

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 : 11988	Date of Submission : 24-06-2026

PART A- Profile of the Institute

A1.Name of the Institute: MOTHER TERASA COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2009	Location of the Institute: Illuppur Pudukkottai
A2. Institute Address: Mettusalai, Illuppur Post, Pudukkottai district,	
City:Pudukkottai	State:Tamil Nadu
Pin Code:622102	Website:www.mtcet.in
Email:principalmtcet9116@gmail.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: 600025
A4. Type of the Institution: Non-Autonomous (Affiliated)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: 8
- No. of PG programs: 5

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	Artificial Intelligence and Data Science	2022	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
3	Engineering & Technology	PG	Computer Science & Engineering	2013	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Business Systems	2022	--	Computer Science and Business System
5	Engineering & Technology	UG	Computer Science and Engineering	2012	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering
8	Engineering & Technology	PG	Manufacturing Engineering	2013	--	Mechanical Engineering

9	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
10	Engineering & Technology	PG	Power Systems Engineering	2014	--	Electrical and Electronics Engineering
11	Engineering & Technology	UG	Robotics and Automation	2025	--	Robotics and Automation
12	Engineering & Technology	PG	Structural Engineering	2014	--	Civil Engineering
13	Engineering & Technology	PG	VLSI Design	2012	--	Electronics and Communication 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
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Electrical and Electronics Engineering	No	Electrical and Electronics 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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	2009 / --	60	Yes	2022	60	2022	F.NO.Southern/1-10969216077/2022/EOA	Applying first time	--	--	0	4

Sanctioned Intake for Last Five Years for the Manufacturing Engineering	
Academic Year	Sanctioned Intake
2025-26	60
2024-25	60
2023-24	60
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. K. KANNAPIRAN
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	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	25	18	4	11	7	5	30
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	1	0	3	9	44	10
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.	25	19	4	14	16	49	40

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	25	0	41.67
2024-25 (CAYm1)	60	18	0	30.00
2023-24 (CAYm2)	60	4	0	6.67

Average [(ER1 + ER2 + ER3) / 3] = 26.11± 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).	129.00	132.00	130.00
B=No. of students who graduated from the program in the stipulated course duration	2.00	3.00	6.00
Success Rate (SR)= (B/A) * 100	1.55	2.27	4.62

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 2.81

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)	6.40	8.10	6.14
Y=Total no. of successful students	18.00	4.00	11.00
Z=Total no. of students appeared in the examination	18.00	4.00	11.00
API [X*(Y/Z)]	6.40	8.10	6.14

Average API[(AP1+AP2+AP3)/3] : 6.88

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)	6.00	6.68	6.38
Y=Total no. of successful students	3.00	12.00	14.00
Z=Total no. of students appeared in the examination	3.00	13.00	16.00
API [X * (Y/Z)]	6.00	6.17	5.58

Average API [(AP1 + AP2 + AP3)/3] : 5.92

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)	6.61	6.70	6.30
Y=Total no. of successful students	12.00	12.00	47.00
Z=Total no. of students appeared in the examination	12.00	14.00	49.00

Average API [(AP1 + AP2 + AP3)/3] : 4.57

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	129.00	132.00	130.00
X=No. of students placed	12.00	7.00	1.00
Y=No. of students admitted to higher studies	0.00	0.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	9.30	5.30	0.77

