

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechanical Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 2
Application No : 11444	Date of Submission : 06-01-2026

PART A- Profile of the Institute

A1.Name of the Institute: JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE	
Year of Establishment : 2000-2000	Location of the Institute: Tonk Road Sitapura
A2. Institute Address: SHRI RAM KI NANGAL SITPURA RIICO EPIP GATE	
City:JAIPUR	State:Rajasthan
Pin Code:302022	Website:www.jecrcfoundation.com
Email:INFO@JECREC.MAIL.COM	Phone No(with STD Code):141-2770120
A3. Name and Address of the Affiliating University (if any):	
Name of the University : RAJASTHAN TECHNICAL UNIVERSITY	City: Kota
State : Rajasthan	Pin Code: 324010
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: 1
- No. of PG programs: 0

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Mechanical Engineering	2003	--	Mechanical Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Mechanical Engineering	No	Mechanical Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information**B1. Provide the Required Information for the Program Applied For:**

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS
1	Mechanical Engineering	UG	2003 / --	60	Yes	2023	30	2023	F.No. North- West/1-44640076273/2025/EOA

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS
Sanctioned Intake for Last Five Years for the Mechanical Engineering									
Academic Year			Sanctioned Intake						
2025-26			30						
2024-25			30						
2023-24			30						
2022-23			60						
2021-22			120						
2020-21			120						

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. Mahendra Pratap Singh
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)	30	30	30	60	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	31	31	29	20	31	52	73
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	3	2	3	3	8
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	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	31	31	32	22	34	55	81

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)	31	31	0	100.00
2024-25 (CAYm1)	31	31	0	100.00
2023-24 (CAYm2)	32	29	0	90.62

Average [(ER1 + ER2 + ER3) / 3] = 96.87% 20.00

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*=(No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	34.00	55.00	81.00
B=No. of students who graduated from the program in the stipulated course duration	34.00	53.00	71.00
Success Rate (SR)= (B/A) * 100	100.00	96.36	87.65

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 94.67

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)	7.28	6.29	5.31
Y=Total no. of successful students	31.00	29.00	23.00
Z=Total no. of students appeared in the examination	31.00	29.00	23.00
API [X*(Y/Z)]	7.07	6.29	5.31

Average API[(AP1+AP2+AP3)/3] : 6.22

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.47	7.60	7.66
Y=Total no. of successful students	32.00	22.00	34.00
Z=Total no. of students appeared in the examination	32.00	22.00	34.00
API [X * (Y/Z)]	7.47	7.60	7.66

Average API [(AP1 + AP2 + AP3)/3] : 7.58

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)	8.09	8.30	7.33
Y=Total no. of successful students	22.00	34.00	54.00
Z=Total no. of students appeared in the examination	22.00	34.00	55.00
API [X*(Y/Z)]:	8.09	8.30	7.20

Average API [(AP1 + AP2 + AP3)/3] : 7.86

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	34.00	55.00	81.00
X=No. of students placed	32.00	46.00	61.00
Y=No. of students admitted to higher studies	1.00	3.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	97.06	89.09	75.31

