

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 : 12072	Date of Submission : 30-07-2026

PART A- Profile of the Institute

A1.Name of the Institute : SIR ISSAC NEWTON COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2010	Location of the Institute: NAGAPATTINAM
A2. Institute Address :VELANKANNI ROAD, ANDHANAPEETAI POST, PAPPAKOIL, NAGAPATTINAM 611 102. TAMIL NADU.	
City:Nagapattinam	State:Tamil Nadu
Pin Code:611102	Website:www.sincet.ac.in
Email:principalsincet@gmail.com	Phone No(with STD Code):04365-299763
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 : Autonomous CAY(2025-26)	
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	Agriculture Engineering	2020	2025	Agriculture Engineering
2	Engineering & Technology	PG	Applied Electronics	2014	--	Electronics and Communication Engineering
3	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Artificial Intelligence and Data Science
4	Engineering & Technology	PG	CAD/CAM	2013	--	Mechanical Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2013	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering	2010	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2025	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)

8	Engineering & Technology	UG	Electrical and Electronics Engineering	2026	--	Electrical and Electronics Engineering
9	Engineering & Technology	UG	Electronics and Communications Engineering	2010	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Information Technology	2023	--	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	2010	--	Mechanical Engineering
12	Engineering & Technology	PG	Power Systems Engineering	2014	--	Electrical and Electronics Engineering
13	Management	PG	Master of Business Administration	2026	--	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
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Electronics and Communication Engineering	No	Electronics and Communications 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	2010 / --	60	No	NA	60	2010	AICTE: SRO-2010-1-13464971	Applying first time	--	--	0	4

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.SILAMBARASAN
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	48	48	21	56	52	29	30
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	17	3	10	11	36	13
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.	48	65	24	66	63	65	43

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	48	0	80.00
2024-25 (CAYm1)	60	48	0	80.00
2023-24 (CAYm2)	60	21	0	35.00

Average [(ER1 + ER2 + ER3) / 3] = 65.00≡ 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).	66.00	66.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	27.00	29.00	28.00
Success Rate (SR)= (B/A) * 100	40.91	43.94	42.42

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 42.42

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
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)	8.07	8.10	8.00

Y=Total no. of successful students	48.00	21.00	41.00
Z=Total no. of students appeared in the examination	48.00	21.00	56.00
API $[X*(Y/Z)]$	8.07	8.10	5.86

Average API $[(AP1+AP2+AP3)/3]$: 7.34

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)	7.90	7.94	7.76
Y=Total no. of successful students	20.00	49.00	54.00
Z=Total no. of students appeared in the examination	24.00	51.00	61.00
API $[X * (Y/Z)]$	6.58	7.63	6.87

Average API $[(AP1 + AP2 + AP3)/3]$: 7.03

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)	7.98	8.08	7.40
Y=Total no. of successful students	48.00	54.00	50.00
Z=Total no. of students appeared in the examination	49.00	54.00	57.00
API $[X*(Y/Z)]$:	7.82	8.08	6.49

Average API $[(AP1 + AP2 + AP3)/3]$: 7.46

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	66.00	66.00
X=No. of students placed	50.00	46.00	36.00
Y=No. of students admitted to higher studies	2.00	4.00	3.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	78.79	75.76	59.09

