr. Chandan Kumar	Ph. D.	RTU, Kota	Thermal Engineering	17.06.2013	11Y0M	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Y	-
10	Dr. Deepak Kumar	Ph. D.	MNIT, Jaipur	Manufacturing System	03.07.2019	4Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
11	Dr. Dharmendra Hariyani	Ph. D.	RTU, Kota	Manufacturing Systems	01.04.2009	15Y2M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
12	Dr. Manoj Kumar Sain	Ph. D.	MNIT, Jaipur	Manufacturing Systems	10.6.2009	15Y0M	Assistant Professor	Associate Professor	01.07.2012	Regular	NA	Y	-
13	Mr. Praveen Saraswat	M. Tech	RTU, Kota	Production Engineering	03.08.2009	14Y10M	Assistant Professor	Associate Professor	01.07.2019	Regular	NA	Y	-
14	Dr. Prem Singh	Ph. D.	MNIT, Jaipur	Design Engineering	04.07.2019	4Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
15	Dr. Vikash Gautam	Ph. D.	MNIT, Jaipur	Materials Science	11.07.2016	7Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
16	Mr. Vinay Singh Marwal	M. Tech.	MNIT, Jaipur	Manufacturing Systems	16.03.2015	9Y3M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
17	Dr. Amit Jhalani	Ph. D.	MNIT, Jaipur	Energy Engineering	13.10.2021	2Y8M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
18	Mr. Arun Beniwal	M. Tech	RTU, Kota	Thermal Engineering	21.07.2011	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
19	Mr. Brij Mohan Sharma	M. Tech	IIT Kanpur	Nuclear Engineering	02.06.2014	10Y0M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
20	Mr. Chandra Mohan Kumar	M. Tech	MANIT, Bhopal	Thermal Engineering	03.09.2013	10Y9M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
21	Mr. Dinesh Kumar Sharma	M. Tech.	RTU, Kota	Thermal Engineering	01.08.2011	12Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
22	Mr. Madhukar Kumar	M. Tech.	ISM Dhanbad	Energy & Environmental Engineering	03.03.2016	8Y3M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-

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23	Mr. Manoj Kumar	M. Tech.	NIT Kurukshetra	Thermal Engineering	03.07.2017	6Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
24	Mr. Mohammed Suhaib	M. Tech.	NIT Allahabad	Applied Mechanics	05.07.2017	6Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
25	Ms. Monika Khurana	M. Tech	RTU, Kota	Production Engineering	26.07.2010	13Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
26	Mr. Monu Gupta	M. Tech	RTU Kota	Production Engineering	04.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
27	Ms. Namita Soni	M. Tech	RTU Kota	Machine Design	23.07.2013	10Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
28	Mr. Naveen Kumar Sain	M. Tech	RTU Kota	Thermal Engineering	02.07.2018	5Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
29	Mr. Nikhil Sharma	M. Tech.	NIT Patna	Thermal Engineering	01.08.2016	7Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
30	Mr. Nitin Goyal	M. Tech	RTU Kota	Thermal Engineering	16.08.2011	12Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
31	Mr. Pramod Jain	M. Tech	RTU Kota	Production Engineering	13.07.2011	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
32	Dr. Raj Kumar	Ph. D.	JNVU, JODHPUR	Thermal Engineering	22.09.2021	2Y9M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
33	Mr. Sandeep Kumar Bhaskar	M. Tech	RTU Kota	Production Engineering	18.07.2011	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
34	Mr. Sanjay Bairwa	M. Tech.	RTU, Kota	Production Engineering	16.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
35	Mr. Sanjay Choudhary	M. Tech	RTU, Kota	Renewable Energy	16.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
36	Mr. Saurabh Gupta	M. Tech	RTU, Kota	Production Engineering	23.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
37	Ms. Sudesh Garg	M. Tech	RTU, Kota	Production Engineering	22.07.2013	10Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
38	Mr. Sumita	M. Tech	RTU, Kota	Renewable Energy	11.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
39	Mr. Sunil Kumar	M. Tech.	RTU, Kota	Production Engineering	22.07.2013	10Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
40	Mr. Trivendra Kumar Sharma	M. Tech	RTU Kota	Machine Design	04.07.2016	7Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
41	Mr. Vishnu Jangid	M. Tech.	MNIT, Jaipur	Industrial Engineering	05.07.2017	6Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
42	Mr. Yogesh Kumar Sharma	M. Tech	RTU, Kota	Production Engineering	24.02.2014	10Y4M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-

