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: 11178	**Date of Submission**: 16-11-2025

PART A- Profile of the Institute

A1.Name of the Institute: Kathir College of Engineering	
Year of Establishment : 2008	Location of the Institute: 11068028645299037 770839140571454
A2. Institute Address:"Wisdom Tree", Avinashi Road, Neelambur, Coimbatore.	
City:Coimbotore	State:Tamil Nadu
Pin Code:641062	Website:www.kathir.ac.in
Email:principal@kathir.ac.in	Phone No(with STD Code):0422-2203778
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Anna University Chennai	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **7**
- No. of PG programs: **6**

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	PG	Applied Electronics	2013	2024	Electronics and Communication Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
3	Engineering & Technology	UG	Computer & Communication Engineering	2023	--	Computer and Communication Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2008	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2024	--	Computer Science and Engineering
7	Engineering & Technology	UG	Electrical and Electronics Engineering	2008	--	Electrical and Electronics Engineering

8	Engineering & Technology	UG	Electronics & Communication Engineering	2008	--	Electronics and Communication Engineering
9	Engineering & Technology	PG	Manufacturing Engineering	2013	--	Mechanical Engineering
10	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
11	Engineering & Technology	PG	Power Electronics & Drives	2013	--	Electrical and Electronics Engineering
12	Engineering & Technology	PG	VLSI Design & Embedded Systems	2025	--	Electronics and Communication Engineering
13	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
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Electrical and Electronics Engineering	No	Electrical and Electronics 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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	2009 / --	60	Yes	2023	30	2023	F.NO.Southern/1-44639335976/2025/EOA	Applying first time	--	--	0	4

Sanctioned Intake for Last Five Years for the Manufacturing Engineering	
Academic Year	**Sanctioned Intake**
2025-26	30
2024-25	30
2023-24	30
2022-23	60
2021-22	60
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.B.Suresh Babu
B. Nature of appointment:	Regular
C. Qualification:	M.Tech and Ph.D.

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	30	60	60	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	30	28	30	11	36	2	11
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	3	3	6	6	12	2
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	3	4	0	6	97	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	30	34	37	17	48	111	13

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)	30	30	0	100.00
2024-25 (CAYm1)	30	28	3	103.33
2023-24 (CAYm2)	30	30	4	113.33

Average [(ER1 + ER2 + ER3) / 3] = 105.55≡ 100

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).	66.00	132.00	122.00
B=No. of students who graduated from the program in the stipulated course duration	22.00	73.00	11.00

Success Rate (SR)= (B/A) * 100	33.33	55.30	9.02

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 32.55

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.51	7.50	7.40
Y=Total no. of successful students	25.00	27.00	9.00
Z=Total no. of students appeared in the examination	25.00	27.00	9.00
API [X*(Y/Z)]	7.51	7.50	7.40

Average API[(AP1+AP2+AP3)/3] : 7.47

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)	7.46	7.80	7.30
Y=Total no. of successful students	31.00	13.00	29.00
Z=Total no. of students appeared in the examination	30.00	15.00	29.00
API [X * (Y/Z)]	7.71	6.76	7.30

Average API [(AP1 + AP2 + AP3)/3] : 7.26

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)	7.67	7.40	7.00
Y=Total no. of successful students	13.00	22.00	80.00
Z=Total no. of students appeared in the examination	13.00	29.00	100.00
API [X*(Y/Z)]:	7.67	5.61	5.60

Average API [(AP1 + AP2 + AP3)/3] : 6.29

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	66.00	132.00	122.00
X=No. of students placed	22.00	73.00	11.00
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):	33.33	55.30	9.02