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 71.21 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.A.KUMARAVADIVEL	XXXXXXX51N	Ph.D	ANNA UNIVERSITY	INDUSTRIAL ENGINEERING	11/04/2022	4.3	Professor	Professor	11/04/2022	Regular	Yes		No
2	Dr.B.SILAMBARASAN	XXXXXXX33A	Ph.D	ANNA UNIVERSITY	ENGINEERING DESIGN	31/08/2024	1.10	Associate Professor	Associate Professor	31/08/2024	Regular	Yes		Yes
3	Dr. K.ELANGOVAN	XXXXXXX01M	Ph.D	ANNAMALAI UNIVERSITY	MANUFACTURING ENGINEERING	11/07/2022	4	Professor	Professor	11/07/2022	Regular	Yes		No
4	Dr. T.ARUN KUMAR	XXXXXXX63H	Ph.D	ANNA UNIVERSITY	SHEET METAL FORMING	06/08/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Dr. S.VIGNESH	XXXXXXX97C	Ph.D	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION	ADDITIVE MANUFACTURING	14/12/2020	5.7	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr. R.GNANASEKARAN	XXXXXXX43A	M.E.	ANNA UNIVERSITY	MANUFACTURING ENGINEERING	05/08/2013	12.11	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr.J.SILAMBARASAN	XXXXXXX26H	M.E.	ANNA UNIVERSITY	CAD/CAM	10/06/2015	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. G.VIJAYAKUMAR	XXXXXXX63R	M.E.	ANNA UNIVERSITY	ENGINEERING DESIGN	29/08/2022	3.10	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. R.RAMESH	XXXXXXX55N	M.E.	ANNA UNIVERSITY	INDUSTRIAL ENGINEERING	20/02/2023	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr. S.MURALIDHARAN	XXXXXXX03H	M.E.	ANNA UNIVERSITY	ENGINEERING DESIGN	18/05/2023	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. M.GANESAN	XXXXXXX20F	M.E.	SATHYABAMA UNIVERSITY	COMPUTER AIDED DESIGN	11/12/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr. A.MUTHUSAMY	XXXXXXX58J	M.E.	ANNA UNIVERSITY	CAD/CAM	01/08/2024	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr. N.VAIRAVEL	XXXXXXX25K	M.E.	ANNA UNIVERSITY	CAD/CAM	04/07/2023	3	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr. R.JOEL	XXXXXXX91G	M.E.	ANNA UNIVERSITY	MANUFACTURING ENGINEERING	20/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr. J.MANIKANDAN	XXXXXXX57R	M.E.	ANNA UNIVERSITY	CAD/CAM	20/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr. A.NAVEEN	XXXXXXX16M	M.E.	ANNA UNIVERSITY	CAD/CAM	01/08/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No

17	Mr. S.ARUMUGAM	XXXXXXX57E	M.E.	PONDICHERRY UNIVERSITY	CAD/CAM	02/02/2026	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr. K.PRABHAKARAN	XXXXXXX37N	M.E.	ANNA UNIVERSITY	ENGINEERING DESIGN	18/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mr. P.MALAISELVARAJA	XXXXXXX70C	M.E.	ANNA UNIVERSITY	MANUFACTURING ENGINEERING	10/07/2013	12.2	Assistant Professor	Assistant Professor		Regular	No	06/10/2025	No
20	Mr. K.SANTHOSH KUMAR	XXXXXXX17P	M.E.	ANNA UNIVERSITY	MANUFACTURING ENGINEERING	20/05/2016	9.2	Assistant Professor	Assistant Professor		Regular	No	19/07/2025	No
21	Mr. S.VENKATESAN	XXXXXXX82R	M.E.	ANNA UNIVERSITY	THERMAL ENGINEERING	24/06/2019	6.5	Assistant Professor	Assistant Professor		Regular	No	28/11/2025	No
22	Mr. R.VASANTHAKUMAR	XXXXXXX40F	M.E.	ANNA UNIVERSITY	CAD/CAM	13/12/2017	7.4	Assistant Professor	Assistant Professor		Regular	No	05/05/2025	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	66	63	66
UG1.C	63	66	66
UG1.D	66	66	66
UG1: Mechanical Engineering	195	195	198
PG1.A	24	24	24
PG1.B	24	24	24
PG1: CAD/CAM	48	48	48
DS=Total no. of students in all UG and PG programs in the Department	243	243	246

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
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= 243	S2= 243	S3= 246
DF=Total no. of faculty members in the Department	17	17	13
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= 17	F2= 17	F3= 13
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= 14.29	SFR2= 14.29	SFR3= 18.92
Average SFR for 3 years	SFR= 15.83		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	4	13	12.00	19.17
2024-25(CAYm1)	3	13	12.00	17.08
2023-24(CAYm2)	2	11	12.00	13.33