Table No. C1.3: Details for the faculty of the department for academic year CAYm2 (2022-23)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr. Dheeraj Joshi	Ph. D.	MNIT, Jaipur	Production and Industrial Engineering	09.07.2005	17Y11M	Assistant Professor	Professor & Head	01.07.2020	Regular	NA	Y	-
2	Dr. Ashish Nayyar	Ph.D.	MNIT, Jaipur	Energy Engineering	12.07.2004	18Y11M	Assistant Professor	Professor	01.07.2018	Regular	NA	Y	-
3	Dr. Manu Augustine	Ph. D.	MNIT, Jaipur	Manufacturing Systems	05.01.2015	8Y5M	Associate Professor	Professor	01.07.2017	Regular	NA	Y	-
4	Dr. Naresh Chand Bhandari	Ph. D.	IIT, Delhi	Machine Design	03.07.2017	5Y11M	Professor	Professor	-	Regular	NA	Y	-
5	Dr. Achin Srivastav	Ph. D.	IIITDM, Jabalpur	Industrial Engineering	04.07.2017	5Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
6	Mr. Ajay Kumar Dhanopia	M. Tech.	RTU, Kota	Machine Design	01.07.2013	8Y11M	Assistant Professor	Associate Professor	01.07.2018	Regular	NA	Y	-
7	Mr. Amit Kumar Bansal	M. Tech	MNIT, Jaipur	Energy Engineering	05.06.2013	10Y0M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
8	Mr. Ankit Kumar Agarwal	M. Tech	MNIT, Jaipur	Energy Engineering	03.08.2009	13Y10M	Assistant Professor	Associate Professor	01.08.2018	Regular	NA	Y	-

S.N.	Name of the Faculty	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)	If contractual mention Full time or Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
9	Dr. Chandan Kumar	Ph. D.	RTU, Kota	Thermal Engineering	17.06.2013	11Y0M	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Y	-
10	Dr. Deepak Kumar	Ph. D.	MNIT, Jaipur	Manufacturing System	03.07.2019	3Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
11	Mr. Dharmendra Hariyani	M. E.	University of Rajasthan	Manufacturing Systems	01.04.2009	14Y2M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
12	Dr. Manoj Kumar Sain	Ph. D.	MNIT, Jaipur	Manufacturing Systems	10.6.2009	14Y0M	Assistant Professor	Associate Professor	01.07.2012	Regular	NA	Y	-
13	Mr. Praveen Saraswat	M. Tech	RTU, Kota	Production Engineering	03.08.2009	13Y10M	Assistant Professor	Associate Professor	01.07.2019	Regular	NA	Y	-
14	Dr. Prem Singh	Ph. D.	MNIT, Jaipur	Design Engineering	04.07.2019	3Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
15	Dr. Vikash Gautam	Ph. D.	MNIT, Jaipur	Materials Science	11.07.2016	6Y11M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
16	Mr. Vinay Singh Marwal	M. Tech.	MNIT, Jaipur	Manufacturing Systems	16.03.2015	8Y3M	Associate Professor	Associate Professor	-	Regular	NA	Y	-
17	Dr. Amit Jhalani	Ph. D.	MNIT, Jaipur	Energy Engineering	13.10.2021	1Y8M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
18	Mr. Arun Beniwal	M. Tech	RTU, Kota	Thermal Engineering	21.07.2011	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
19	Mr. Brij Mohan Sharma	M. Tech	IIT Kanpur	Nuclear Engineering	02.06.2014	9Y0M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
20	Mr. Chandra Mohan Kumar	M. Tech	MANIT, Bhopal	Thermal Engineering	03.09.2013	9Y9M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
21	Mr. Dinesh Kumar Sharma	M. Tech.	RTU, Kota	Thermal Engineering	01.08.2011	11Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
22	Mr. Madhukar Kumar	M. Tech.	ISM Dhanbad	Energy & Environmental Engineering	03.03.2016	7Y3M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
23	Mr. Manoj Kumar	M. Tech.	NIT Kurukshetra	Thermal Engineering	03.07.2017	5Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
24	Mr. Mohammed Suhaib	M. Tech.	NIT Allahabad	Applied Mechanics	05.07.2017	5Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-

