

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 : 12048	Date of Submission : 17-07-2026

PART A- Profile of the Institute

A1.Name of the Institute: C.ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : NIL	Location of the Institute: Melvisharam Ranipet Tamil Nadu 632509
A2. Institute Address: HAKEEM NAGAR,MELVISHARAM	
City:VILLORE	State:Tamil Nadu
Pin Code:632509	Website:www.cahcet.in
Email:CAHCET@REDIFFMAIL.COM	Phone No(with STD Code):04172-267387
A3. Name and Address of the Affiliating University (if any):	
Name of the University : NIL	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: 8
- No. of PG programs: 4

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	Computer Application	PG	Master in Computer Applications	2008	--	Computer Application
2	Engineering & Technology	PG	Applied Electronics	2006	2026	Electronics and Communication Engineering
3	Engineering & Technology	UG	Artificial Intelligence and Data Science	2022	--	Artificial Intelligence and Data Science
4	Engineering & Technology	UG	Civil Engineering	2008	--	Civil Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering
6	Engineering & Technology	PG	Computer Science and Engineering	2026	--	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	1998	--	Electrical and Electronics Engineering
9	Engineering & Technology	UG	Electronics and Communications Engineering	2001	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	1998	--	Mechanical Engineering
12	Management	PG	Master of Business Administration	2006	--	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
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Information Technology	Yes	Information Technology	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	1998 / --	60	Yes	2021	60	2021	F.No. Southern/1-9323182988/2021/EOA	Granted accreditation for 3 years for the period (specify period)	--	--	3	4

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
Sanctioned Intake for Last Five Years for the Mechanical Engineering														
Academic Year			Sanctioned Intake											
2025-26			60											
2024-25			60											
2023-24			60											
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. D. Kumar
B. Nature of appointment:	Regular
C. Qualification:	M.E. 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)	60	60	60	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	45	25	31	13	9	19	17
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	7	7	11	14	14	8
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.	45	32	38	24	23	33	25

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 $[(N1/N)*100]$
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2025-26 (CAY)	60	45	0	75.00
2024-25 (CAYm1)	60	25	0	41.67
2023-24 (CAYm2)	60	31	0	51.67

Average [(ER1 + ER2 + ER3) / 3] = 56.11≡ 8.00

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	132.00	128.00
B=No. of students who graduated from the program in the stipulated course duration	13.00	15.00	15.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 14.26

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)	6.06	6.48	6.21
Y=Total no. of successful students	25.00	29.00	12.00
Z=Total no. of students appeared in the examination	25.00	31.00	13.00
API [X*(Y/Z)]	6.06	6.06	5.73

Average API[(AP1+AP2+AP3)/3] : 5.95

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)	5.65	5.78	6.59
Y=Total no. of successful students	34.00	23.00	22.00
Z=Total no. of students appeared in the examination	36.00	23.00	23.00
API [X * (Y/Z)]	5.34	5.78	6.30

Average API [(AP1 + AP2 + AP3)/3] : 5.81

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)	6.69	7.01	7.31
Y=Total no. of successful students	22.00	20.00	32.00
Z=Total no. of students appeared in the examination	24.00	21.00	32.00

API [X*(Y/Z)]:	6.13	6.68	7.31
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Average API [(AP1 + AP2 + AP3)/3] : 6.71

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	128.00
X=No. of students placed	20.00	25.00	20.00
Y=No. of students admitted to higher studies	1.00	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):	31.82	18.94	15.62

Average Placement Index = (P_1 + P_2 + P_3)/3: 22.13 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. D. Kumar	XXXXXXX34H	M.E. and Ph.D.	Anna University Chennai	Composite Materials	09/08/2018	7.11	Professor	Professor	09/08/2018	Regular	Yes		Yes
2	Dr. Syed Amjad Ahmed	XXXXXXX12G	MS and PhD	Vellore Institute of Technology	Fluids/Thermal	20/07/2015	10.11	Assistant Professor	Associate Professor	21/04/2025	Regular	Yes		No
3	Dr. T. Sankar	XXXXXXX29H	M.Tech and Ph.D.	Bharath Institute of Higher Education and Research	Composite Materials	23/08/2007	18.10	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mr. N. Thirugnanasambanthan	XXXXXXX53K	M.E.	Anna University Chennai	Manufacturing Engineering	08/07/2009	17	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. C. Kumaran	XXXXXXX85N	M.E.	Anna University Chennai	Engineering Design	13/06/2011	15.1	Assistant Professor	Assistant Professor		Regular	Yes		No