Average Placement Index = (P_1 + P_2 + P_3)/3: 32.55 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	Dr.B.Suresh Babu	XXXXXXX61F	M.Tech and Ph.D.	Anna University	Composite Materials	10/08/2022	3.3	Associate Professor	Professor	12/08/2024	Regular	Yes		Yes
2	Dr.T.Sivakumar	XXXXXXX30G	M.Tech and Ph.D.	Anna University	Materials Engineering	02/01/2023	2.10	Associate Professor	Associate Professor		Regular	Yes		No
3	Dr.V.P.Venkataramanamurthy	XXXXXXX14R	M.Tech and Ph.D.	Anna University	Thermal Engineering	25/06/2024	1.4	Professor	Professor		Regular	Yes		No
4	Dr.A.Lalitha Saravanan	XXXXXXX64L	M.E. and Ph.D.	Anna University	Thermal Engineering	30/01/2021	3.3	Associate Professor	Associate Professor		Regular	No	25/05/2024	No
5	Dr.K. Thirumalai kannan	XXXXXXX71R	M.E. and Ph.D.	Anna University	Composite Materials	30/01/2021	3.3	Associate Professor	Associate Professor		Regular	No	30/05/2024	No
6	Dr.M.Satthiyaraju	XXXXXXX42J	M.E. and Ph.D.	National Institute of Technology	Smart Materials	30/01/2021	3.6	Assistant Professor	Assistant Professor		Regular	No	01/08/2024	No
7	Mr.B.Vignesh	XXXXXXX94B	M.E.	Anna University	Energy Engineering	28/03/2022	2.2	Assistant Professor	Assistant Professor		Regular	No	28/05/2024	No
8	Mr.D.Sathish Kumar	XXXXXXX64B	M.E.	Anna University	CAD/CAM	18/01/2021	3.4	Assistant Professor	Assistant Professor		Regular	No	25/05/2024	No
9	Mr.R.C.Gowrishankar	XXXXXXX11R	M.E.	Anna University	Engineering Design	29/08/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr.S.Navaneethan	XXXXXXX99C	M.E.	Anna University	Manufacturing Engineering	22/01/2021	4.9	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr.M.Arunprakash	XXXXXXX33G	M.E.	Anna University	Computer Aided Design	18/06/2014	11.4	Assistant Professor	Assistant Professor		Regular	Yes		No

12	Mr.K.G.Sivachandran	XXXXXXX98L	M.E.	Anna University	Industrial Safety Engineering	07/01/2016	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr.A.Gogulakrishnan	XXXXXXX13A	M.E.	Anna University	Engineering Design	14/06/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr.A.Vijayakumar	XXXXXXX06G	M.E.	Anna University	Computer Integrated Manufacturing	14/06/2013	12.2	Assistant Professor	Assistant Professor		Regular	No	30/08/2025	No
15	Mr.M.Mareeswaran	XXXXXXX12N	M.E.	Anna University	CAD/CAM	20/11/2020	4.11	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr. P. Saravanakumar	XXXXXXX94A	M.E.	Anna University	Industrial Metallurgy	03/08/2023	2.3	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mrs. G.A.Umadevi	XXXXXXX26C	M.E.	Anna University	Computer Aided Design	25/06/2024	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr.A.Rameshkumar	XXXXXXX82D	M.E.	Anna University	Aeronautical engineering	01/07/2016	7.10	Assistant Professor	Assistant Professor		Regular	No	25/05/2024	No
19	Mr.S.Anandakumar	XXXXXXX67K	M.E.	Anna University	Engineering Design	01/08/2025	0.3	Assistant Professor	Assistant Professor		Regular	Yes		No

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	33	33	66
UG1.C	33	66	66
UG1.D	66	66	132
UG1: Mechanical Engineering	**132**	**165**	**264**

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG1.A	6	6	6
PG1.B	6	6	18
PG1: Manufacturing Engineering	**12**	**12**	**24**
DS=Total no. of students in all UG and PG programs in the Department	144	177	288
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=** 144	**S2=** 177	**S3=** 288
DF=Total no. of faculty members in the Department	12	12	16
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=** 12	**F2=** 12	**F3=** 16
FF=The faculty members in F who have a 100% teaching load in the first-year courses	4	2	0
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 18.00**	**SFR2= 17.70**	**SFR3= 18.00**
Average SFR for 3 years	**SFR= 17.90**		

