

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: 11243	Date of Submission: 05-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: Government Engineering College, Buxar	
Year of Establishment : 2019	Location of the Institute: Buxar
A2. Institute Address: Village- Mahdah, Itarhi road, P.O.- Gajadhar Ganj, Near police line Buxar,Pin- 802103	
City:Buxar	State:Bihar
Pin Code:802103	Website:www.gecbuxar.ac.in
Email:gecbuxar1@gmail.com	Phone No(with STD Code):061-83297194
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Bihar Engineering University Patna	City: Patna
State : Bihar	Pin Code: 800001
A4. Type of the Institution: Non-Autonomous (Affiliated)	
A5. Ownership Status: State Government	

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

- No. of UG programs: 5
- 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	Civil Engineering	2019	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	2023	--	Computer Science and Engineering
3	Engineering & Technology	UG	Electrical Engineering	2019	--	Electrical Engineering
4	Engineering & Technology	UG	Electronics & Communication Engineering	2019	--	Electronics and Communication Engineering
5	Engineering & Technology	UG	Mechanical Engineering	2019	--	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
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Electrical Engineering	No	Electrical Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication 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	2019 / --	60	No	NA	60	2019	1-5080628101

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 :	Gaurav
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	60
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	41	26	2	3	5	7	15
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	20	3	18	27	36	4
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.	41	46	5	21	32	43	19

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	60	41	0	68.33
2024-25 (CAYm1)	60	26	0	43.33
2023-24 (CAYm2)	60	2	0	3.33

Average [(ER1 + ER2 + ER3) / 3] = 38.33± 0.00

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).	87.00	96.00	64.00
B=No. of students who graduated from the program in the stipulated course duration	24.00	37.00	18.00
Success Rate (SR)= (B/A) * 100	27.59	38.54	28.12

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 31.42

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	6.38	2.09	8.18
Y=Total no. of successful students	25.00	0.00	1.00
Z=Total no. of students appeared in the examination	25.00	1.00	3.00
API [X*(Y/Z)]	6.38	0.00	2.73

Average API[(AP1+AP2+AP3)/3] : 3.04

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.28	7.09	6.78
Y=Total no. of successful students	3.00	18.00	25.00
Z=Total no. of students appeared in the examination	3.00	19.00	32.00
API [X * (Y/Z)]	7.28	6.72	5.30

Average API [(AP1 + AP2 + AP3)/3] : 6.43

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)	6.94	7.44	7.47
Y=Total no. of successful students	18.00	24.00	37.00
Z=Total no. of students appeared in the examination	18.00	25.00	39.00
API [X*(Y/Z)]:	6.94	7.14	7.09

Average API [(AP1 + AP2 + AP3)/3] : 7.06

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	87.00	96.00	64.00
X=No. of students placed	15.00	11.00	9.00
Y=No. of students admitted to higher studies	0.00	3.00	1.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	17.24	14.58	15.62

Average Placement Index = (P_1 + P_2 + P_3)/3: 15.81 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)
1	Gaurav	XXXXXXX03C	Ph.D	Indian Institute of Technology Delhi	Materials Science	15/03/2024	1.8	Assistant Professor	Assistant Professor		Regular	Yes
2	Gautam Kumar	XXXXXXX69R	M.Tech	Indian Institute of Technology (ISM) Dhanbad	Manufacturing	18/04/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes
3	Ram Naresh Rai	XXXXXXX97C	Ph.D	Indian Institute of Technology KHARAGPUR	Manufacturing	01/02/2024	1.10	Professor	Professor		Regular	Yes
4	Ravindra Nath Yadav	XXXXXXX58J	Ph.D	Motilal Nehru National Institute of Technology Allahabad, UP	Manufacturing Technology	15/07/2024	1.4	Associate Professor	Associate Professor		Regular	Yes
5	Shyam Lal	XXXXXXX35B	Ph.D	Jamia Millia Islamia	Manufacturing	11/09/2023	2.2	Associate Professor	Associate Professor		Regular	Yes
6	Gurav Parmar	XXXXXXX68Q	M.Tech	NIFFT Ranchi	Manufacturing Technology	20/04/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes
7	Santosh Kumar	XXXXXXX94B	M.Tech	IIT Roorkee	Welding Technology	18/04/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes
8	Abhishek Kumar	XXXXXXX89A	M.Tech	Indian Institute of Technology (ISM) Dhanbad	Manufacturing	20/04/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes
9	Vijay Kumar	XXXXXXX78C	M.Tech	AISECT University, Raisen, MP	Thermal Engineering	19/04/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes
10	Ritesh Kumar	XXXXXXX27J	M.Tech	Maulana Azad National Institute of Technology, Bhopal, M.P.	Thermal Engineering	20/04/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes
11	MD. Ahmad	XXXXXXX72N	M.Tech	Motilal Nehru National Institute of Technology Allahabad, UP	Fluid Mechanics	17/08/2023	2.3	Assistant Professor	Assistant 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	66	63	66
UG1.C	63	66	66
UG1.D	66	66	66
UG1: Mechanical Engineering	195	195	198
DS=Total no. of students in all UG and PG programs in the Department	195	195	198
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= 195	S2= 195	S3= 198
DF=Total no. of faculty members in the Department	11	11	7
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= 11	F2= 11	F3= 7
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 17.73	SFR2= 17.73	SFR3= 28.29
Average SFR for 3 years	SFR= 21.25		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	4	7	9.00	18.89
2024-25(CAYm1)	4	7	9.00	18.89
2023-24(CAYm2)	0	7	9.00	7.78