6	Mr. R. Uma Mageshwaran	XXXXXXX07H	M.E.	Anna University	CAD/CAM	12/07/2013	13	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Dr. R. Senthil	XXXXXXX35L	M.E. and Ph.D.	Bharath Institute of Higher Education and Research	Composite Materials	01/07/2013	13	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. R. Nirmal Kumar	XXXXXXX08N	M.E.	Anna University	Internal Combustion Engineering	04/06/2015	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. V. M. Abdul Hakim Javid	XXXXXXX79L	MS and PhD	Vellore Institute of Technology	Tribology	06/07/2020	6	Assistant Professor	Associate Professor	11/08/2025	Regular	Yes		No
10	Mr. R. Manikandan	XXXXXXX73R	M.E.	Anna University Chennai	Engineering Design	28/07/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. I. Rajkumar	XXXXXXX20B	M.E.	Annamalai University	Manufacturing Engineering	21/01/2016	9.4	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
12	Dr. K.S. Ashraff Ali	XXXXXXX82E	M.E. and Ph.D.	Anna University	Composite Materials	10/06/2019	5.11	Associate Professor	Professor	01/07/2023	Regular	No	31/05/2025	No
13	Mr. Z. A. Amjath	XXXXXXX34K	M.E.	Anna University	CAD/CAM	12/08/2013	11.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
14	Mr. Livankumar P	XXXXXXX16P	M.E.	Anna University	I.C Engineering	28/07/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr. Thanga Raj P	XXXXXXX24K	M.E.	Anna University	CAD/CAM	28/07/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr. Shabeer A	XXXXXXX42M	M.E.	Anna University of Technology Tirunelveli	Aeronautical Engineering	02/07/2019	4.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
17	Mr. Karunanidhi R	XXXXXXX69M	M.Tech	Vellore Institute of Technology	CAD/CAM	05/08/2020	3.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
18	Mr. Manosurendir	XXXXXXX21C	M.E.	Anna University	Manufacturing Engineering	01/10/2020	3.7	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	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 Department0
 Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	132
UG1: Mechanical Engineering	198	198	264
DS=Total no. of students in all UG and PG programs in the Department	198	198	264
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= 198	S2= 198	S3= 264
DF=Total no. of faculty members in the Department	12	12	15
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= 15
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 19.80	SFR2= 19.80	SFR3= 20.31
Average SFR for 3 years	SFR= 19.97		

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)	5	7	9.00	21.67
2024-25(CAYm1)	4	8	9.00	20.00
2023-24(CAYm2)	4	11	13.00	16.15

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	1.00	2.00	2.00	7.00	9.00
2024-25	1.00	2.00	2.00	0.00	7.00	10.00
2023-24	1.00	2.00	3.00	0.00	9.00	13.00
Average	RF1=1.00	AF1=1.67	RF2=2.33	AF2=0.67	RF2=7.67	AF2=10.67

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.S. Mohammed Nayeem	Maintenance Engineer	KH Exports India	ME3493- Manufacturing Technology	30.00
2	Mr. M. Umashankar	Quality Manager	SAME DEUTZ FAHR	ME3791 Mechatronics and IOT	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.S. Mohammed Nayeem	Maintenance Engineer	KH Exports India	ME3451: Thermal Engineering	30.00
2	Mr. M. Umashankar	Quality Manager	SAME DEUTZ FAHR	ME3592 Metrology and Measurements	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.S. Mohammed Nayeem	Maintenance Engineer	KH Exports India	Mr.S. Mohammed Nayeem	30.00
2	Mr. M. Umashankar	Quality Manager	SAME DEUTZ FAHR	ME3791: Mechatronics and IOT	30.00

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	11	1	4

2	No. of peer reviewed conference papers published	4	0	0
3	No. of books/book chapters published	3	0	0

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. R. Senthil	N. Thirugnanasambanthan	Mechanical Engineering	Investigation and Reduction of Leather Cutting Material Wastage in Leather Product Manufacturing	Tameem International, Melvisharam	1 Year	2.80
						Amount received (Rs.):2.80

(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. K.S. Ashraff Ali		Mechanical Engineering	Investigation of Stitching Defects and Process Parameters in Leather Product Manufacturing	Thameem Leatherwares, Melvisharam	1 Year	3.20
						Amount received (Rs.):3.20