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 x [(10X + 4Y) / RF)]
2025-26(CAY)	3	9	7.00	23.57
2024-25(CAYm1)	3	9	8.00	20.62
2023-24(CAYm2)	5	11	14.00	16.79

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = 1/9 * 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 * 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 * 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	2.00	1.00	1.00	4.00	9.00
2024-25	1.00	2.00	1.00	1.00	5.00	9.00

2023-24	1.00	0.00	3.00	4.00	9.00	12.00
Average	RF1=1.00	AF1=1.33	RF2=1.67	AF2=2.00	RF2=6.00	AF2=10.00

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	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	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	2	10	4
2	No. of peer reviewed conference papers published	1	2	0
3	No. of books/book chapters published	2	1	1

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.B.Suresh Babu	Mrs.G.A.Umadevi	Kathir College of Engineering	Fatigue Life Prediction and Design Improvement of Rotating Shafts	Beston Pumps Pvt Ltd	1 year	0.96
Mr.M.Arunprakash	Mr.M.Mareeswaran	Kathir College of Engineering	Complex Geometries in Product Design	Vinayack Machine Tools	1 year	0.98
Mr.S.Navaneethan		Kathir College of Engineering	3D Modelling &Simulation of 2 T Hydraulic Puller and Press	Barani Hydraulics, Coimbatore	6 Months	0.27
						Amount received (Rs.):2.21

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.M.Satthiyaraju	Mrs.M.Kavitha	Kathir College of Engineering	Advanced Safeplay: AI Powered Sports Injury prevention system aiming zero accidents	Tamilnadu State Council for Science and Technology (TNSCST)	3 Months	0.08
						Amount received (Rs.):0.08

(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
Mr.M.Arunprakash	Mr.A.Gogulakrishnan	Kathir College of Engineering	Sheet Metal Design & Manufacturing Documentation	Cadopt Technologies Pvt Ltd	1 year	1.22
Dr.M.Satthiyaraju	nil	Kathir College of Engineering	Design and fabrication of Low-cost Automatic waste collector robots in waterbodies	Tamilnadu State Council for Science and Technology (TNSCST)	3 Months	0.08
						Amount received (Rs.):1.30

Total Amount (Lacs) Received for the Past 3 Years: 3.59

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.T.Sivakumar	Mr.K.G.Sivachandran	Kathir College of Engineering	Fatigue and lifecycle assessment of steel components	Sublime Structures, Coimbatore	6 Months	0.85
Dr.V.P.Venkataramanamurthy	Mr.A.Gogulakrishnan	Kathir College of Engineering	Cost estimation and scheduling support	Sublime Structures, Coimbatore	6 Months	0.93
Mr.A.Vijayakumar	Mr.R.C.Gowrishankar	Kathir College of Engineering	Cycle Time Reduction through Design Improvements	CadOpt Technologies Pvt Ltd, Coimbatore	1 year	1.47
						Amount received (Rs.):3.25

(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.K.G.Sivachandran		Kathir college of Engineering	Product Redesign for Weight Reduction and Cost Optimization	CadOpt Technologies Pvt Ltd, Coimbatore	3 Months	0.39
Mr.A.Gogulakrishnan		Kathir college of Engineering	Cycle Time Reduction through Design Improvements	CadOpt Technologies Pvt Ltd, Coimbatore	2 Months	0.25
Mr.M.Mareeswaran		Kathir college of Engineering	GD&T Implementation and Drawing Validation Services	Arrow Industries	3 Months	0.34
Dr.A.Lalitha Saravanan		Kathir college of Engineering	Implementation of Production part approval process for Burkrets Flywheel	CPC Pvt Ltd, Coimbatore	4 Months	0.42
						Amount received (Rs.):1.40