S.N.	Name of the Faculty	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)	If contractual mention Full time or Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
25	Ms. Monika Khurana	M. Tech	RTU, Kota	Production Engineering	26.07.2010	12Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
26	Mr. Monu Gupta	M. Tech	RTU Kota	Production Engineering	04.07.2012	10Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
27	Ms. Namita Soni	M. Tech	RTU Kota	Machine Design	23.07.2013	9Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
28	Mr. Naveen Kumar Sain	M. Tech	RTU Kota	Thermal Engineering	02.07.2018	5Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
29	Mr. Nikhil Sharma	M. Tech.	NIT Patna	Thermal Engineering	01.08.2016	6Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
30	Mr. Nitin Goyal	M. Tech	RTU Kota	Thermal Engineering	16.08.2011	11Y10M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
31	Mr. Pramod Jain	M. Tech	RTU Kota	Production Engineering	13.07.2011	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
32	Dr. Raj Kumar	Ph. D.	JNVU, JODHPUR	Thermal Engineering	22.09.2021	1Y9M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
33	Mr. Sandeep Kumar Bhaskar	M. Tech	RTU Kota	Production Engineering	18.07.2011	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
34	Mr. Sanjay Bairwa	M. Tech.	RTU, Kota	Production Engineering	16.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
35	Mr. Sanjay Choudhary	M. Tech	RTU, Kota	Renewable Energy	16.07.2012	11Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
36	Mr. Saurabh Gupta	M. Tech	RTU, Kota	Production Engineering	23.07.2012	10Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
37	Ms. Sudesh Garg	M. Tech	RTU, Kota	Production Engineering	22.07.2013	9Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
38	Mr. Sumita	M. Tech	RTU, Kota	Renewable Energy	11.07.2012	10Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
39	Mr. Sunil Kumar	M. Tech.	RTU, Kota	Production Engineering	22.07.2013	9Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-

S.N.	Name of the Faculty	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)	If contractual mention Full time or Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
40	Mr. Trivendra Kumar Sharma	M. Tech	RTU Kota	Machine Design	04.07.2016	6Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
41	Mr. Vishnu Jangid	M. Tech.	MNIT, Jaipur	Industrial Engineering	05.07.2017	5Y11M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-
42	Mr. Yogesh Kumar Sharma	M. Tech	RTU, Kota	Production Engineering	24.02.2014	9Y4M	Assistant Professor	Assistant Professor	-	Regular	NA	Y	-

C2: Student-Faculty Ratio

- ❖ No. of UG(Engineering) programs in Department including allied departments/ clusters (UG_n):
 - UG₁=1st UG program
 - UG_n=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 (PG_m):
 - PG₁=1st PG program.
 - PG_m=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 member who have a 100% teaching load in the first year courses)).

Table No. C2.1: Student-faculty ratio

Year	CAY	CAYm1	CAYm2
UG ₁ . B	60+3	60+3	180+1
UG ₁ . C	60+3	180+1	240+2
UG ₁ . D	180+1	240+2	240+6
UG ₁	307	486	669
PG ₁ . A	18	18	18
PG ₁ . B	18	18	18
PG ₁	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	343	522	705
AS=Total no. of students of all UG and PG programs in allied departments	NA	NA	NA
S=Total no. of students in the Department (DS) and allied departments (AS)	S1=343	S2=522	S3=705
DF=Total no. of faculty members in the Department	41	42	42
AF= Total no. of faculty members in the allied Departments	NA	NA	NA
F=Total no. of faculty members in the Department (DF)and allied Departments (AF)	F1=41	F2=42	F3=42
FF=The faculty members in F who have a 100% teaching load in the first-year courses	16	11	11
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1=343/25=13.72	SFR2=522/31=16.84	SFR3=705/31=22.74
Average SFR for 3 years	Average SFR= (13.72+16.84+22.74)/3=17.76		

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 5.1 of SAR; (RF=S/20).

Table No. C3.1: Faculty qualification.

Year	X	Y	RF	FQI= $2.5 * [(10X + 4Y)/RF]$
CAY (2024-25)	11	14	17	24.41
CAYm1 (2023-24)	12	19	26	18.85
CAYm2 (2022-23)	12	19	35	14
Average Assessment				19.08

C4: Faculty Cadre Proportion

Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)

- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this document.}$
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this document.}$
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this document.}$
- ❖ 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 Faculty (RF1)	Available Faculty (AF1)	Required Faculty (RF2)	Available Faculty (AF2)	Required Faculty (RF3)	Available Faculty (AF3)
CAY	2	4	4	10	11	11
CAYm1	3	4	6	11	17	16
CAYm2	4	4	8	11	23	16
Average Numbers	RF1=3	AF1=4	RF2=6	AF2=10.67	RF3=17	AF3=14.33

C5: Visiting/Adjunct Faculty/Professor of Practice**Table No. 5.4.1:** List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1				
1	Mr. Sushil Surana	Associate Professor of Practice	Odd Semester	Odd Semester
			Automobile Engineering	45
			Basic Mechanical Engineering Lab	108
			Even Semester	Even Semester
			Basic Mechanical Engineering Lab	108
			Manufacturing Practice Workshop	96
Total no. of hours:				357
CAYm2				
	NIL			
CAYm3				
	NIL			

C6: Academic Research**Table No. C6.1:** Faculty publication details.