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	1.00	2.00	2.00	6.00	8.00
2024-25	1.00	1.00	2.00	2.00	6.00	8.00
2023-24	1.00	0.00	2.00	0.00	6.00	7.00
Average	RF1=1.00	AF1=0.67	RF2=2.00	AF2=1.33	RF2=6.00	AF2=7.67

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	NA	NA	NA	NA	0.00

(CAYm2)

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

(CAYm3)

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

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	10	0	0
2	No. of peer reviewed conference papers published	0	0	0
3	No. of books/book chapters published	2	0	0

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

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

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
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NA	NA	NA	NA	NA	NA	0.00
						Amount received (Rs.):0.00

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

Note*:

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

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

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

(CAYm1)

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

(CAYm2)

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

(CAYm3)

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

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

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

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Workshop	5	1.Bench Vice 2.Pipe Vice 3.Lathe Machine 4.Universal Milling Machine 5.Drill Press Machine 6.Hand drill	12 Slots per week	Subhash Kum	Lab Instructor	ITI (Fitter) ITI
2	Engineering Mechanics Lab	5	1.Universal Force Table 2.Friction Slide Apparatus with Weight 3.Digital Force Apparatus 4.Centrifugal Force Apparatus	4 slots per week	Ashish Kumar	Lab Assistant	Diploma (ME)
3	Strength of Materials Lab	5	1.Verification of Maxwell's reciprocal theorem 2.Impact Testing Machine 3.Digital Fatigue Testing Machine	4 slots per week	Deepak Kuma	Lab Assistant	Diploma (ME)

4	Fluid Machinery Lab	5	1.Pelton test Turbine Ring 2.Francis Turbine Test Ring 3.Kaplan Turbine Test Ring 4. Motorized Governor	4 slots per week	Deepak Kuma	Lab Assistant	Diploma (ME)
5	Design of Machine Elements Lab	5	1.Journal Bearing Test Ring 2.Data logger	4 slots per week	Ashish Kuma	Lab Assistant	Diploma (ME)
6	Dynamics of Machinery Lab	5	1.Slip & Creep Measurement Apparatus 2.Motorized Governor	4 slots per week	Deepak kuma	Lab Assistant	Diploma (ME)
7	Internal Combustion Engines Lab	5	1.Single Cylinder Four Stroke Pet 2.Tachometer	4 slots per week	Ashish kumar	Lab Assistant	Diploma (ME)
8	Manufacturing Technology Lab	5	1.Slip Gauge Complete Set 2.Vernier Caliper 3.Micrometer: 4.Sine Bar	4 Slots per week	Deepak Kuma	Lab Assistant	Diploma (ME)

