

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 : 11644	Date of Submission : 18-03-2026

PART A- Profile of the Institute

A1.Name of the Institute: EASA COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2008	Location of the Institute: Coimbatore
A2. Institute Address: NH - 47, Palakkad Main Rd, Navakkarai P.O, Kandhe Gounden Chavadi, Tamil Nadu 641105	
City:Coimbatore	State:Tamil Nadu
Pin Code:641105	Website:www.easacollege.com
Email:dean.qa@ecetonline.com	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : ANNA UNIVERSITY	City: Chennai
State : Tamil Nadu	Pin Code: 641105
A4. Type of the Institution: Autonomous CAY(2024-25)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **10**
- No. of PG programs: **7**

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	Agricultural Engineering	2020	--	Agricultural Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
3	Engineering & Technology	UG	Biomedical Engineering	2024	--	Biomedical Engineering
4	Engineering & Technology	PG	Communication Systems	2012	--	Electronics and Communication Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering	2008	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2024	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
8	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2022	--	Computer Science and Engineering (Cyber Security)
9	Engineering & Technology	PG	Construction Engineering & Management	2014	--	Civil Engineering
10	Engineering & Technology	UG	Electrical & Electronics Engineering	2024	--	Electrical and Electronics Engineering
11	Engineering & Technology	UG	Electronics & Communication Engineering	2008	--	Electronics and Communication Engineering
12	Engineering & Technology	UG	Information Technology	2017	--	Information Technology
13	Engineering & Technology	PG	Manufacturing Engineering	2014	--	Mechanical Engineering
14	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering

15	Engineering & Technology	PG	Power Electronics and Drives	2012	--	Electrical and Electronics Engineering
16	Engineering & Technology	PG	Structural Engineering	2013	--	Civil Engineering
17	Management	PG	Master of Business Administration	2009	--	Management

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

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

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

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPE AUTHORITY A DETAILS
1	Mechanical Engineering	UG	2009 / --	60	No	NA	60	2009	F.No. Southern/44641555490/2 dated 03-Jan-20

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. RAJESH RUBAN S
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	56	19	33	21	18	18	18
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	3	0	3	0	0	7
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.	56	22	33	24	18	18	25
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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	56	0	93.33
2024-25 (CAYm1)	60	19	0	31.67
2023-24 (CAYm2)	60	33	0	55.00

Average [(ER1 + ER2 + ER3) / 3] = 60.00≡ 11.00

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).	60.00	60.00	67.00
B=No. of students who graduated from the program in the stipulated course duration	18.00	18.00	18.00
Success Rate (SR)= (B/A) * 100	30.00	30.00	26.87

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 28.96

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)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.87	8.56	8.30
Y=Total no. of successful students	15.00	17.00	16.00
Z=Total no. of students appeared in the examination	19.00	33.00	21.00
API [X*(Y/Z)]	6.21	4.41	6.32

Average API[(AP1+AP2+AP3)/3] : 5.65

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)	8.08	8.22	7.78
Y=Total no. of successful students	17.00	19.00	18.00
Z=Total no. of students appeared in the examination	17.00	19.00	18.00
API [X * (Y/Z)]	8.08	8.22	7.78

Average API [(AP1 + AP2 + AP3)/3] : 8.03

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)	8.14	8.33	0.00
Y=Total no. of successful students	19.00	18.00	18.00
Z=Total no. of students appeared in the examination	19.00	18.00	18.00
API [X*(Y/Z)]:	8.14	8.33	0.00

Average API [(AP1 + AP2 + AP3)/3] : 5.49

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	60.00	60.00	67.00
X=No. of students placed	14.00	15.00	12.00
Y=No. of students admitted to higher studies	2.00	0.00	2.00
Z= No. of students taking up entrepreneurship	2.00	3.00	4.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	30.00	30.00	26.87