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:}$.
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$.
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	2.00	3.00	1.00	8.00	14.00
2024-25	1.00	2.00	3.00	1.00	8.00	14.00
2023-24	1.00	2.00	3.00	0.00	8.00	11.00
Average	RF1=1.00	AF1=2.00	RF2=3.00	AF2=0.67	RF2=8.00	AF2=13.00

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	Dr. S. MUTHU	PROFESSOR	PSG College of Technology	Advanced Technologies in Manufacturing	21.00
2	Mr. YUVARAJ	TECHNICAL TRAINER	KAVIN INC	Six axis Robot for WAAM	35.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. P.VIVEK	DIRECTOR	Precisure testing AND calibration opc private limited	Principle of Management	28.00
2	Mr. B.VASUDEVAN	PRINCIPAL ENGINEER	TECHNIP ENERGIES	Production Technology	35.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. S. MUTHU	PROFESSOR	PSG College of Technology	3D Printing in Industry	35.00
2	Mr. P.VIVEK	DIRECTOR	Precisure testing AND calibration opc private limited	Management tools in Manufacturing Technology	28.00

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	12	11	10
2	No. of peer reviewed conference papers published	13	36	24
3	No. of books/book chapters published	11	7	5

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.Silambarasan	-	Mechanical Engineering	Design, Fabrication, and Performance Evaluation of an Industrial Vibratory Screening Machine for Material Classification	Sana Sri Engineering	6 Months	1.00
						Amount received (Rs.):1.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr.P.Malaiselvaraja	-	Mechanical Engineering	Industrial Belt Conveyor System for Bulk Material Handling	Sana Sri Engineering	8 Months	0.50
						Amount received (Rs.):0.50

(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
Dr.K.Elangovan	Dr.A.Kumaravadivel	Mechanical Engineering	Quality Process for Infrastructure and Metro Rail Projects by Filtration Technology and Fuel Energy Saving in Thermal Fluid Boiler and Pressure	Sri Varahi Silicate Industries Private Limited	8 Months	5.75
						Amount received (Rs.):5.75

Total Amount (Lacs) Received for the Past 3 Years: 7.25

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.B.Silambarasan	-	Mechanical Engineering	Comprehensive Mechanical Characterisation of Metallic Components for Industrial Applications	Research Scholar	2 Weeks	0.55
Dr.T.Arun Kumar	-	Mechanical Engineering	Tribological and Mechanical Behaviour Assessment of Engineering Alloys	Research Scholar	1 Week	0.50
Mr.R.Gnanasekaran	-	Mechanical Engineering	Material Qualification and Mechanical Integrity Assessment for Industrial Applications	PG Student	1 Week	0.60
Mr.S.Muralidharan	-	Mechanical Engineering	Fabrication of Stainless Steel Components Using Robotic Wire Arc Additive Manufacturing	Research Scholar	1 Week	0.50
Dr.S.Vignesh	-	Mechanical Engineering	Mechanical and Microstructural Characterization of SS304 Stainless Steel Fabricated by Wire Arc Additive Manufacturing	Research Scholar	1 Week	0.61
Mr.M.Ganesan	-	Mechanical Engineering	Investigation of Mechanical Properties, Microstructural Characteristics, and Corrosion Behavior of WAAM-Deposited SS316L Stainless Steel	Research Scholar	1 Week	0.44
						Amount received (Rs.):3.20

(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.S.Vignesh	-	Mechanical Engineering	Prototype Development, Fabrication, and Quality Assessment of Engineering Components Using Advanced Manufacturing	Research Scholar	1 Week	0.87
Mr.J.Silambarasan	-	Mechanical Engineering	Powder Processing, Heat Treatment, and Material Characterization for Advanced Manufacturing Applications	PG Student	1 Week	0.78
Mr.K.Santhosh Kumar	-	Mechanical Engineering	Design, Fabrication, Heat Treatment, and Mechanical Performance Evaluation of Nickel based Components Using Robotic WAAM	Research Scholar	2 Weeks	0.95
Mr.S.Muralidharan	-	Mechanical Engineering	Comparative Investigation of Mechanical Properties and Microstructural Characteristics of Cryogenically Treated Al-Mg Alloy Fabricated Double-Pulse WAAM	Research Scholar	1 Week	0.65
						Amount received (Rs.):3.25