Average Placement Index = (P_1 + P_2 + P_3)/3: 87.15 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)	Curr Asso (Y/N)
1	Dr. Mahendra Pratap Singh	XXXXXXXX28F	Ph.D	Jagannath university,Jaipur	Manufacturing system	19/08/2016	9.4	Professor	Professor	19/08/2016	Regular	Yes
2	Dr. Fauzia Siddiqui	XXXXXXXX99C	Ph.D	GGSIPIU, DELHI	Industrial & Production Engineering	01/08/2018	7.5	Professor	Professor	01/08/2018	Regular	Yes
3	Dr. Bhuvnesh Bhardwaj	XXXXXXXX85K	Ph.D	SLIET Longowal Punjab	Manufacturing Engineering	14/07/2015	10.5	Associate Professor	Professor	01/01/2025	Regular	Yes
4	Dr. Manmohan Siddh	XXXXXXXX64D	Ph.D	MNIT Jaipur	Industrial Engineering	02/01/2017	9	Associate Professor	Professor	01/01/2025	Regular	Yes
5	Mr. Lalit Kumar Sharma	XXXXXXXX44K	M.Tech	MNIT Jaipur	Manufacturing Engineering	13/08/2007	18.4	Assistant Professor	Associate Professor	09/06/2023	Regular	Yes
6	Mr. Dayal Singh Rathore	XXXXXXXX64L	M.Tech	Jagannath University Jaipur	Production Engineering	23/07/2012	13.5	Assistant Professor	Assistant Professor		Regular	Yes
7	Mr. Hukam Chand	XXXXXXXX07L	M.Tech	Jagannath University Jaipur	Thermal Engineering	23/07/2012	13.5	Assistant Professor	Assistant Professor		Regular	Yes
8	Mr. Abhishek Kumar	XXXXXXXX36A	M.Tech	Jagannath University Jaipur	Manufacturing Engineering	10/08/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes
9	Mr. Satyaprakash Saini	XXXXXXXX62K	M.Tech	MNIT Jaipur	Materials Engineering	20/01/2016	9.11	Assistant Professor	Assistant Professor		Regular	Yes
10	Mr. Akhilesh Paliwal	XXXXXXXX93N	M.Tech	NIT Jamshedpur	Industrial Engineering	03/01/2017	9	Assistant Professor	Assistant Professor		Regular	Yes
11	Mr. Yogesh Dubey	XXXXXXXX43R	M.Tech	Jagannath University Jaipur	Manufacturing Engineering	08/02/2017	8.10	Assistant Professor	Assistant Professor		Regular	Yes
12	Mr.Nitin Chhabra	XXXXXXXX03F	M.Tech	RTU, Kota	Production Engineering	31/01/2014	11.11		Assistant Professor		Regular	Yes
13	Mr.Dilip Prajapati	XXXXXXXX53C	M.Tech	RTU, Kota	Production Engineering	06/09/2013	12.3	Assistant Professor	Assistant Professor		Regular	Yes
14	Dr. Manoj Gupta	XXXXXXXX14G	Ph.D	MNIT Jaipur	Design Engineering	01/04/2021	4.9	Associate Professor	Professor	01/01/2025	Regular	Yes
15	Mr. Vaibhav Singh	XXXXXXXX19F	M.Tech	RTU, Kota	Production Engineering	03/06/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes
16	Mr. Jatin Samra	XXXXXXXX20K	M.Tech	MNIT Jaipur	Materials Engineering	03/07/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes
17	Ms. Pinki Mourya	XXXXXXXX87M	M.Tech	RTU, Kota	Production Engineering	04/07/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes
18	Mr. Amit Kumar Sharma	XXXXXXXX58Q	M.Tech	RTU, Kota	Manufacturing Engineering	04/06/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes
19	Mr. Hemant Bansal	XXXXXXXX72J	M.Tech	RTU, Kota	Production Engineering	02/01/2017	8.5	Assistant Professor	Assistant Professor		Regular	No
20	Mr. Kuldeep Sharma	XXXXXXXX02H	M.Tech	MJRPU Jaipur	Mechanical	25/08/2006	19.4	Assistant Professor	Assistant Professor		Regular	Yes