S.N.	Item	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
1	No. of peer reviewed journal papers published	43	33	22
2	No. of peer reviewed conference papers published	38	8	20
3	No. of books/book chapters published	5	7	6

C7: Sponsored Research Project**Table No. C7.1:** List of sponsored research projects received from external agencies.

S.N.	PI name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm1 (2023-24)							
	NIL						
CAYm2 (2022-23)							
	NIL						
CAYm3 (2021-2022)							
	NIL						

C8: Consultancy Work**Table No. C8.1:** List of consultancy projects received from external agencies.

S.N.	PI name	Co-PI names if any	Name of the Dept., where Project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm1 (2023-24)							
1	Dr. Ashish Nayyar	None	Mechanical Engineering	Biofuel testing on VCR diesel Engine	BPCL	28.08.2023	₹0.15
2	Mr. Brij Mohan Sharna, Ms. Namita Soni	None	Mechanical Engineering	Sample Testing on UTM	MNIT, Jaipur	29.04.2024 to 21.05.2024	₹0.16
Amount received (Rs.)							0.31
CAYm2 (2022-23)							
1	Nil						
Amount received (Rs.)							-
CAYm3 (2021-22)							
1	Mr. Praveen Saraswat, Mr. Vinay Marwal	None	Mechanical Engineering	Sample Testing on Surface Roughness Testing Machine	JK Lakshmipat University	14.10.2021	₹.036
2	Mechanical Engineering Department	None	Mechanical Engineering	Laboratory Development	VGU	24.08.2021	₹3.00
3	Mr. Ajay Dhanopia	None	Mechanical Engineering	Item Development	TCS Limited	23.02.2021	₹0.18
Amount received (Rs.)							3.22
Total amount (Lacs) received for the past 3 years							3.53

C9: Institution Seed Money or Internal Research Grant to its Faculty for Research Work**Table No. C9.1:** List of faculty members received seed money or internal research grant from the Institution.

S. N.	Faculty name	Project title/Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1 (2023-24)						
1	Mr. Ankit Agrawal	Temperature controlled Portable solar dryer for drying Different Agricultural products	1 Year	1.08	1.08	Completed
2	Mr. Ajay Dhanopia, Dr. Dheeraj Joshi	Electric car	6 Months	0.98	0.98	Completed
3	Mr. Naveen Kumar Sain	Design & Development of mechanically operated small scale bio mass log manufacturing machine for Rural development & sustainable waste management	1 Year	0.94	0.91	Completed

S. N.	Faculty name	Project title/Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
4	Mr. Ajay Dhanopia	Design and development of multipurpose Agro-farming electric vehicle	1 Year	0.19	0.19	Completed
Amount received (Rs.) 3.16						
CAYm2 (2022-23)						
1	Mr. Jitendra Meena	Multi-functional Sprinkler machine	1 Year	1	1	Completed
2	Dr. Dinesh Sharma	Design & fabrication of Rapid Milk can chilling jacket for Rural Development	1 Year	0.14	0.14	Completed
Amount received (Rs.) 1.14						
CAYm3 (2021-22)						
1	Mr. Ajay Dhanopia	Smart Hybrid Motorcycle	1 Year	0.30	0.30	Completed
Amount received (Rs.) 0.30						
Total amount (Lacs) received for the past 3 years					4.6	

PART-D: Laboratory Infrastructure in the Department
(Data to be filled in for the Department).