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.M.Satthiyaraju	Mr.D.Sathishkumar	Kathir college of Engineering	Virtual Prototyping & Simulation-Based Design	CadOpt Technologies Pvt Ltd, Coimbatore	1 year	1.31
Dr.B.Suresh Babu	Mr.S.Navaneethan	Kathir college of Engineering	Productivity Enhancement in Foundry operations using Lean Techniques	Indoshell Cast Pvt Ltd	10 Months	0.99
						Amount received (Rs.):2.30

Total amount (Lacs) received for the past 3 years: 6.95

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.B.Sureshbabu,Mr.S.Navaneethan,Mr.R.C.Gowrishankar,Dr.T.Sivakumar,Mr.Arunprakash.M	SIC AND GRAPHITE PARTICULATE REINFORCED AL ALLOY HYBRID METAL MATRIX COMPOSITES	4 Months	0.40	0.38	Published and Granted as Patent
Dr.Satthiyaraju.M	Enhancement of piezoelectric responses of electrospun PVDF nanofibers	6 Months	0.42	0.40	Published as Journal
			Amount received (Rs.): 0.82		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.B.Suresh Babu et al	Power Generation Through Shock Absorber	6 Months	0.45	0.41	Conversion of suspension vibration energy into electrical power using a modified shock absorber, published and granted as Patent
Dr.B.Suresh Babu	Tilting Vice Machine	6 MOnths	0.42	0.42	Published and Granted as patent
Dr.B.Sureshbabu et al	SOLAR TRACKING SYSTEM	6 Months	0.49	0.46	Published and Granted as Patent
Dr Satthiyaraju M	Effect of post-processing treatment on 3D-printed polylactic acid parts	5 Months	0.47	0.47	Published as Journal
Dr Satthiyaraju M	Investigation of vibration, flexural, tribological and flame retardant properties	6 Months	0.43	0.41	Published as Journal
			Amount received (Rs.): 2.26		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.M.Satthiyaraju	A Review of Sustainable Bio-Based Insulation Materials for Energy-Efficient Buildings	3 Months	0.40	0.30	Published as a Paper in Macro molecular materials and Engineering
Dr.M.Satthiyaraju	Comparative study of mechanical strength and piezoelectric coefficient of post-processed PVF	6 Months	0.47	0.46	Published as Journal
Dr.M.Satthiyaraju	Effect of Kevlar Fabric on Mechanical Properties of Polymer Composites	5 MOnths	0.26	0.24	Published as Journal
			Amount received (Rs.): 1.13		

Total amount (Lacs) received for the past 3 years : 4.21

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	Engineering Workshop Lab	1	Carpentry Vice, Wooden Mallet, Metal Jack Plane, Marking Gauges, Wood Rasp File, Hand Saw, Tenon	30Hour/Week	Mr.S. Arumugam	Lab Technician	ITI
2	Strength of Materials Lab	3	Universal Testing Machine, Torsional Testing Machine, Deflection Testing Machine, Spring Testing Machine,	30 Hour/Week	Mr.P.Ganesh Kumar	Lab Technician	ITI
3	Thermal Engineering Lab	2	4 Stroke Petrol Multi cylinder Engine, Air Compressor Test Rig, 4 - Stroke Single Cylinder Diesel Engine Test	30 Hour/Week	Mr.Thirumalaisamy	Lab Technician	ITI
4	Fluid Mechanics Lab	3	Calibration of Venturimeter Apparatus, Calibration of Orificemeter, Determination of Loss of Head due to	30 Hour/Week	Mr.P.Ganesh Kumar	Lab Technician	ITI
5	Manufactur ing Technology Lab	3	Lathes With Accessories, Bench Grinding Machine, Lathe Machine, Radial Drilling Machine,Milling	30 Hour/Week	Mr.S. Arumugam	Lab Technician	ITI
6	Metrology and Measurements Lab	2	Vernier Caliper, OutsideMicrometer, Inside Micrometer, Dial Bore Guage, Dial Indicator, Gear Tooth Vernier	30 Hour/Week	Mr.P.Ganesh Kumar	Lab Technician	ITI
7	Heat Transfer Lab	2	Composite Slab Apparatus, Lagged Pipe Apparatus, Concentric Sphere Apparatus, Thermal Conductivity of	30 Hour/Week	Mr.Thirumalaisamy	Lab Technician	ITI
8	CAD/CAM Lab	1	CNC Lathe, CNC Milling, Solid works, Edge Cam , Ansys	30 Hour/Week	Mr.S. Arumugam	Lab Technician	ITI
9	Kinematics and Dynamics lab	2	Universal vibration system spring mass system. Static and Dynamic balancing System	30 Hour/Week	Mr.P.Ganesh Kumar	Lab Technician	ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Engineering practices laboratory	1.Insulated tools and wiring. 2.MCB protection. 3.Rubber mats near panels. 4.SOP displayed. 5.Faculty supervision.