21	Mr. Rajendra Kumar Gupta	XXXXXXXX05J	M.Tech	Jagannath University Jaipur	Manufacturing Engineering	17/09/2007	16.9	Assistant Professor	Assistant Professor		Regular	No
22	Mr. Akhil Vijay	XXXXXXXX72D	M.Tech	Jagannath University Jaipur	Production Engineering	24/07/2012	11.11	Assistant Professor	Assistant Professor		Regular	No
23	Mrs. Palak Jindal	XXXXXXXX56J	M.Tech	Kurushetra University, Kurushetra, Haryana	Industrial & Production Engineering	02/01/2017	7.7	Assistant Professor	Assistant Professor		Regular	No
24	Mr. Ravi Yadav	XXXXXXXX76R	M.Tech	RTU, Kota	Production Engineering	27/07/2012	12.9	Assistant Professor	Assistant Professor		Regular	No
25	Mr. Jitendra Gupta	XXXXXXXX71G	M.Tech	RTU, Kota	Production Engineering	25/03/2014	11.5	Assistant Professor	Assistant Professor		Regular	No
26	Mr. Utpal Chakarvarty	XXXXXXXX25R	M.Tech	NIMS University Jaipur	Industrial Engineering	04/01/2007	18	Assistant Professor	Assistant Professor		Regular	No
27	Dr Manish Shrivastava	XXXXXXXX35A	Ph.D	Jiwaji University Gwalior	Industrial Engineering	21/07/2014	11.5	Associate Professor	Associate Professor		Regular	Yes
28	Mr. Manish Jain	XXXXXXXX57E	M.Tech	MNIT Jaipur	Manufacturing Engineering	07/08/2001	24.5	Associate Professor	Associate Professor		Regular	Yes

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	32	33	62
UG1.C	33	62	123
UG1.D	62	123	123
UG1: Mechanical Engineering	127	218	308
DS=Total no. of students in all UG and PG programs in the Department	127	218	308
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 127	S2= 218	S3= 308
DF=Total no. of faculty members in the Department	21	20	24
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 21	F2= 20	F3= 24
FF=The faculty members in F who have a 100% teaching load in the first-year courses	8	6	4
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 9.77	SFR2= 15.57	SFR3= 15.40
Average SFR for 3 years	SFR= 13.58		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 * [(10X + 4Y) / RF]$
2025-26(CAY)	6	15	6.00	50.00
2024-25(CAYm1)	6	14	10.00	29.00
2023-24(CAYm2)	6	18	15.00	22.00

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	1.00	5.00	1.00	1.00	4.00	15.00
2024-25	1.00	2.00	2.00	4.00	7.00	14.00
2023-24	1.00	2.00	3.00	4.00	10.00	18.00
Average	RF1=1.00	AF1=3.00	RF2=2.00	AF2=3.00	RF2=7.00	AF2=15.67

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	RITIK CHAUDHARY	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	18.00
2	HARSH JAIN	visiting faculty	Fiat Consultancy Services	C++, DSA Programming	12.00
3	NITESH RAI	visiting faculty	Fiat Consultancy Services	Verbal and Written Communication	12.00
4	Reeta Bisht	visiting faculty	Fiat Consultancy Services	Public Speaking and Effective Communication	6.00
5	Sumit Shukla	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	12.00
6	Suchit Godara	visiting faculty	Fiat Consultancy Services	Motivational and Confidence Building Session	3.00
7	Sharad Gupta	visiting faculty	Galgotias University, Greater Noida	Faculty Development Program	8.00
8	Sheeshpal Choudhary	visiting faculty	Aryan Informatix Pvt Ltd.	Programming Languages	8.00
9	Rahul Khandelwal	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	8.00
10	Sachin Bhosale	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	10.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	HARSH JAIN	visiting faculty	Fiat Consultancy Services	C++, DSA Programming	12.00
2	NITESH RAI	visiting faculty	Fiat Consultancy Services	Verbal and Written Communication	12.00
3	Sumit Shukla	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	12.00
4	Suchit Godara	visiting faculty	Fiat Consultancy Services	Motivational and Confidence Building Session	3.00
5	Sheeshpal Choudhary	visiting faculty	Aryan Informatix Pvt Ltd.	Programming Languages	8.00
6	Mr. Jitendra Singh	visiting faculty	Aryan Informatix Pvt Ltd.	Competitive Programming and DBMS	6.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	RITIK CHAUDHARY	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	18.00
2	Suchit Godara	visiting faculty	Fiat Consultancy Services	Motivational and Confidence Building Session	3.00
3	Sharad Gupta	visiting faculty	Galgotias University, Greater Noida	Faculty Development Program	8.00
4	Rahul Khandelwal	visiting faculty	Fiat Consultancy Services	Quantitative Aptitude and Logical Reasoning	8.00
5	Sheeshpal Choudhary	visiting faculty	Aryan Informatix Pvt Ltd.	Programming Languages	15.00