(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: 6.45

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
Mr.S.Muralidharan	Development and Mechanical Characterization of Sustainable Polymer Composites	10 Months	0.80	0.80	Pursuing Ph.D.
Mr.R.Gnanasekaran	Professional Course on Non-Destructive Testing (NDT) and Industrial Inspection	6 Months	0.50	0.50	Weekly classes equipped students with practical skills in Non-Destructive Testing (NDT) techniques.
Mr.S.Vignesh	NPTEL Exam	3 Months	0.02	0.02	NPTEL Pass in 2 different courses
			Amount received (Rs.): 1.32		

(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.S.Vignesh	Mechanical. Cryogenic and Corrosion Characteristics of SS347 stainless steel used in WAAM	11 Months	1.75	1.75	Publication & Pursuing Ph.D.
Mr.S.Venkatesan	Professional Course on Revit MEP and BIM for Building Services	6 Months	0.50	0.50	Weekly classes enhanced students' competency in BIM-based MEP design using industry-standard software
Mr.J.Silambarasan	Professional Course on Solidworks	6 Months	0.40	0.40	Value Added Courses enhanced students competency
			Amount received (Rs.): 2.65		

(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.R.Vasanthakumar	Paper Publication	10 Months	1.50	1.50	Publication & Ph.D Awarded
Mr.K.Santhoshkumar	Professional Course on Revit MEP	9 Months	0.60	0.60	Weekly classes enhanced students' competency in BIM-based MEP design using industry-standard software
			Amount received (Rs.): 2.10		

Total amount (Lacs) received for the past 3 years : 6.07

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	Basic Workshop	35	1. Foundry unit 2. Sheet Metal unit 3. Carpentry Unit 4. Arc Welding Unit 5. Drilling Machine	36	Mr.S.M.Ayyappan	Lab Technician	D.M.E
2	Manufacturing Technology Laboratory	35	1. Centre Lathe 2. Vertical Milling Machine 3. Radial Drilling Machine 4. Surface Grinding Machine 5. Cross Slide Machine 6. Grinder	30	Mr.T.Annadurai	Lab Instructor	I.T.I
3	Strength of Materials Laboratory	35	1. Universal Testing Machine 400 kN 2. Torsion Testing Machine 3. Izod Impact Testing Machine 4. Rockwell Hardness Tester 5. Brinell Hardness Tester	24	Mr.S.Venkatesh	Lab Technician	D.M.E