Average Placement Index = (P_1 + P_2 + P_3)/3: 28.96 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 Assoc (Regu Contra Ad ho
1	Dr. ROBERT KENNEDY Z	XXXXXXXX10H	Ph.D	Bharathiyar University	Thermal Engineering	05/08/2013	12.7	Professor	Professor	05/08/2013	Regula
2	Dr. VIJAYAKUMAR M	XXXXXXXX65P	Ph.D	Anna University	Thermal Engineering	15/03/2024	1.2	Professor	Professor	15/03/2024	Regula
3	Dr. NATARAJAN N	XXXXXXXX44L	Ph.D	Anna University	Production Engineering	27/11/2024	1.3	Professor	Professor	27/11/2024	Regula
4	Dr. SANTHOSH S	XXXXXXXX22L	Ph.D	Indian Institute of Information Technology, Design and Manufacturing Kancheepuram, Chennai	Manufacturing Engineering	02/06/2025	0.9	Professor	Professor	02/06/2025	Regula
5	Dr. RAJESH RUBAN S	XXXXXXXX51R	Ph.D	Karunya Institute of Technology and Sciences University	Engineering Design	03/08/2023	2.7	Associate Professor	Associate Professor	03/08/2023	Regula
6	Dr. SUBHASH S	XXXXXXXX28F	Ph.D	Anna University	Engineering Design	18/06/2014	11.8	Assistant Professor	Assistant Professor		Regula
7	Mr. GUNASEKARAN T	XXXXXXXX16D	M.E.	Anna University	Production Engineering	25/05/2023	2.9	Assistant Professor	Assistant Professor		Regula
8	Mr. MUTHUPANDIARAJA M	XXXXXXXX33R	M.E.	Anna University	CAD CAM	01/06/2023	2.9	Assistant Professor	Assistant Professor		Regula
9	Mr. NITHYANANTH R	XXXXXXXX20L	M.E.	Anna University	Engineering Design	17/03/2025	0.11	Assistant Professor	Assistant Professor		Regula
10	Mr. HARI BAALAAJI R A	XXXXXXXX90K	M.E.	Anna University	Engineering Design	24/01/2026	0.1	Assistant Professor	Assistant Professor		Regula
11	Mr. SELVAM S	XXXXXXXX30Q	M.E.	Annamalai University	Thermal Engineering	06/06/2022	3	Assistant Professor	Assistant Professor		Regula
12	Mr. BASKARAN E	XXXXXXXX99N	M.E.	Anna University	Industrial Metallurgy	10/05/2023	2.9	Assistant Professor	Assistant Professor		Regula
13	Mr. RAMADHAS R	XXXXXXXX92K	M.E.	Anna University	CAD CAM	22/06/2015	10.8	Assistant Professor	Assistant Professor		Regula
14	Dr. KANDAVEL N	XXXXXXXX29G	Ph.D	Anna University	Engineering Design	06/12/2019	5.6	Assistant Professor	Associate Professor	01/07/2024	Regula
15	Mr.ARUNKUMAR A	XXXXXXXX51M	M.E.	Anna University	Manufacturing Engineering	27/07/2024	1.7	Assistant Professor	Assistant Professor		Regula

16	Mr. AKILAN T	XXXXXXXX30P	M.E.	Karpagam Academy of Higher Education	Manufacturing Engineering	04/04/2025	0.11	Assistant Professor	Assistant Professor		Regular
17	Mr. JEEVANANTHAM R	XXXXXXXX50F	M.E.	Anna University	CAD CAM	09/01/2026	0.2	Professor	Professor		Regular
18	MR. BABU ARUMUGAM	XXXXXXXX98D	M.E.	Anna University	Production Engineering	01/07/2021	4.8	Assistant Professor	Assistant Professor		Regular
19	Dr. DHANAPAL P	XXXXXXXX74H	Ph.D	Anna University	Manufacturing Engineering	04/07/2019	6.8	Professor	Professor	04/07/2019	Regular
20	Mr. SANTHOSH KUMAR V	XXXXXXXX85A	M.E.	Anna University	Manufacturing SystemS and Management	03/10/2022	3.5	Assistant Professor	Assistant Professor		Regular