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Workshop	- Wear safety shoes, apron, goggles, and gloves before starting work. - Do not wear loose clothes, jewelry, or keep long hair open. - Operate machines only with instructor permission and supervision. - Ensure machine guards, earthing, and emergency stop are functional. - Clamp workpieces securely before machining or cutting operations. - Keep hands away from rotating parts, sharp edges, and hot surfaces. - Remove chips and swarf using brush or tool only. - Ensure proper ventilation during welding and foundry operations. - Do not operate electrical equipment with wet hands or damaged cables. - After work, switch off machines, clean area, and return tools.
2	Engineering Mechanics Lab	- Experimental setup checked for stability. - Loads applied gradually and within limits. - Students maintain safe distance during loading. - Weights handled carefully to avoid injury. - Proper alignment of apparatus ensured. - No overloading of members or frames. - Clear workspace maintained around setup. - Faculty supervision ensured during experiments.
3	Strength of Materials Lab	- Testing machines operated under supervision. - Specimens properly mounted and aligned. - Machine capacity limits strictly followed. - Safety shields used during fracture tests. - Students stand clear during loading. - Machine stopped before changing specimens. - Emergency stop switches kept functional. - Proper handling of broken specimens ensured.
4	Fluid Machinery Lab	- Proper priming of pumps ensured before operation. - Electrical connections and earthing checked. - Rotating shafts and couplings not touched. - Valves operated gradually. - Water leakage cleaned immediately. - Equipment operated at rated speed only. - Loose clothing avoided near rotating parts. - Power supply switched off after use.
5	Design of Machine Elements Lab	- Components properly mounted before testing. - Overloading of mechanical elements avoided. - Moving parts kept covered where required. - Hands kept away from rotating elements. - Proper tools used for assembly and dismantling. - Alignment checked before operation. - Loose clothing and accessories avoided. - Power supply switched off before adjustments.
6	Dynamics of Machinery Lab	- Rotating and reciprocating parts securely fixed. - Experiments conducted at specified speeds. - Loose clothing and long hair restricted. - Students maintain safe distance during operation. - No manual contact with moving parts. - Balancing checked before starting machines. - Adjustments done only after stopping machine. - Faculty supervision ensured
7	Internal Combustion Engines Lab	- Safety shoes, gloves, and goggles are mandatory. - Adequate ventilation is ensured to remove exhaust gases. - Fuel lines and connections are checked for leakage. - No smoking or open flames are allowed in the lab. - Hot engine parts are not touched immediately after operation. - Fire extinguishers are kept readily available. - Proper engine starting and shutdown procedures are followed. - Engine is switched off before adjustments or measurements.
8	Automobile Engineering Lab	- Safety shoes, gloves, and goggles are mandatory in the laboratory. - Vehicles are properly supported using stands before any work. - Engines are operated only in well-ventilated areas. - Loose clothing, jewelry, and accessories are avoided. - Fuel, lubricants, and batteries are handled carefully. - Hands are kept away from moving and rotating parts. - Proper tools are used for maintenance and testing. - Engine is switched off before adjustments or measurements

9	Manufacturing Technology Lab	• Safety shoes, goggles, and apron are mandatory during laboratory work. • Measuring instruments and optical devices are handled carefully to avoid damage and injury. • Workpieces are properly cleaned and deburred before measurement. • Proper clamping and alignment are ensured before conducting experiments. • Hands are kept away from rotating parts during cutting force measurements. • Electrical connections of instruments are checked before operation. • Loose clothing, jewelry, and accessories are avoided in the laboratory. • Instruments are switched off and stored properly after use under faculty supervision.
10	Project lab	• Wear appropriate personal protective equipment (PPE) such as safety shoes, goggles, gloves, and lab coat. • Operate machines and tools only under the guidance of the instructor or lab in-charge. • Ensure machine guards, shields, and safety devices are properly fixed before operation. • Avoid loose clothing, jewelry, and unsecured hair near rotating or moving parts. • Use proper tools, fixtures, and measuring instruments suitable for the project work. • Maintain cleanliness and proper housekeeping to prevent slips, trips, and accidents. • Check electrical connections and proper earthing before using motors, controllers, or electronic equipment. • Switch off power supply after work and immediately report any accident, hazard, or equipment malfunction to the lab in-charge.

D3. Project Laboratory/Research Laboratory

PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2023-24(CAYm2)	360	18	2	7	17
2024-25(CAYm1)	360	18	7	14	47
2025-26(CAY)	360	18	7	14	47

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	1910000	164496	650000	521100	200000	0	198000	0
Library	1000000	999863	575000	524841	650000	645488	520000	499940
Laboratory equipment	22235252	18434354	80332160	78994571	9780871	9386119	300000	186879
Teaching and non-teaching staff salary	79010000	55644157	61304000	58575459	40350000	32671058	11696580	8423974
Outreach Programs	0	0	0	0	52500	52500	0	0
R&D	0	0	0	0	0	0	0	0
Training, Placement and Industry linkage	41250	41250	38500	38500	53755	53755	0	0
SDGs	0	0	0	0	0	0	0	0

Entrepreneurship	0	0	0	0	0	0	0	0
Others, specify	28707315	20808445	22683000	21031079	60906948	54683460	10116291	7019395
Total	132903817	96092565	165582660	159685550	111994074	97492380	22830871	16130188

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	8000000	35252	19500000	19453268	0	0	0	0
Software	0	0	592810	592809	0	0	0	0
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	0	0	0	0	0	0	0	0
R & D	0	0	0	0	0	0	0	0
Industrial Training, Industry expert,	0	0	0	0	0	0	0	0
Miscellaneous Expenses*	0	0	0	0	0	0	0	0
Total	8000000	35252	20092810	20046077	0	0	0	0