(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. I. Rajkumar		Department of Mechanical Engineering	Investigation and Optimization of Manufacturing Process Parameters for Improving Leather Product Quality	Farah Enterprises, Melvisharam	1 Year	3.00
						Amount received (Rs.):3.00

Total Amount (Lacs) Received for the Past 3 Years: 9.00

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	Cimechel Electric pvt. Ltd	1 month	9000.00
T. Sankar		Mechanical Engineering	Cube & Steel Testing	PS Construction	1 month	10500.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	Cimechel Electric pvt. Ltd	1 month	12000.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	Elite Engineers	1 month	8250.00
T. Sankar		Mechanical Engineering	Cube & Brick Testing	J Kasi. PWD contractor	1 month	9750.00
T. Sankar		Mechanical Engineering	Steel & Brick Testing	PS Construction	1 month	11250.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	Elite Engineers	1 month	9000.00
T. Sankar		Mechanical Engineering	Brick Testing	RMD Fly Ash Bricks and Flour Bricks	1 month	8750.00
T. Sankar		Mechanical Engineering	Cube & Steel Testing	Cimechel Electric pvt. Ltd	1 month	10500.00
T. Sankar		Mechanical Engineering	Cube Testing	Elite Engineers	1 month	3000.00
T. Sankar		Mechanical Engineering	Steel Testing	Elite Engineers	10 Days	8000.00
T. Sankar		Mechanical Engineering	Cube Testing	J Kasi. PWD contractor	1 month	5000.00
T. Sankar		Mechanical Engineering	Cube Testing	Elite Engineers	1 month	7250.00
T. Sankar		Mechanical Engineering	Cube Testing	Cimechel Electric pvt. Ltd	1 month	8500.00
T. Sankar		Mechanical Engineering	Cube Testing	Step Rise Construction	1 month	5250.00
T. Sankar		Mechanical Engineering	Cube Testing	PS Construction	1 month	4500.00
						Amount received (Rs.):130500.00

(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
R. Senthil		Mechanical Engineering	Cube Test	PS Construction	1 month	6000.00
R. Senthil		Mechanical Engineering	Cube & Steel Testing	Elite Engineers	1 month	7500.00
R. Senthil		Mechanical Engineering	Cube, Steel & Brick Testing	Sivan Construction	1 month	9000.00
R. Senthil		Mechanical Engineering	Cube, Steel & Brick Testing	Cimechel Electric pvt. Ltd	1 month	8250.00
R. Senthil		Mechanical Engineering	Cube & Brick Testing	Elite Engineers	1 month	9750.00
R. Senthil		Mechanical Engineering	Steel & Brick Testing	J Kasi. PWD contractor	1 month	10500.00
R. Senthil		Mechanical Engineering	Cube, Steel & Brick Testing	PS Construction	1 month	11250.00
R. Senthil		Mechanical Engineering	Brick and Cube Test	Step Rise Construction	1 month	12000.00
R. Senthil		Mechanical Engineering	Cube Testing	RMD Fly Ash Bricks and Flour Bricks	1 month	6750.00
R. Senthil		Mechanical Engineering	Cube, Steel & Brick Testing	PS Construction	1 month	12750.00
R. Senthil		Mechanical Engineering	Brick Testing	RMD Fly Ash Bricks and Flour Bricks	1 month	9000.00
R. Senthil		Mechanical Engineering	Steel & Brick Testing	Elite Engineers	1 month	7500.00
R. Senthil		Mechanical Engineering	Cube, Steel & Brick Testing	PS Construction	1 month	10500.00
R. Senthil		Mechanical Engineering	Steel Testing	Cimechel Electric pvt. Ltd	10 Days	1500.00
						Amount received (Rs.):122250.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
T. Sankar		Mechanical Engineering	Cube Testing	Sivan Construction	1 month	6000.00
T. Sankar		Mechanical Engineering	Cube & Steel Testing	Madras Materials and Construction Pvt. Ltd	1 month	7500.00
T. Sankar		Mechanical Engineering	Brick Testing	RMD Fly Ash Bricks and Flour Bricks	1 month	9000.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	Sivan Construction	1 month	11250.00
T. Sankar		Mechanical Engineering	Cube Testing	Step Rise Construction	1 month	6750.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	PS construction	1 month	10500.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	J Kasi. PWD contractor	1 month	9750.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	PS construction	1 month	12000.00
T. Sankar		Mechanical Engineering	Brick Test	RMD Fly Ash Bricks and Flour Bricks	1 month	8250.00
T. Sankar		Mechanical Engineering	Cube, Steel & Brick Testing	J Kasi. PWD contractor	1 month	12750.00
						Amount received (Rs.):93750.00