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 Department1

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	63	60	62
UG1.C	60	62	60
UG1.D	62	60	66
UG1: Mechanical Engineering	185	182	188
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Manufacturing Engineering	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	221	218	224
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= 221	S2= 218	S3= 224
DF=Total no. of faculty members in the Department	14	14	12
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= 14	F2= 14	F3= 12
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= 14.73	SFR2= 14.53	SFR3= 17.23
Average SFR for 3 years	SFR= 15.50		

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	$FQ = 2.5 \times [(10X + 4Y) / RF]$
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2025-26(CAY)	5	9	11.00	19.55
2024-25(CAYm1)	5	9	10.00	21.50
2023-24(CAYm2)	4	8	11.00	16.36

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ 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 = $2/9 \times$ 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 = $6/9 \times$ 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	4.00	2.00	1.00	7.00	9.00
2024-25	1.00	3.00	2.00	2.00	7.00	9.00
2023-24	1.00	2.00	2.00	1.00	7.00	9.00
Average	RF1=1.00	AF1=3.00	RF2=2.00	AF2=1.33	RF2=7.00	AF2=9.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. SIBI CHAKARAVARTHI S	Partner	Inventive Engineering	Rapid Prototyping	30.00
2	Dr. TAPAS DEBNATH	Scientist C	Centre for Additive and Special Manufacturing Processes	Metrology and Measurement	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. SIBI CHAKARAVARTHI S	Partner	Inventive Engineering	Rapid Prototyping	30.00
2	Dr. TAPAS DEBNATH	Fellow -CITE	Titan Company Limited	Metrology and Measurement	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. SIBI CHAKARAVARTHI S	Partner	Inventive Engineering	Rapid Prototyping	50.00

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	3	2	0
2	No. of peer reviewed conference papers published	4	8	5
3	No. of books/book chapters published	1	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
Dr. S. Santhosh	Dr S Rajesh Ruban	Mechanical Engineering	Establishment of AICTE IDEA Lab	AICTE	2 years	90.00
						Amount received (Rs.):90.00

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 90.00

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Dhanapal P	-	Mechanical Engineering	Design Optimization of Automotive Components using CAE	Bosch India, Coimbatore	10 Months	2.00
Dr. Vijayakumar M	Mr. Gunasekaran T	Mechanical Engineering	Welding Defect Analysis and Process Improvement	L&T Heavy Engineering	5 Months	1.60
Dr. Rajesh Ruban S	Mr. Muthupandiaraja M	Mechanical Engineering	CNC Machining Process Optimization for Productivity Enhancement	Roots Industries, Coimbatore	6 Months	1.80
Dr. Kandavel N	Mr. Santhosh Kumar V	Mechanical Engineering	Design Improvement of Conveyor Drive Assembly	Sri Ganesh Engineering Works, Coimbatore	6 Months	2.00
Mr. Subhash S	Mr. Selvam Sekar	Mechanical Engineering	Lean Manufacturing Implementation for Small Batch Production	Lakshmi Engineering Works	3 Months	3.00
						Amount received (Rs.):10.40

(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
Mr. Baskaran E	Mr. Ramadhas R	Mechanical Engineering	Thermal Analysis of Small Engine Components	Sri Amman Industries, Coimbatore	6 months	2.00
Dr. Kandavel N	Mr. Babu A	Mechanical Engineering	Tool Wear Analysis in Turning Operations	Micro Turners, Coimbatore	6 months	2.70
						Amount received (Rs.):4.70

(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
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 15.10

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. Natarajan N	AI-based Predictive Maintenance for CNC Machines	12 monthd	1.00	0.96	comprehensive learning
Dr. Dhanapal P	Experimental Investigation of Tool Wear in CNC Turning	12 Months	0.82	0.79	-comprehensive learning
Dr. Rajesh Ruban S	Tribological Behavior of Polymer Composites for Industrial Applications	10 months	0.70	0.69	-comprehensive learning
Mr. Subhash S	Optimization of Additive Manufacturing Parameters for Polymer Printing	12 Months	0.89	0.85	-comprehensive learning
			Amount received (Rs.): 3.41		