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	7	7	11
2	No. of peer reviewed conference papers published	22	13	7
3	No. of books/book chapters published	1	3	2

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Shruti Kalra	Dr. Mahendra Pratap Singh, Mr. Manish Jain, Mr. Mukesh Agarwal,	MECHANICAL ENGINEERING	Up-Skilling and Logic Learning for the Youth of Jaipur Rural Area: An Endeavour to Enhance Learning through Scientific Convention	National Council for Science and Technology Communication (NCSTC), DST, GOI	ONE YEAR	21.34
						Amount received (Rs.):21.34

(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. Shruti Kalra	Mr. Manish Jain, Mr. Mukesh Agarwal, Dr. Dr. Mahendra Pratap Singh		Up-Skilling and Logic Learning for the Youth of Jaipur Rural Area: An Endeavour to Enhance Learning through Scientific Convention	National Council for Science and Technology Communication (NCSTC), DST, GOI	One Year	21.34
						Amount received (Rs.):21.34

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 42.68**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. Fauzia Siddiqui	NA	Mechanical Engineering	Industry 4.0 in Cargo Business	DBC Oceanic-Maritime Business	2 Years	2.00
Mr. Lalit Kumar Sharma	Dr. S K Singh, Mr Yogesh Dubey	Mechanical Engineering	Modern Tools in Injection Moulding	Bliss PET, Jaipur	2 Years	4.50
						Amount received (Rs.):6.50

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Bhuvnesh Bhardwaj	NA	Mechanical Engineering	Material and Manufacturing	PI Technology	2 Years	1.43
Dr. Manoj Gupta	Dr. S K Singh	Electrical & Mechanical Engineering	Application of Softwares in Jewellery Design and Manufacturing	Jitesh Gems & Jewellers	1 Year	1.00
						Amount received (Rs.):2.43

(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. Mahendra Pratap Singh	NA	Mechanical Engineering	Component Level Analysis of Electric Vehicles	BABA Automobile Pvt. Ltd. Jaipur	2 Years	0.60
						Amount received (Rs.):0.60

Total amount (Lacs) received for the past 3 years: 9.53**Note*:**

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Mahendra Pratap Singh	Brake Drum Manufacturing Device	6 months	0.40	0.40	Patent Published
Dr. Manoj Gupta	Car design, testing	6 months	2.00	2.00	designed car
			Amount received (Rs.): 2.40		

(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. Mahendra Pratap Singh	Quilt Manufacturing Device	6 months	0.45	0.45	Patent Published
Dr. Manmohan Siddh	Patent Related research and development	6 months	0.44	0.44	Patent Published
Dr. Bhuvnesh Bhardwaj	Steering Simulation Training System	6 months	0.20	0.20	Patent Published
Dr Manish Srivastava	Rider Safety System For Two-Wheeler	6 months	0.22	0.22	Patent Published
Dr. Manoj Gupta	Fluid Pipeline Leakage Detection And Repairing System	6 months	0.20	0.20	Patent Published
Dr. Manoj Gupta	Car designe and manufacturing	6 months	2.00	1.51	design and working model
			Amount received (Rs.): 3.51		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Mahendra Pratap Singh	Patent related research and development	1 year	0.83	0.83	4 patent published
Dr. Bhuvnesh Bhardwaj	Patent related research and development	1 year	0.45	0.45	2 patent published
Dr. Fauzia Siddiqui	Patent related research and development	1 year	1.24	1.24	3 patents published
Mr. Lalit Kumar Sharma	Patent related research and development	1 year	0.60	0.60	2 patent published
Mr Yogesh Dubey	Patent related research and development	1 year	0.24	0.24	patent published
Mr. Manish Jain	Patent related research and development	1 year	0.22	0.22	patent published
Dr, Manoj Gupta	Patent related research and development	1 year	0.20	0.20	patent published
Mr. Abhishek Kumar	Patent related research and development	1 year	0.20	0.20	patent published
Mr. Nitin Chhabra	Patent related research and development	1 year	0.22	0.22	patent published
Dr. Manoj Gupta	car design and implementation	6 months	2.00	2.00	on road car testing
			Amount received (Rs.): 6.20		