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

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

Sr. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (All the courses for which lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	Mechanical Workshop 1-Welding Shop 2-Fitting Shop 3-Carpentry Shop	2	1. Electric Arc Welding Set-Up 2. Gas Welding Set-Up 3. Drilling Machine 12 mm 4. Bench Grinder 5. Fitting work stations 6. Carpentry work stations 7. Hand Shearing machine	20 hrs/ week I Semester 1FY3-25 & 2FY3-25 Manufacturing Practices Workshop – 20 hrs/week VIII Semester 8ME7-50 Project (6 day/week)	Mr. Lokesh Saini	Foreman	ITI (Welder)
					Mr. Mahendra Bagaria	TA	ITI (Welder)
					Mr. Subhash Chander Jangir	TA	ITI (Mechanic Diesel)
2	Production Engineering Lab 1-Machine Shop 2-Foundry Shop 3-Welding Shop	2	1. Lathe Machines (4.5 ft bed length) 2. Lathe Machines (6 ft bed length) 3. All Geared 6 ft bed length Lathe Machines. 4. Shaper Machines. 5. Radial Drilling Machine 6. Bench Grinder 7. Capstan Lathe 8. Surface Grinder 9. Milling Machines 10. Tool post Grinder 11. Permeability Tester 12. Rapid Moisture teller 13. Sand Strength Tester 14. AFS Sieve Analysis Set - Up 15. Power Hack Saw 16. TIG Welding set-up 17. MIG Welding set-up 18. Spot Welding Machine 19. Electric Arc Welding Set-Up 20. Lathe Tool Dynamometer 21. Drill Tool Dynamometer 22. Milling Tool Dynamometer 23. Metal Cutting Band-Saw	38 hrs/ week 1 st Semester 1FY3-25 & 2FY3-25 Manufacturing Practices Workshop - 20 hrs/week IV Semester Production Practice LAB 3 hrs/week. Total 9 hrs/week V Semester 5ME4-23 Production Engg lab (3 hrs/ week) Total 9 hrs/ week VIII Semester 8ME7-50 Project (6 day/week)	Mr. Shiv Kumar Saini	TA	ITI (Machinist)
					Mr. Shiv Raj Panchal	TA	ITI (Welder)
					Mr. Sunil Kumar	TA	ITI (Mechanic, Motor Vehicle)

Sr. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (All the courses for which lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
3	Basic Mechanical Engineering Lab	4	1. MPFI System Working Model 2. Centrifugal Pump cut sectional model 3. Four Stroke S. I Engine Demo model 4. Two Stroke C.I Engine Demo model 5. Sewing Machines (Two) 6. Bicycle with Gear 7. Window Air Conditioner 8. Inclined Plane Friction Apparatus	9 hrs/week III Semester 3ME4-23: Basic Mechanical Engineering Lab 3 hrs/week Total 9 hrs/week	Mr. Lokesh Kumar Darjee	TA	Diploma (Mechanical Engineering)
4	Theory of Machines Lab	4	1. Universal Governor Apparatus 2. Gyroscope Apparatus 3. Trifilar Suspension 4. Planetary Gear Box 5. Synchromesh Gear Box 6. Constant Mesh Gear Box 7. Differential Gear Box 8. Journal Bearing Oil Pressure Distribution Apparatus 9. Static and Dynamic Balancing Apparatus	9 hrs/week IV Semester 4ME4-07: Theory of Machines Lab (3 hrs/week) (Total 9 hrs / week)	Mr. Hemant Kumar	Sr. TA	Diploma (Mechanical Engineering)
5	Fluid Mechanics Lab	4	1. V-Notch Set-Up 2. Bernoulli's Experimental Set-Up, 3. Orifice and Mouthpiece Experimental Set-Up 4. Pipe Friction Apparatus 5. Metacentric Height Experimental Set-Up 6. Pitot Tube Experimental Set-Up 7. Flow Rate Measurement using Orifice Meter, Nozzle Meter and Venturi Meter 8. Boundary Layer Apparatus. 9. Impact of Jet of Vanes	9 hrs/week IV Semester 4ME4-22: Fluid Mechanics Lab (3 hrs/ week) (Total 9 hrs/week)	Mr. Ravindra Singh Choudhary	TA	Diploma (Mechanical Engineering)
6	Material Science and Testing Lab	3	1. Universal Testing Machine 2. Torsion Testing Machine 3. Spring Testing Machine 4. Hardness Testing Machine 5. Izod & Charpy Impact Testing Machine 6. Fatigue Testing Machine 7. Grinding Machine 8. Electric Muffle Furnace 9. Polisher Dry & Wet type 10. Metallurgical Microscopes	9 hrs/week III Semester 3ME4-21: Material Science and Testing Lab 3 hrs/ week. Total 9 hrs/week.	Mr. Lokesh Kumar Darjee	TA	Diploma (Mechanical Engineering)