Total amount (Lacs) received for the past 3 years: 346500.00

Note*:

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

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

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.
(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Z. A. Amjath	Bagasse Ash Reinforced AA7075 Metal Matrix Composite	One year	1.00	1.00	Scopus publications
Dr. R. Senthil	AlN Reinforced AA2017 Metal Matrix Composite	One year	0.95	0.95	Scopus publications
Dr. D. Kumar	Bovine Hoof Powder Reinforced Polyurethane Composite	One year	0.90	0.90	Scopus publications
Dr. K. S. Ashraff Ali	Continuous Fibre Reinforced Wear-Resistant Composite	One year	0.80	0.80	Scopus publications
Dr. Abdul Hakim Javid	Nano-Additive Blended Lubricant Performance Study	One year	0.75	0.75	Scopus publications
Dr. R. Senthil	Wear Optimization of AlN Strengthened AA2024 Composite	One year	0.70	0.70	Scopus publications
Dr. T. Sankar	Process Parameters on AA8079-ZrB2 Composite Wear	One year	0.65	0.65	Scopus publications
Z. A. Amjath	ML Prediction of Tool Wear in AZ91D Milling	One year	0.60	0.60	Scopus publications
			Amount received (Rs.): 6.35		

(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. Syed Amjad Ahmed	Pressure Gradient in Horizontal Two-Phase Flow	One year	1.50	1.50	SCI/Scopus
			Amount received (Rs.): 1.50		

(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. K. S. Ashraff Ali	Emission Studies on Modified Biodiesel Fuels	One year	1.65	1.65	SCI/Scopus
I Rajkumar	Friction Stir Processing of LM25-SiCp Composite	One year	0.65	0.65	SCI/Scopus
			Amount received (Rs.): 2.30		

Total amount (Lacs) received for the past 3 years : 10.15

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	CAD/CAM laboratory //	30	Intel i5 (Second generation) 8gb RAM Windows 10 Solidworks 19 CAD software, Printer //	4 hours	Mr. A. Farook Basha	Lab Technician	D.M.E
2	Manufacturing Technology Laboratory //	30	Centre Lathes -12 Nos Horizontal Milling Machine Vertical Milling Machine Shaper - 2 Nos Welding Transformer with Cables and Holders Cables and //	4 hours	Mr. D. Sabaresh	Lab Technician	D.M.E
3	Strength Of Materials //	30	Universal Tensile Testing Machine Torsion Testing Machine Impact Testing Machine Brinell Hardness Testing Machine Rockwell Hardness Testing Machine //	4 hours	Mr. A. Farook Basha	Lab Technician	D.M.E
4	Fluid Mechanics and Machinery Laboratory //	30	Venturi Meter Setup Pipe Flow Analysis Setup Centrifugal Pump/ Submersible Pump Setup Reciprocating Pump Centrifugal Pump with Cables and Holders Cables and //	4 hours	Mr. D. Sabaresh	Lab Technician	D.M.E
5	Metrology & Dynamics Laboratory //	30	Micrometer Vernier Caliper Vernier Height Gauge Vernier Depth Gauge Slip Gauge Set Gear Tooth Vernier Sine Bar Electric Circuits Microscope Profile Projector Test //	4 hours	Mr. I. Batcha	Lab Technician	I.T.I
6	Thermal Engineering Laboratory //	30	I.C Engine - 2 Stroke and 4 Stroke Model Apparatus for Flash and Fire Point 4-stroke Diesel Engine with Mechanical Indicator 4-stroke Diesel Engine with //	4 hours	Mr. D. Murugan	Lab Technician	I.T.I
7	Mechatronics & IoT Laboratory //	30	Basic Pneumatic Trainer Kit with Manual and Electrical Controls/ PLC Control Each Basic Hydraulic Trainer Kit Hydraulic and Pneumatic Systems Simulation Software //	4 hours	Mr. I. Batcha	Lab Technician	I.T.I
8	Makerspace Laboratory //	30	Mixer grinder Grinder Ceiling fan Table fan Washing machine Air-conditioner Refrigerator Bicycle //	27 hours	Mr. D. Murugan	Lab Technician	I.T.I
9	Re-Engineering for Innovation Laboratory //	60	Table fan Mixer grinder Electric Iron box Electric kettle Desktop computers ESP32 microcontrollers Temperature Humidity sensor Ultrasonic distance sensor Acceleration sensor //	27 hours	Mr. I. Batcha	Lab Technician	I.T.I
10	Heat Transfer Laboratory //	30	Lagged Pipe Apparatus Natural Convection-Vertical Cylinder Apparatus Forced Convection Inside Tube Apparatus Convective Wall Apparatus Stefan Boltzmann //	4 hours	Mr. D. Murugan	Lab Technician	I.T.I