Total amount (Lacs) received for the past 3 years : 12.11

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

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Machine Drawing Practice (3ME4-21)	15	• Drawing table • Drawing Board • Auto	6	Mr. Lokesh Sh	Senior Lab Te	Diploma in Me
2	Material Testing Laboratory	15	• Crystal Structures (model) Specimens • Specimen Polishing Machine • Carbon Sulphur	6	Mr. Lokesh Sh	Senior Lab Te	Diploma in Me
3	Basic Mechanical Engineering Laboratory	15	• Bicycle • Sewing machine • Air – Conditioner • Engines (2 stroke & 4 Stroke) • Pump	6	Mr. Hanuman	Senior Lab Te	ITI in Fitter
4	Programming Using MATLAB	15	• MATLAB Software	6	Mr. Bir Singh	Senior Lab Te	MCA
5	Digital Electronics Laboratory	15	• Scientific Digital Kit • Digital Trainer Kit	6	Mr. Sitaram S	Lab Instructor	Diploma in Ele
6	Fluid Mechanics Laboratory	15	• Meta- Centric Height Apparatus • Apparatus for coefficient of friction Experiments	6	Mr. Pawan Kur	Lab Tech	Diploma in Me
7	Production Practice Laboratory	15	• Lathe Machine • Milling Machine • Capstan Lathe Machine • Tool Grinder	6	Mr. Rajendra S	Senior Lab Te	ITI in Fitter
8	Theory of Machine Laboratory	15	• Four Bar Chain Model • Slider Crank Mechanism Model • Crank Mechanism • Gaiter	6	Mr. Narendra S	Senior Lab Te	Diploma in Me
9	Mechatronics Laboratory	15	• MAT LAB • Transducer Kit	4	Mr. Bir Singh	Senior Lab Te	MCA
10	Heat Transfer Laboratory	15	• Thermal conductivity of Insulating Powder • Thermal conductivity of Metal Rod • Dia	4	Mr. Lokesh Sh	Senior Lab Te	Diploma in Me
11	Production Engineering Laboratory	15	• Various Measuring Tools (Dial Gauge, Micrometer, Vernier Caliper, Telescope Gauge) • Round	4	Mr. Narendra S	Senior Lab Te	Diploma in Me
12	CIMS Laboratory	15	• SSCNC SOFTWARE	6	Mr. Bir Singh	Senior Lab Te	MCA
13	Vibration Laboratory	15	• Simple Pendulum • Compound Pendulum • Trifler Suspension • Riffle Suspension • Universal	6	Mr. Pawan kur	Lab Tech	Diploma in Me
14	Thermal Engg Laboratory -I	15	• Model Four Stroke Petrol Engine • Model Four Stroke Diesel Engine • Model Two Stroke Petrol	6	Mr. Hanuman	Senior Lab Te	ITI in Fitter
15	FEA Laboratory	15	• MAT Lab • ANSYS	6	Mr. Bir Singh	Senior Lab Te	MCA
16	Thermal Engg Laboratory - II	15	• Four Stroke Four Cylinder Diesel Engine Test Rig. With electric dynamometer • Two Stroke	6	Mr. Ashish Ga	Lab Tech	Diploma in Me
17	Quality Control Laboratory	15	• Charts. • Props related to probability • Stop watch	4	Mr. Hemant N	Senior Lab Te	ITI in Fitter
18	Industrial Engineering Laboratory	15	• Stop Watch • Charts • Props related to probability	4	Mr. Hemant N	Senior Lab Te	ITI in Fitter
19	Metrology Laboratory	15	• Various Measuring Tools (Dial Gauge, Micrometer, Vernier Caliper, Telescope Gauge) • Round	4	Mr. Narendra S	Senior Lab Te	Diploma in Me
20	Computer Aided Engineering Graphics	15	• Drawing table • Drawing Board • Auto Cad Computer	36	Mr. Bir Singh	Senior Lab Te	MCA
21	Manufacturing Practices Workshop (1FY3-25)	15	• Lathe Machine • Electric Arc Welding Machine • Gas Welding • Bench Vice • Cold Chisel	36	Mr. Narendra S	Senior Lab	Diploma in Me