Average Placement Index = (P_1 + P_2 + P_3)/3: 5.12 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)	In case of NO, Date of Leaving	IS HOD?
1	P RAJKUMAR	XXXXXXX69C	M.E.	Anna University	Manufacturing Engineering	03/01/2011	15.5	Assistant Professor	Assistant Professor		Regular	Yes		No
2	P SETHURAMAN	XXXXXXX95K	M.E.	Anna University	Engineering Design	25/04/2018	8.2	Assistant Professor	Assistant Professor		Regular	Yes		No
3	V SENTHILPANDIAN	XXXXXXX47D	M.E.	Anna University	INDUSTRIAL ENGINEERING	01/06/2016	10	Assistant Professor	Assistant Professor		Regular	Yes		No
4	R PERIYASAMY	XXXXXXX26R	M.E.	Anna University	CAD/CAM	10/07/2018	7.11	Assistant Professor	Assistant Professor		Regular	Yes		No
5	C.POOMALAI	XXXXXXX80C	M.E.	Anna University	Manufacturing Engineering	10/07/2018	7.11	Assistant Professor	Assistant Professor		Regular	Yes		No
6	A MOORTHY	XXXXXXX92F	M.E.	Anna University	Manufacturing Engineering	15/03/2022	4.3	Assistant Professor	Assistant Professor		Regular	Yes		No
7	R MANIKANDAN	XXXXXXX45B	M.E.	Anna University	Manufacturing Engineering	15/03/2022	4.3	Assistant Professor	Assistant Professor		Regular	Yes		No
8	K SENTHIL KUMAR	XXXXXXX04J	M.E.	Anna University	IC ENGINES	22/03/2024	1.1	Assistant Professor	Assistant Professor		Regular	No	16/05/2025	No
9	MR. VIGNESH P	XXXXXXX60Q	M.E.	Anna University	Engineering Design	19/12/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr.S.MURUGANANDAM	XXXXXXX04P	Ph.D	Anna University	Engineering Design	30/08/2023	2.9	Professor	Professor	30/08/2023	Regular	Yes		No
11	R.PARTHIBAN	XXXXXXX89R	M.E.	Anna University	Manufacturing Engineering	05/07/2024	0.10	Assistant Professor	Assistant Professor		Regular	No	23/05/2025	No
12	R.PRABHURAJ	XXXXXXX02J	M.E.	Anna University	Thermal Engineering	16/04/2024	1	Assistant Professor	Assistant Professor		Regular	No	16/05/2025	No
13	J.MAHEDRAN	XXXXXXX81G	M.E.	Anna University	CAD/CAM	15/07/2023	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
14	C.PRADHEEP	XXXXXXX38Q	M.E.	Anna University	Engineering Design	19/07/2019	6.11	Assistant Professor	Assistant Professor		Regular	Yes		No
15	C.DHANAPAL	XXXXXXX87E	M.E.	Anna University	Engineering Design	03/01/2023	2.4	Assistant Professor	Assistant Professor		Regular	No	21/05/2025	No
16	P.THIRUMURUGAN	XXXXXXX81J	M.E.	Anna University	Engineering Design	01/07/2019	5.11	Assistant Professor	Assistant Professor		Regular	No	19/06/2025	No
17	A.SUDHAN	XXXXXXX24R	M.E.	Anna University	CAD/CAM	24/11/2022	1.5	Assistant Professor	Assistant Professor		Regular	No	24/05/2024	No

18	A.ELMARIUNG	XXXXXX37L	M.E.	Anna University	Manufacturing Engineering	05/07/2018	6.10	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	No
19	M.MANICKAVASAGAM	XXXXXX17Q	M.E.	Anna University	Thermal Engineering	25/05/2017	7	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No
20	M.SELVAKUMAR	XXXXXX22F	M.E.	Anna University	Manufacturing Engineering	01/06/2021	3	Assistant Professor	Assistant Professor		Regular	No	12/06/2024	No
21	N.PARTHASARATHI	XXXXXX53G	M.E.	Anna University	Engineering Design	06/06/2022	1.11	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No
22	C.ARULJEEVA	XXXXXX45A	M.E.	Anna University	Manufacturing Engineering	06/12/2021	2.5	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No
23	S.ELAIARAJA	XXXXXX65B	M.E.	Anna University	CAD/CAM	16/08/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Dr. K. KANNAPIRAN	XXXXXX66J	Ph.D	ANNA UNIVERSITY	Manufacturing Engineering	11/08/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		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 Department1

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	61	61	62
UG1.C	61	62	129
UG1.D	62	129	132
UG1: Mechanical Engineering	184	252	323
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Manufacturing Engineering	36	36	36

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
DS=Total no. of students in all UG and PG programs in the Department	220	288	359
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= 220	S2= 288	S3= 359
DF=Total no. of faculty members in the Department	13	17	19
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= 13	F2= 17	F3= 19
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 18.33	SFR2= 18.00	SFR3= 19.94
Average SFR for 3 years	SFR= 18.76		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 \times [(10X + 4Y)/RF]$ 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)	2	11	10.00	16.00
2024-25(CAYm1)	1	16	14.00	13.21
2023-24(CAYm2)	1	18	17.00	12.06