2	Strength of Materials Lab	1Proper alignment and firm gripping of specimens. 2.Specimen properly clamped at both ends.
3	Thermal Engineering Lab	1.Proper ventilation for exhaust gases. 2.Safety valves and pressure gauges calibrated.
4	Fluid Mechanics Lab	1Tight pipe joints to prevent leakage. 2.Pressure relief valve checked.
5	Manufacturing Technology Lab	1.Proper clamping of work piece and tool. 2.No loose clothing hair tied properly. 3.Chips removed using brush. 4.Spindle stopped before changing tools.
6	Metrology and Measurements Lab	1.Proper storage after measurement. 2.Careful handling of optical components.
7	Heat Transfer Lab	1.Insulated hot surfaces to prevent burns. 2.Power supply switched off before adjustments. 3.Operator maintains safe distance from heater.
8	CAD/CAM Lab	1.Regular system updates and antivirus protection. 2.Data backed up periodically. 3.Emergency stop button accessible. 4.Machine enclosure doors interlocked.

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))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2023-24(CAYm2)	300	15	12	4	69

2024-25(CAYm1)	360	18	13	5	63
2025-26(CAY)	480	24	21	7	76

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	0	0	10000000	10675000	0	0	0	0
Library	150000	142575	150000	121763	100000	59653	150000	195800
Laboratory equipment	4500000	4609244	7000000	6710283	4500000	5057196	500000	912285
Teaching and non-teaching staff salary	52000000	38880000	41000000	41282950	45000000	44497107	45000000	45080681
Outreach Programs	1000000	721860	1200000	1393122	1000000	834251	1000000	1167221
R&D	100000	45860	100000	62192	100000	69102	100000	80822
Training, Placement and Industry linkage	1800000	1244567	1500000	1623173	300000	303812	900000	1100750
SDGs	1200000	934520	1000000	1228064	800000	712763	600000	691263
Entrepreneurship	200000	143550	300000	576393	100000	75953	200000	275187
Others, specify	50000000	42253324	24000000	25080086	20000000	20444209	20000000	19785001
Total	**110950000**	**88975500**	**86250000**	**88753026**	**71900000**	**72054046**	**68450000**	**69289010**

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	600000	507050	1400000	1312250	700000	616330	220000	185575
Software	0	0	0	0	0	0	0	0
SDGs	45000	33500	50000	34560	100000	88978	100000	85602
Support for faculty development	50000	30416	70000	55600	50000	38750	200000	174520

R & D	25000	12960	25000	17493	25000	18790	50000	39710
Industrial Training, Industry expert, Internship	100000	75000	100000	83000	50000	23500	250000	204250
Student Welfare	20000	13200	20000	12500	20000	14500	20000	16500
Total	**840000**	**672126**	**1665000**	**1515403**	**945000**	**800848**	**840000**	**706157**