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Manufacturing Practices Workshop	Laboratory rules and safety regulations displayed; Do's & Dont's boards; First Aid box; Fire extinguisher for fires; Fire buckets/sand buckets, Proper earthing of machines; MCBs in control panels, Insulated wiring and switchboards, Safe distance maintained from rotating parts, Machine guards on rotating parts, Emergency stop switches, Protective covers for belts, gears and couplings, Safety goggles/face shields, Apron, Hand Gloves (leather/heat resistant).
2	Computer Aided Engineering Graphics Lab	Proper earthing of systems; Restricted access to power panels; Clean and organized workspace; Fire extinguisher available; Do's & Dont's boards
3	Computer Aided Machine Drawing Lab	Proper earthing of systems; Restricted access to power panels; Clean and organized workspace; Fire extinguisher available; Do's & Dont's boards
4	Machine Drawing Practice Lab	Safe handling instructions for drawing tools; Adequate lighting and ventilation; Do's & Dont's boards
5	Basic Mechanical Engineering Lab	Safety instructions displayed; Adequate lighting and ventilation; Do's & Dont's boards; First Aid box
6	Material Testing Lab	Safety instructions displayed; Emergency shutdown procedure; Fire extinguisher, Load application only under supervision; Do's & Dont's boards
7	Programming using MATLAB Lab	Proper earthing of systems; Restricted access to power panels; Clean and organized workspace; Fire extinguisher available; Do's & Dont's boards
8	Digital Electronics Lab	Insulated wiring; Proper earthing; Fire extinguisher for electrical fire; Do's & Dont's boards
9	Fluid Mechanics Lab	Non-slip flooring around experimental setups, Secure pipe fittings to prevent leakage , Electrical panels isolated from wet areas; Do's & Dont's boards
10	Production Practice Lab	Laboratory rules and safety regulations displayed; Do's & Dont's boards; First Aid box; Fire extinguisher for fires; Fire buckets/sand buckets, Proper earthing of machines; MCBs in control panels, Insulated wiring and switchboards, Safe distance maintained from rotating parts, Machine guards on rotating parts, Emergency stop switches, Protective covers for belts, gears and couplings, Safety goggles/face shields, Apron, Hand Gloves (leather/heat resistant).
11	Theory of Machines Lab	Guarding of moving components; Safety instruction display, Controlled speed operation; Do's & Dont's boards
12	Mechatronics Lab	Insulated wiring; Proper earthing; Fire extinguisher for electrical fire; Do's & Dont's boards
13	Heat Transfer Lab	Insulated hot surfaces; Fire extinguisher and emergency shutdown provision; Do's & Dont's boards