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	1.00	2.00	0.00	7.00	12.00
2024-25	2.00	1.00	3.00	0.00	10.00	16.00
2023-24	2.00	1.00	4.00	0.00	12.00	18.00
Average	RF1=1.67	AF1=1.00	RF2=3.00	AF2=0.00	RF2=9.67	AF2=15.33

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.Melvin.S	Human Resource Person,	Global TVS Limited, Viralimalai	Mechatronics and IOT	26.00
2	Mr.Melvin.S	Human Resource Person,	Global TVS Limited, Viralimalai	Process Planning and Cost Estimation	26.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.Tamilselvan R	Assistant Quality Engineer,	Delphi TVS Limited Chennai	Embedded Systems	26.00
2	Mr.Tamilselvan R	Assistant Quality Engineer,	Delphi TVS Limited Chennai	Industrial Management	26.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Kannan S	Engineer	MM Forgings Limited, Viralimalai	Metallurgy and Metal Science	26.00
2	Mr. Kannan S	Engineer	MM Forgings Limited, Viralimalai	Engineering Thermodynamics	26.00

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	1
2	No. of peer reviewed conference papers published	0	0	0
3	No. of books/book chapters published	0	0	0

C7. Sponsored Research Project

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

(CAYm1)**(CAYm2)****(CAYm3)****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
P.SETHURAMAN	C.POOMALAI	DEPARTMENT OF MECHANICAL ENGINEERING	HELICAL GEARS	SHANTHI GEARS LIMITED, Coimbatore	5 MONTHS	0.90
						Amount received (Rs.):0.90

(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
V.SENTHILPANDIAN	R PERIYASAMY	DEPARTMENT OF MECHANICAL ENGINEERING	CHECK VALVE	Jothi Micro Cast Private Limited, Manapparai, Trichy	6 MONTHS	1.50
						Amount received (Rs.):1.50

(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
P RAJKUMAR	C.POOMALAI	DEPARTMENT OF MECHANICAL ENGINEERING	GATE VALVE	Harihar Alloys Pvt Ltd, Viralimalai, Pudukkottai	5 MONTHS	0.80
						Amount received (Rs.):0.80

Total amount (Lacs) received for the past 3 years: 3.20

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
K.SENTHIL KUMAR	COMPUTATIONAL MATERIAL DESIGN	5 Months	0.20	0.20	PROTOTYPE
R.PRABHURAJ	IOT ENABLED SUPPLY CHAIN MANAGEMENT	3 Months	0.15	0.15	PROTOTYPE
P.SETHURAMAN	Investigation On Mechanical Properties Of AA3003-Si3N4 Composites	3 Months	0.13	0.13	CONFERENCE PROCEEDINGS
			Amount received (Rs.): 0.48		

(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
P.RAJKUMAR	Faulty Product Detection And Separation System	4 Months	0.15	0.15	CONFERENCE PROCEEDINGS
M.MANICKAVASAGAM	Analysis Of Mechanical Behavior Of MoO3 Reinforced LM25 Alloy	4 Months	0.11	0.11	CONFERENCE PROCEEDINGS
V.SENTHILPANDIAN	Footstep Power Generation Using Piezo-Electric Sensor	5 Months	0.19	0.19	PROTOTYPE
			Amount received (Rs.): 0.45		

(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
M.MANICKAVASAGAM	Pneumatic Metal Sheet Bending Machine	5 Months	0.10	0.10	PROTOTYPE
R PERIYASAMY	Analysis Of Mechnaical Behavior Of MoO3 Reinforced LM25 Alloy	3 Months	0.14	0.14	CONFERENCE PROCEEDINGS
P.SETHURAMAN	Design Of Pneumatic Metal Sheet Bending Machine	4 Months	0.12	0.12	PROTOTYPE
			Amount received (Rs.): 0.36		