Sr. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (All the courses for which lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
7	Thermal Engineering Lab	4	1. Single Cylinder, four stroke Diesel Engine Test Rig 2. Single Cylinder, Two Stroke Petrol Engine Test Rig 3. 4-Stroke 4-Cylinder Water Cooled Petrol Engine Test Rig (Morse Test) 4. 4-stroke,4-cylinder variable speed diesel engine (Morse Test) 5. 4-Stroke 4- Cylinder Diesel Engine (Cut Section Model) 6. 4-Stroke 4- Cylinder Petrol Engine (Cut Section Model) 7. 2- Stroke Single Cylinder Petrol Engine (Cut Section Model) 8. Reciprocating Air Compressor Test Rig 9. Battery Ignition System (With Battery) 10. BOMB Calorimeter 11. Viscometer 12. Flash point & fire point Apparatus	15 hrs / week VI Semester 6ME4-24: Thermal Engineering Lab-I (3hrs/week) Total 9 hrs/week VII Semester 7ME4-22: Thermal Engineering Lab-II (3 hrs/ week) Total 6 hrs/week VIII Semester 8ME7-50 Project (6 day/week)	Mr. Dinesh Lal Gupta	Sr. TA.	Diploma (Mechanical Engineering)
8	Computer Lab-I	1	1. Computers (42) 2. LCD Projector 3. Creo Software (50 Users) 4. Ansys Software 5. Autodesk Mechanical Solution set (42 Users) 6. AutoCAD (Institute License) 7. SCI-Lab Software 8. LISA Software 9. UPS (10 kVA)	15 hrs/week III semester 3ME4-21 Machine Drawing Practice 3 hrs/week Total 9 hrs/week VII Semester 7ME4-21: Finite element lab 3hrs/week Total 6 hrs/week VIII Semester 8ME7-50 Project (6 day/week)	Mr. Pushpendra Chouhan	Sr. TA	B. Tech. (CSE), Diploma (CSE)

Sr. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (All the courses for which lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
9	Computer Lab-II	1	1. Computers (40) 2. LCD Projector 3. Printer 4. Scanner 5. UPS (6 kVA) 6. Cut viewer Turn Simulation Software (15 Users) 10. Cut viewer Mill Simulation Software (15 Users) 11. MAT LAB 12. AutoCAD (Institute License) 13. SCI-Lab Software 14. LISA Software	18 hrs/ week III Semester 3ME4-24: Programmin g MAT Lab. (3 hrs/week) Total 9 hrs/week VI Semester: 6ME3-21: CIMS Lab (3 hrs/week) Total 9 hrs/week VIII Semester 8ME7-50 Project (6 day/week)	Mr. Hitesh Prajapati	TA	BCA
10	Heat Transfer Lab	4	1. Thermal Conductivity of Composite Wall Apparatus 2. Thermal Conductivity of Slab Guarded Hot Plate Apparatus 3. Stefan Boltzman Apparatus 4. Natural Convection Apparatus 5. Critical Heat Flux Apparatus 6. Thermal Emissivity Measurement Apparatus 7. Pin Fin Apparatus 8. Thermal Conductivity of Insulating Powder Apparatus 9. Heat Pipe Apparatus 10. Drop Wise and Film Wise Condensation Apparatus 11. Forced Convection Apparatus	6 hrs/week V Semester 5ME4-22: Heat Transfer Lab. (2 hrs/ week) Total 6 hrs/ week	Mr. Ravindra Singh Choudhary	TA	Diploma (Mechanical Engineering)
11	Fluid Machines Lab		1. Closed circuit Pelton wheel turbine test rig 2. Closed circuit Francis turbine test rig 3. Closed circuit Kaplan turbine test rig 4. Closed circuit Hydraulic Ram test rig 5. Closed circuit centrifugal pump test rig. 6. Axial flow compressor test rig with 3- stages.	6 hrs/week VII Semester 7ME4-22: Thermal Engineering lab-II 3 hrs/week Total 6 hrs/week	Mr. Ravindra Singh Choudhary	TA	Diploma (Mechanical Engineering)