4	Metrology and Measurements Laboratory	35	1. Vernier Caliper 2. Micrometer 3. Vernier Height Gauge 4. Slip Gauges 5. Tool Maker's Microscope 6. Surface Plate 7. Coordinate Measuring Machine	24	Mr.S.M.Ayyappan	Lab Technician	D.M.E
5	Heat Transfer Laboratory	35	1. Air Compressor Test Rig 2. Refrigeration Test Rig 3. Air Conditioning Test Rig 4. Natural Convection Apparatus 5. Film Evaporation Apparatus	24	Mr.G.Karthikeyan	Lab Technician	B.E
6	Thermal Engineering Laboratory	35	1. Flash and Fire Point Apparatus 2. Model of Diesel Engine 3. Model of Petrol engine Motorized 4. Model of Diesel engine Motorized 5. Model of Diesel engine Motorized	24	Mr.P.Balaji	LAB Technician	D.M.E
7	Dynamics Laboratory	35	1. Gyroscope Apparatus, 2. Governor Apparatus (Watt/Porter). 3. Static Balancing Machine 4. Torsion Pendulum Test Setup 5. Torsion Pendulum Test Setup	24	Mr.S.Venkatesh	Lab Technician	D.M.E
8	Fluid Mechanics Laboratory	35	1. Centrifugal Pump 2. Reciprocating Pump 3. Pelton Wheel Turbine 4. Francis Turbine 5. Kaplan Turbine 6. Venturi Meter 7. Orifice & Mouth 8. Venturi Meter	24	Mr.S.M.Ayyappan	Lab Technician	D.M.E
9	CAD/ CAM Laboratory	50	1. High-End Computer Systems 2. CAD Software (AutoCAD/SOLID WORKS) 3. CAM Software 4. CNC Simulation Software	36	Mr.M.Krishnamoorthy	Lab Technician	B.E
10	Mechatronics and IoT Laboratory	30	1. PLC Trainer Kits 2. Microcontroller Kits (Arduino/Raspberry Pi) 3. Sensors & Actuators Kits 4. Pneumatic Testbed Kit 5. Hydraulic Testbed Kit	20	Mr. G. Murugesh Rajulu	Lab Technician	D.ECE

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Basic Work shop	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Safety Gloves, Personal Protective Equipment (PPE) (Gloves, Masks) and Lab Coats, Emergency stop switches accessible
2	Manufacturing Technology Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Personal Protective Equipment (PPE) (Gloves, Masks), Ventilation Systems
3	Strength of Materials Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display
4	Metrology and Measurements Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Insulated tools for electrical experiments, Clean and dust-free environment
5	Heat Transfer Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display

6	Thermal Engineering Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Safety valves in boilers and compressors
7	Dynamics Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display
8	Fluid Mechanics Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Safety valves in boilers and compressors
9	CAD/ CAM Laboratory	First Aid Box, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Proper cable management, Clean and dust-free environment
10	Mechatronics and IoT Laboratory	First Aid Box, Clear Gangways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Insulated tools for electrical experiments, Proper cable management, Clean and dust-free environment
11	Robotics Laboratory	First Aid Box, Clear Gang Ways, Fire Extinguisher, Safety Instruction, Emergency Contact Display, Insulated tools for electrical experiments, Proper cable management, Clean and dust-free environment

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)	360	18	14	8	71
2024-25(CAYm1)	360	18	16	15	88
2025-26(CAY)	420	21	29	22	131

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	55550000	44328042	60000000	42720922	30000000	24077221	12000000	11326037
Library	140000	104707	70000	55649	150000	130500	350000	327000
Laboratory equipment	3550000	2758350	2500000	2287567	4000000	3581188	3000000	2804330
Teaching and non-teaching staff salary	45000000	34747763	25000000	21353830	25000000	19573474	35000000	31873243
Outreach Programs	2300000	1844298	2500000	2042353	2000000	1961240	350000	330280
R&D	700000	587000	1000000	816000	750000	621000	150000	150000
Training, Placement and Industry linkage	750000	609441	1500000	1290131	500000	453504	600000	575000
SDGs	1500000	1407841	3000000	2783185	1500000	1294400	10000	87296
Entrepreneurship	500000	345000	350000	300000	250000	218500	0	0
Others, specify	24000000	19704946	13500000	11000000	35000000	27464202	13000000	10366669
Total	133990000	106437388	109420000	84649637	99150000	79375229	64460000	57839855

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	500000	485470	500000	420912	850000	787861	600000	538431
Software	15000	12136	85000	60522	125000	85000	200000	90000
SDGs	300000	281568	600000	584469	300000	271824	25000	19205
Support for faculty development	130000	121888	150000	142165	200000	124568	150000	102452
R & D	150000	146750	250000	212160	200000	155250	50000	38500

Industrial Training, Industry expert, Internship 	400000	368860	300000	284565	350000	297485	300000	263265
Miscellaneous Expenses* 	300000	262290	300000	286978	300000	221564	300000	204012
Total	1795000	1678962	2185000	1991771	2325000	1943552	1625000	1255865