Total amount (Lacs) received for the past 3 years : 1.29

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	Strength of Materials Lab	30	Universal Testing Machine 2.	03 Hours	Mr.K.Vellaikkannu	Lab Technician	DME
2	Metrology Lab	30	Toolmakers' Microscope	03 Hours	Mr.M.Mohan	Lab Technician	ITI Fitter
3	CAMD Lab	30	Desktop computers	03 Hours	Mr.Velankanni	Lab Technician	B.E
4	Fluid mechanics and hydraulic machinery Lab	30	Pelton Wheel Turbine	03 Hours	Mr.D.Parthiban	Lab Technician	DME
5	Advanced Manufacturing And Technology Laboratory	30	Hydraulic Press (10Ton)	03 Hours	Mr.R.Raja	Lab Technician	I.T.I Fitter
6	ManufacturingTechnology Lab	30	Gear Hobbing Machine	03 Hours	Mr.R.Raja	Lab Technician	I.T.I Fitter
7	Engineering Workshop Lab	30	Arc Welding Machine	03 Hours	Mr.R.Raja	Lab Technician	I.T.I Fitter
8	Heat Transfer Lab	30	Critical Heat Flux Apparatus	03 Hours	Mr.M.Mohan	Lab Technician	I.T.I Fitter
9	Thermal Engineering Lab	30	Air Compressor Test Rig	03 Hours	Mr.M.Mohan	Lab Technician	ITI Fitter

10	CAD/CAM Lab	30	CNC Lathe Machine	03 Hours	Mr.Velankanni	Lab Technician	B.E
11	Dynamics of Machines Lab	30	Motorized Gyro scope setup	03 Hours	Mr.D.Parthiban	Lab Technician	DME

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Strength of Materials Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. Do not touch the specimen immediately after testing if it has sharp fractured edges. 4. First aid box and Fire extinguisher are kept in the laboratory 5. Electric wires are properly insulated. 6. Do not operate equipment with wet hands. 7. Fire hose reel and Fire Sand Bucket are available in the laboratory. 8. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement.
2	Metrology Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Do not attempt to repair laboratory instruments without authorization.. 5. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 6. General rules of conduct are displayed.
3	CAMD Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 6. General rules of conduct are displayed. 7. MCB boards are fixed to avoid over loading and short- circuiting in the lab. 8. Proper Earthing is done for Electrical safety. 9. The laboratory coat, safety shoes shall be worn during practical sessions. 10. Computers, monitors, keyboards, mice, printers, and networking devices shall be handled carefully to prevent damage. 11. Bags and personal belongings should be kept in the designated area to avoid obstruction. 12. First aid box and Fire extinguisher are kept in the laboratory
4	Fluid mechanics and hydraulic machinery Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Leather gloves are provided for safety. 6. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 7. General rules of conduct are displayed. 8. MCB boards are fixed to avoid over loading and short- circuiting in the lab. 9. Do not exceed the specified operating pressure or flow rate of the equipment. 10. Verify that the water level in tanks and reservoirs is adequate before operating pumps.
5	Advanced Manufacturing Technology Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Leather gloves are provided for safety. 6. Firehose and Fire Sand Bucket are available in the laboratory. 7. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 8. General rules of conduct are displayed. 9. MCB boards are fixed to avoid over loading and short- circuiting in the lab. 10. Inspect all machine tools, guards, cutting tools, chucks, fixtures, and work-holding devices before operation. 11. Ensure that the workpiece and cutting tools are securely clamped before starting the machine. 12. Proper Earthing is done for Electrical safety. 13. Wear approved welding helmets, face shields, leather gloves, aprons, and safety shoes during welding operations. 14. Remove metal chips using a brush or chip hook; never use bare hands.
6	Manufacturing Technology Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Leather gloves are provided for safety. 6. Firehose and Fire Sand Bucket are available in the laboratory. 7. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 8. General rules of conduct are displayed. 9. MCB boards are fixed to avoid over loading and short- circuiting in the lab. 10. Inspect all machine tools, guards, cutting tools, chucks, fixtures, and work-holding devices before operation. 11. Ensure that the workpiece and cutting tools are securely clamped before starting the machine. 12. Proper Earthing is done for Electrical safety. 13. Wear approved welding helmets, face shields, leather gloves, aprons, and safety shoes during welding operations. 14. Remove metal chips using a brush or chip hook; never use bare hands.