Sr. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (All the courses for which lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
12	Industrial Engineering Lab	4	Various material to perform sampling studies and prepare control charts	8 hrs/ week VII Semester 7ME4-23: Quality Control Lab (2 hrs/ week) Total 4 hrs/ week VIII Semester 8ME4-21: Industrial Engineering Lab (2 hrs/ week) Total 4 hrs/ week	Mr. Lokesh Kumar Darjee	TA	Diploma (Mechanical Engineering)
13	Metrology Lab		1. Tool maker's Microscope 2. Optical flat reflector 3. Optical profile projector 4. Gear roll tester 5. Surface roughness tester	10 hrs/week V Semester 5ME4-23: Production Engineering Lab (2 hrs/week) Total 6 hrs/week VIII Semester 8ME4-22 Metrology Lab (2 hrs/week) Total 4 hrs/week	Mr. Hemant Kumar	Sr. TA	Diploma (Mechanical Engineering)
14	CAM lab	4	1. CNC Lathe Machine 2. CNC Milling Machine 3. 5- Axis Robotic Arm	9 hrs/ week VI Semester 6ME4-21: CIMS Lab (3 hrs/ week) Total 9 hrs/ week	Mr. Dinesh Lal Gupta	Sr. TA	Diploma (Mechanical Engineering)
15	Vibration Engineering Lab	4	1. Universal vibration set up (Free vibration) 2. Universal vibration set up (Force Vibration) 3. Whirling of Shafts Apparatus	9 hrs/ week VI Semester 6ME4-22: Mechanical Vibration Lab (3 hrs/ week) Total 9 hrs/ week	Mr. Hemant Kumar	Sr. TA	Diploma (Mechanical Engineering)

Sr. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (All the courses for which lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
16	Mechatronics Lab	4	1. Measurement of temperature using Thermocouple, Thermistor and RTD 2. Displacement Measurement using LVDT 3. Measurement of Position and Velocity Using Encoder 4. Speed Measurement System Through Magnetic Pick Up 5. Measurement of Displacement through Capacitive pick ups 6. Measurement of Displacement through Inductive pick up; 7. Load Measurement System using Load Cell 8. Displacement Measurement using Potentiometer; 9. Torque Measurement System 10. Strain Measurement System 11. Digital Multimeter Trainer Kit 12. OpAM Trainer Kit 13. Opto Transducer	6 hrs/ week V Semester 5ME3-21: Mechatronics Lab (2 hrs/ week) Total 6 hrs/ week	Mr. Hemant Kumar	Sr. TA	Diploma (Mechanical Engineering)
17	Project Lab	4	Various Student Projects	6 day/week VII/VIII Semester 8ME7-50 Project (6 day/week)	Mr. Ravindra Singh Choudhary	TA	Diploma (Mechanical Engineering)

D2: Safety Measures in Laboratories

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

S. No.	Name of the Laboratory	Safety measures
1	Mechanical Workshop	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Apron, hand gloves, goggles, welding face shield (as required) 5. Tongs (for hot specimen) 6. Wash basin for hand and eye washing 7. Electric earthing of equipment 8. Machine guards on belt pulleys and gear boxes. 9. Ventilation & exhausts fans 10. Emergency exit

S. No.	Name of the Laboratory	Safety measures
2	Production Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Apron, hand gloves, goggles, welding face shield (as required) 5. Tongs (for hot specimen) 6. Wash basin for hand and eye washing 7. Electric earthing of equipment 8. Guards on belt pulleys and gear boxes. 9. Ventilation exhausts fans 10. Emergency exit
3	Basic Mechanical Engineering Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Apron & hand gloves (as required) 5. Ventilation & exhausts fans 6. Emergency exit
4	Theory of Machine Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing of equipment 5. Machine guard on clutch and gear train setup
5	Fluid Mechanics Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Drainage for water 5. Electrical earthing of equipment
6	Material Science and Testing Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Hand gloves 5. Tongs (for hot specimen) 6. Wash basin for hand and eye washing 7. Electric earthing of equipment
7	Thermal Engineering	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Tongs (for hot specimen) 5. Electric earthing of equipment 6. Engine guard on belt pulleys and gear boxes. 7. Ventilation & exhausts fans 8. Emergency exit
8	Computer lab I	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Exhaust fans 5. Electrical earthing of equipment
9	Computer lab II	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Exhaust fans 5. Electrical earthing of equipment
10	Heat transfer Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Hand gloves (as required) 5. Electric earthing of equipment 6. Proper electrical supply panels

S. No.	Name of the Laboratory	Safety measures
11	Fluid Machines Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing of equipment
12	Industrial Engineering Lab	1. Safety sign boards 2. First aid kit
13	Metrology Lab	1. Safety sign boards 2. First aid kit
14	CAM Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing 5. Enclosure of CNC lathe and milling machine
15	Vibration Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing of equipment
16	Mechatronics Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing of equipment
17	Project Lab	1. Safety sign boards 2. First aid kit
18	Automobile Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Ventilation & exhausts fans
19	RAC Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing of equipment
20	E-Yantra Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher 4. Electric earthing of equipment
21	Renewable Energy Lab	1. Safety sign boards 2. First aid kit 3. Fire extinguisher

D3: Project Laboratory/Research Laboratory

Table No. D3.1: List of Project laboratory/research laboratory /Centre of Excellence.