14	Machine Design Practice Lab I & II	Adequate lighting and ventilation; Do's & Dont's boards
15	Production Engineering Lab	Laboratory rules and safety regulations displayed; Do's & Dont's boards; First Aid box; Fire extinguisher for fires; Fire buckets/sand buckets, Proper earthing of machines; MCBs in control panels, Insulated wiring and switchboards, Safe distance maintained from rotating parts, Machine guards on rotating parts, Emergency stop switches, Protective covers for belts, gears and couplings, Safety goggles/face shields, Apron, Hand Gloves (leather/heat resistant).
16	Computer Integrated Manufacturing Systems Lab	Proper earthing of systems; Restricted access to power panels; Clean and organized workspace; Fire extinguisher available; Do's & Dont's boards
17	Vibration Lab	Secure mounting of test rigs; Adequate lighting and ventilation; Guarding of moving components; Do's & Dont's boards
18	Thermal Engineering Lab I & II	Safe distance maintained from rotating parts, Fire extinguisher; Do's & Dont's boards
19	Finite Element Analysis Lab	Proper earthing of systems; Restricted access to power panels; Clean and organized workspace; Fire extinguisher available; Do's & Dont's boards
20	Quality Control Lab	Safe handling of precision instruments; Clean workspace; Do's & Dont's boards
21	Industrial Engineering Lab	Ergonomic safety guidelines; Do's & Dont's boards
22	Metrology Lab	Safe handling of precision instruments; Clean workspace; Do's & Dont's boards

D3. Project Laboratory/Research Laboratory

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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 $\frac{((NS1*0.8) + (NS2*0.2))}{(No. of required faculty (RF4))}$; Percentage= $\frac{((NS1*0.8) + (NS2*0.2))}{RF}$
2023-24(CAYm2)	990	50	31	23	59
2024-25(CAYm1)	1290	64	40	24	58
2025-26(CAY)	1590	80	56	27	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 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	20000000.00	21313365.00	90000000.00	92476553.00	20000000.00	26977213.00	10000000.00	17054851.00
Library	300000.00	314885.00	3800000.00	3876797.00	600000.00	675381.00	400000.00	409519.00
Laboratory equipment	1800000.00	1889949.00	10000000.00	10309765.00	9500000.00	9764906.00	5000000.00	5202514.00
Teaching and non-teaching staff	200000000.00	161572388.00	160000000.00	178286916.00	150000000.00	153809670.00	120000000.00	129699456.00
Outreach Programs	2000000.00	2013625.00	6200000.00	6486846.00	3700000.00	3795272.00	3200000.00	3514606.00
R&D	1650000.00	1860376.00	1500000.00	1524106.00	1600000.00	1708670.00	2100000.00	1818399.00
Training, Placement and	4200000.00	4400257.00	4000000.00	4122256.00	2600000.00	2794448.00	1800000.00	1873957.00
SDGs	7500000.00	7803057.00	7000000.00	7195149.00	400000.00	456287.00	1200000.00	1383425.00
Entrepreneurship	700000.00	707188.00	400000.00	435367.00	300000.00	373677.00	70000.00	75169.00
Others, specify	150000000.00	93726845.66	200000000.00	222890455.25	150000000.00	151938600.51	210000000.00	217696017.63
Total	388150000.00	295601935.66	482900000.00	527604210.25	338700000.00	352294124.51	353770000.00	378727913.63

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	300000	257000	200000	132987	200000	110000	200000	125000
Software	500000	629999	500000	599888	200000	0	100000	0
SDGs	50000	45000	50000	52000	50000	18000	50000	0
Support for faculty development	50000	50000	50000	48000	50000	30000	50000	30000
R & D	700000	500000	500000	403938	500000	341000	500000	467000
Industrial Training, Industry expert,	100000	99000	150000	142900	150000	135125	180000	180000
Miscellaneous Expenses*	80000	47000	80000	44000	80000	56000	80000	68000
Total	1780000	1627999	1530000	1423713	1230000	690125	1160000	870000