(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
Mr. Baskaran E	Design Optimization of Gear Systems using CAD/CAE Tools	8 Months	0.80	0.86	comprehensive learning
Mr. Gunasekaran T	Development of Automated Material Handling System	12 Months	1.20	1.11	comprehensive learning
Mr. Muthupandi Raja M	Performance Analysis of IC Engine using Alternative Fuels	6 Months	0.80	0.80	comprehensive learning
Mr. Babu A	Design and Fabrication of Low-cost Agricultural Implements	6 Months	0.70	0.70	comprehensive learning
Mr. Ramadhas R	Design and CAE Analysis of Heat Dissipation Systems using Composite Materials	6 Months	0.65	0.62	comprehensive learning
			Amount received (Rs.): 4.15		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr. Selvam Sekar	Failure Analysis of Boiler Tubes in Thermal Plants	12 months	1.00	0.97	comprehensive learning
Mr. Subhash S	Design and Development of Automated Material Handling System using CAD	12 Months	0.96	0.95	comprehensive learning
Dr. Dhanapal P	Development of Hybrid Composite Materials for Automotive Applications	6 Months	1.30	1.23	comprehensive learning
			Amount received (Rs.): 3.26		

Total amount (Lacs) received for the past 3 years : 10.82

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	Fluid mechanics Lab	30	Turbines, Gear Pumps	4 Hours	Harieshkarthi	Lab Technicia	Diploma in M
2	Manufacturing Technology Lab	30	Centre Lathes Horizontal Milling Machine Surface Grinding Machine	4 Hours	Harieshkarthi	Lab Technicia	Diploma in M

3	Thermal Engineering Laboratory	30	Low speed single cylinder diesel engine Multi-Cylinder Petrol Engine	4 Hours	Priyadharshir	Lab Technician	Diploma in M
4	Heat Transfer Laboratory	30	Composite wall apparatus Stefan Boltzman Apparatus	4 Hours	Priyadharshir	Lab Technician	Diploma in M
5	Metrology and Dynamics Laboratory	30	Govenor apparatus – Watt, Porter, Proell and Hartnell	4 Hours	Harieshkarthi	Lab Technician	Diploma in M
6	C.A.D. / C.A.M. Laboratory	30	Computer nodes or systems (High end CPU with atleast 1 GB main memory) 20 inch and 18 inch	4 Hours	Priyadharshir	Lab Technician	Diploma in M
7	Engineering Practices Laboratory	30	Arc welding unit – 4 , Gas welding unit – 1 Bench Drilling Machine	4 Hours	Harieshkarthi	Lab Technician	Diploma in M
8	Mechatronics and IOT Laboratory	30	Basic Pneumatic Trainer Kit with manual and electrical controls/ PLC Control with SCADA Monitoring	4 Hours	Harieshkarthi	Lab Technician	Diploma in M