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	CAD/CAM laboratory //	1. AC's are provided in the lab to prevent overheating of Systems. 2. The lab floor to keep clean, dry, and free of dust. 3. Safety rules, including dos and don'ts, are displayed and are communicated to all students. 4. Only qualified, certified, and authorized personnel are allowed to connect or disconnect cables, devices and computers 5. Computers should be turned off properly before leaving the lab

2	Manufacturing Technology Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
3	Strength Of Materials Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
4	Fluid Mechanics and Machinery Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
5	Metrology & Dynamics Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
6	Thermal Engineering Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
7	Mechatronics & IoT Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
8	Makerspace Laboratory 	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.

9	Re-Engineering for Innovation Laboratory	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.
10	Heat Transfer Laboratory	1. Students are required to wear laboratory aprons and safety shoes while working in the workshop. 2. Essential safety equipment, including a first-aid box and fire extinguisher, is available in the laboratory. 3. All electrical wiring is properly insulated to prevent electrical hazards. 4. Leather safety gloves are provided to protect students during machining and handling operations. 5. Loose clothing and jewellery are strictly prohibited, and students with long hair are instructed to secure it properly to avoid entanglement with moving parts. 6. Rubber insulating mats are provided at appropriate locations within the laboratory. 7. General safety rules and codes of conduct are clearly displayed inside the laboratory. 8. MCB boards are installed to prevent electrical overloading and short-circuiting. 9. Proper earthing is ensured for all electrical installations to enhance electrical safety.

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= $\frac{\text{No. of faculty members ((NS1*0.8) + (NS2*0.2))}}{\text{(No. of required faculty (RF4))}}$; Percentage= $\frac{((NS1*0.8) + (NS2*0.2))}{RF}$
2023-24(CAYm2)	480	24	19	11	72
2024-25(CAYm1)	480	24	20	16	80
2025-26(CAY)	540	27	21	21	78

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	40000000	39117864	25000000	24912355	15000000	14254000	15000000	13538000
Library	550000	511486	450000	400586	450000	448849	400000	383682
Laboratory equipment	40000000	39203013	20000000	19383406	14000000	13255705	10000000	8600500
Teaching and non-teaching staff salary	65000000	63890802	60000000	58762939	60000000	57200000	60000000	57094328

Outreach Programs //	2500000	2435995	1800000	1675056	550000	534812	1000000	875000
R&D //	2500000	2609000	3000000	2885500	2500000	2294000	800000	1960000
Training, Placement and Industry linkage //	6000000	5500020	4500000	4250060	2500000	2400000	2800000	2654200
SDGs //	4000000	3850135	4000000	3868078	2000000	1864000	1500000	1250000
Entrepreneurship //	2500000	2488000	1500000	1250022	1000000	625000	800000	780580
Others, specify //	10000000	8666160	7000000	6463261	5000000	4214875	6000000	4521658
Total	173050000	168272475	127250000	123851263	103000000	97091241	98300000	91657948

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 //	2000000	1875103	1450000	1413458	700000	683006	600000	526918
Software //	100000	98690	210000	201515	100000	71895	75000	55465
SDGs //	250000	243847	250000	202580	125000	101098	90000	80613
Support for faculty development //	100000	94000	100000	92600	100000	87500	100000	87500
R & D //	200000	180000	700000	635000	150000	150000	250000	230000
Industrial Training, Industry expert, Internship //	850000	802182	250000	222585	200000	164068	250000	223288
Miscellaneous Expenses* //	600000	536325	550000	338495	300000	293791	600000	272239
Total	4100000	3830147	3510000	3106233	1675000	1551358	1965000	1476023