7	Engineering workshop Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Leather gloves are provided for safety. 6. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 7. Rubber mats are available in the lab. 8. General rules of conduct are displayed. 9. MCB boards are fixed to avoid overloading and short- circuiting in the lab. 10. Proper Earthing is done for Electrical safety.
8	Heat transfer Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Fire hose reel is available in the laboratory. 6. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 7. General rules of conduct are displayed. 8. MCB boards are fixed to avoid overloading and short- circuiting in the lab. 9. Proper Earthing is done for Electrical safety. 10. Use heat-resistant gloves when handling hot specimens or components.
9	Thermal Engineering Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Fire hose reel is available in the laboratory. 6. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 7. General rules of conduct are displayed. 8. MCB boards are fixed to avoid overloading and short- circuiting in the lab. 9. Proper Earthing is done for Electrical safety. 10. Use heat-resistant gloves when handling hot specimens or components.
10	CAD/CAM Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 6. General rules of conduct are displayed. 7. MCB boards are fixed to avoid over loading and short- circuiting in the lab. 8. Proper Earthing is done for Electrical safety. 9. The laboratory coat, safety shoes shall be worn during practical sessions. 10. Computers, monitors, keyboards, mice, printers, and networking devices shall be handled carefully to prevent damage. 11. Bags and personal belongings should be kept in the designated area to avoid obstruction. 12. First aid box and Fire extinguisher are kept in the laboratory
11	Dynamics Lab	1. The laboratory coat, safety shoes shall be worn during practical sessions. 2. Bags and personal belongings should be kept in the designated area to avoid obstruction. 3. First aid box and Fire extinguisher are kept in the laboratory 4. Electric wires are properly insulated. 5. Loose clothing and jewellery are prohibited; longhair must be secured in buns to prevent entanglement. 6. General rules of conduct are displayed. 7. MCB boards are fixed to avoid over loading and short- circuiting in the lab. 8. Proper Earthing is done for Electrical safety.

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= $\frac{\text{No. of faculty members (NS1*0.8) + (NS2*0.2)}}{\text{No. of required faculty (RF4)}}$; Percentage= $\frac{((\text{NS1*0.8}) + (\text{NS2*0.2}))}{\text{RF}}$
2023-24(CAYm2)	420	21	18	6	74
2024-25(CAYm1)	420	21	22	5	89
2025-26(CAY)	420	21	14	2	55

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 //	0	00	0	0	0	0	0	0
Library //	200000	155685.00	105000.00	92400.00	295000	257586	160000.00	130250.00
Laboratory equipment //	150000.00	113210.00	150000	83290.00	28000.00	26900.00	180000.00	132475.00
Teaching and non-teaching staff salary //	9350000.00	9119300.00	9000000.00	8513776.00	7550000.00	7279942.00	7920000.00	6951918.00
Outreach Programs //	52000.00	45750.00	25500.00	22745.00	25000.00	23300.00	20000.00	19740.00
R&D //	590000	568750	500000.00	467855.00	380000.00	349685.00	400000.00	394520.00
Training, Placement and Industry linkage //	280000.00	266955.00	250000.00	212600.00	200000.00	162500.00	170000	162455.00
SDGs //	540000.00	523600.00	500000.00	474555.00	250000.00	212400.00	295000	289456
Entrepreneurship //	25000.00	24560.00	19500.00	18795.00	22000.00	18560.00	18500.00	17350.00
Others, specify //	29050000.00	26776481.00	20000000.00	17025711.00	15000000.00	12936333.00	14000000.00	13015845.00
Total	40237000.00	37594291.00	30550000.00	26911727.00	23750000.00	21267206.00	23163500.00	21114009.00

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 //	35000.00	25490.00	37000.00	32450.00	0	0	31000.00	22798.00
Software //	36750.00	26450.00	25000.00	22350.00	20000.00	16480.00	20000.00	16770.00
SDGs //	62700.00	54470.00	67050.00	63450.00	68000.00	65700.00	55000.00	48950.00
Support for faculty development //	29650.00	19550.00	24500.00	20700.00	18000.00	16550.00	19800.00	17440.00
R & D //	60770.00	54690.00	76500.00	72890.00	72000.00	70150.00	70000.00	67580.00
Industrial Training, Industry expert, Internship //	39500.00	38000.00	42000.00	39500.00	39000.00	37150.00	45000.00	35450.00

Miscellaneous Expenses* 	1850000.00	1785600.00	1500000.00	1426000.00	1355000.00	1278654.00	1250000.00	1178620.00
Total	2114370.00	2004250.00	1772050.00	1677340.00	1572000.00	1484684.00	1490800.00	1387608.00