S.N.	Name of the Laboratory
1.	Computer lab-I – Ansys 16.0, SPSS software's (SPSS advanced statistics, SPSS regression), MathCAD
2.	Computer lab-II - MATLAB (Tools- Simulink, Image Processing Toolbox, Simscape, Simscape Electrical, Control System Toolbox, Optimization Toolbox, Statistics and Machine Learning Toolbox, Deep Learning Toolbox, Matlab Coder, Embedded Coder, Signal Processing Toolbox, Communication Toolbox, DSP System Toolbox, Robotics System Toolbox, Wavelet Toolbox, Curve Fitting Toolbox, Fixed PT Designer, HDL Coder, HDL Verifier, Simulink Coder)
3.	CAM Lab - MasterCAM software
4.	E-Yantra Embedded System & Robotics Lab – 3D Printer, Robotic Kits
5.	Material Testing Lab – Micro-hardness tester, Computerized UTM
6.	Production Engineering Lab – Ultrasonic Drilling machine, MQL-system (minimum quantity

S.N.	Name of the Laboratory
	lubrication (MQL) coolant system.
7.	Renewable Energy Lab –Pyranometer, Sunshine recorder, Data logger
8.	Thermal Engineering Lab – Computerized VCR Diesel Engine, Computerized VCR Petrol Engine, AVL-Gas Analyser, Bio Diesel reactor, Smoke meter, EGR for diesel engine
9.	Vibration Lab – IRD Analyzer
11.	SRIJAN-Incubation Cell - SRIJAN – the Incubation Cell, serves as a dedicated space for project development, innovation, and research activities. It provides students and faculty with the necessary infrastructure, tools, and mentorship to transform ideas into viable prototypes and solutions. Regular workshops, expert sessions, and collaborative activities are conducted to foster creativity, entrepreneurship, and research-oriented learning.
12.	COE: Internet of Things (IoT): IoT solutions for specific areas like water, energy, agriculture, health, security, and privacy of data. COE: Transportation Engineering - Areas of Research: Materials fabrication & Characterization Transportation optimization and Planning Safety Engineering

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)

(Data for first year courses to calculate the FYSFR)

Table No. E1.1: FYSFR details

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8)+(NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8)+(NS2*0.2))/RF4
2024-25	1200	60	38	30	0.60
2023-24	1080	54	38	24	0.65
2022-23	1080	54	38	24	0.65
Average Percentage					0.63

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

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

Items	Budgeted 2024-25	Actual Expenses 2024-25	Budgeted 2023-24	Actual Expenses 2023-24	Budgeted 2022-23	Actual Expenses 2022-23
Infrastructure Build-up	20000000	15784410	25000000	22739458	8000000	6815146
Library	2300000	2091276	2200000	1877160	2500000	2010032
Laboratory equipment	25300000	23024652	15000000	7105040	25000000	14668976
Teaching and non-teaching staff salary	315000000	313721721	290000000	287612505	255000000	250580941
Outreach Programs	1000000	903817	400000	359864	400000	390448
Research & Development	1000000	350921	1000000	648288	1000000	131490
Training, Placement and Industry Linkage	2500000	1541365	1000000	839889	1200000	1100119
Sustainable Development Goals	40700000	40546806	36600000	33170201	34700000	34265129
Entrepreneurship	700000	639540	700000	639540	2200000	2077708
Others	75000000	73739653	60600000	59726272	50000000	49539797
Total	483500000	472344161	432500000	414718217	380000000	361579786

E3: Program Specific Budget Allocation, Utilization

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

Items	Budgeted in 2024-25	Actual expenses in CFY 2024-25	Budgeted in 2023-24	Actual Expenses in 2023-24	Budgeted in 2022-23	Actual Expenses in 2022-23	Budgeted in 2021-22	Actual Expenses in 2021-22
Laboratory equipment	1,00000	123191	615000	671158	330000	568159	1240000	878669
Software	40,000	40,120	200000	0	500000	380000	250000	320628
SDGs	30,000	29016	310000	62924	0	0	0	0
Support for faculty development	1,00000	70716	120,000	70716	70000	74430	100000	55534
R & D	70,000	18000	100000	57997	120000	80729	300000	303832
Industrial Training, Industry expert, Internship	1,30,000	57231	170,000	43740	60000	50566	50000	0
Miscellaneous expenses *	2,30,000	220073	185,000	158510	420000	547674	300000	394480
Total amount	7,00000	558347	1700000	1065045	1500000	1701558	2240000	1953143