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Fluid Mechanics Lab	- The shop floor should be kept clean and dry always and free from dirt of any kind - Always wear tight and fit clothing and shoes - Take adequate care that water is not spill around electrical equipment - Check that all pipes and valves are properly connected - Operate pumps only with guidance or supervision - Turn off all equipment after completing the experiment
2	Engineering Process L lab	- The shop floor should be kept clean always and free from dirt of any kind - Always wear tight and fit clothing and shoes - Use available MCB switches for protection against overload or short circuit - Avoid the use of cell phones inside the lab - Avoid carrying personnel belongings inside the lab - Use proper lighting & ventilation while working.
3	Manufacturing Technology Lab	- The shop floor should be kept clean always and free from dirt of any kind - Always wear tight and fit clothing and shoes - Work only within the working area marked properly for each Equipment. - Avoid the use of cell phones inside the lab - Avoid carrying personnel belongings inside the lab - Use proper lighting & ventilation while working
4	Thermal Engineering Lab	- Use machines only after proper instruction or training - Wear safety shoes and avoid loose clothing - Maintain a safe distance from moving parts - Switch off machines before cleaning or repair - Follow all safety instructions provided for each machine. - The shop floor should be kept clean always and free from dirt of any kind - Always wear tight and fit clothing and shoes - Avoid the use of cell phones inside the lab - Avoid carrying personnel belongings inside the lab - Use proper lighting & ventilation while working
5	Heat Transfer Lab	- Use machines only after proper instruction or training - Wear safety shoes and avoid loose clothing - Use available MCB switches for protection against overload or short circuit - Switch off machines before cleaning or repair - Follow all safety instructions provided for each machine. - The shop floor should be kept clean always and free from dirt of any kind - Always wear tight and fit clothing and shoes - Avoid the use of cell phones inside the lab - Avoid carrying personnel belongings inside the lab - Use proper lighting & ventilation while working
6	Metrology and Dynamics Lab	- Check whether periodical calibration of equipment's is done properly. - Follow basic electrical safety rules - Use machines only after proper instruction or training - Wear safety shoes and avoid loose clothing - Use available MCB switches for protection against overload or short circuit - Follow all safety instructions provided for each machine. - The shop floor should be kept clean always and free from dirt of any kind - Always wear tight and fit clothing and shoes - Avoid the use of cell phones inside the lab - Avoid carrying personnel belongings inside the lab - Use proper lighting & ventilation while working
7	CAD / CAM lab	- Keep the lab clean to avoid contamination - Wear gloves and maintain personal hygiene - Try to remove foot wears before entering into the lab. - Check the computer unit and its peripherals attached before using it. - Permission is denied for pen drives - Immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). - Use machines only after proper instruction or training - Use all equipment carefully and as instructed - Dispose off waste in the correct manner - Use available MCB switches for protection against overload or short circuit - Sign the log-out register before leaving the lab

8	Mechatronics and IOT Lab	• The shop floor should be kept clean always and free from dirt of any kind • Always wear tight and fit clothing and shoes • Wear gloves and maintain personal hygiene • Avoid the use of cell phones inside the lab • Avoid carrying personnel belongings inside the lab • Use proper lighting & ventilation while working • Equipment's should be shutoff properly before leaving the lab. • Students must remove the connections before in the experiment before leaving the lab
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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 ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	420	21	21	4	84
2024-25(CAYm1)	600	30	22	4	61
2025-26(CAY)	600	30	26	5	73

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	15332535	13689763	7566990	6879082	4848530	617648	4965506	4916343
Library	92236	82354	58264	52967	212205	202100	211503	209409
Laboratory equipment	6764933	6040119	6884790	6258900	8239238	7846893	7299121	7226852
Teaching and non-teaching staff	72806160	65005500	56224923	51113566	39576747	37692140	30123288	29825038
Outreach Programs	1071840	957000	1029160	935600	1025866	977015	996896	987026
R&D	4004280	3575250	3853894	3503540	3838604	3655813	3287803	3255250
Training, Placement and	3311616	2956800	3596362	3269420	3598119	3426780	2077368	2056800
SDGs	2217600	1980000	2855600	2596000	2812520	2678590	1272600	1260000
Entrepreneurship	511728	456900	536720	487927	523452	498526	461469	456900
Others, specify	43299054	38659870	38276150	4796500	53668096	51112472	19250469	19059870
Total	149411982	133403556	120882853	79893502	118343377	108707977	69946023	69253488

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	1200000	1125000	850000	790000	800000	710000	600000	535000

Software	250000	235000	180000	150000	150000	128000	100000	82000
SDGs	120000	106000	100000	82000	80000	65000	60000	48000
Support for faculty development	200000	172000	165000	138000	150000	122000	125000	98000
R & D	350000	335000	280000	228000	250000	202000	200000	162000
Industrial Training, Industry expert,	220000	198000	190000	160000	160000	132000	130000	105000
Miscellaneous Expenses*	80000	65000	70000	58000	60000	49000	50000	40000
Total	2420000	2236000	1835000	1606000	1650000	1408000	1265000	1070000