

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

PART-A: Profile of the Institute

Name of the Program Applied for: B.E – Aeronautical Engineering

A1: Name of the Institute: **KIT-KalaignarKarunanidhi Institute of Technology**

Year of Establishment: 2008

Location of the Institute: Kannampalayam, Coimbatore

A2: Institute Address: -

City: Coimbatore

State: Tamil Nadu

Pin Code: 641402

Website: www.kitcbe.com

E-mail: kitcbe@gmail.com

Phone No (with STD Code): 0422-2367890

A3: Name and Address of the Affiliating University (If any): -

Name of the University : Anna University City : Chennai

State :Tamil Nadu Pin Code: 600 025

A4: Type of the Institution: - (Tick the applicable choice)

Institute of National Importance

☐

Deemed University

☐

University

☐

Autonomous

☒

Non-Autonomous (Affiliated)

☐

Any other (Please specify) *

☐

***Provide Details:** _____

A5: Ownership Status: - (Tick the applicable choice)

Central Government

☐

State Government

☐

Government Aided

☐

Self-financing

☒

Any Other (Please specify) *

☐

***Provide Details:** _____

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

❖ No. of UG programs: 13

❖ No. of PG programs: 07

Table No. A6.1: List of all programs offered by the Institute.

S.N.	Level of program (UG/PG)	Name of the program	Year of Start	Year of close*	Name of the Department
1	UG	B.E -Aeronautical Engineering	2010	-	-
2	UG	B.Tech - Agricultural Engineering	2017	-	-

3	UG	B.E - Biomedical Engineering	2017	-	-
4	UG	B.Tech.- Biotechnology	2017	-	-
5	UG	B.E - Computer Science and Engineering (NBA Accredited)	2008	-	-
6	UG	B.E - Electronics and Communication Engineering (NBA Accredited)	2008	-	-
7	UG	B.E- Electrical and Electronics Engineering (NBA Accredited)	2008	-	-
8	UG	B.E- Mechanical Engineering (NBA Accredited)	2009	-	-
9	UG	B.Tech-Artificial Intelligence and Data Science	2021	-	-
10	UG	B.Tech- Computer Systems and Business Systems	2021	-	-
11	UG	B.E Computer Science and Engineering (AI & ML)	2023	-	-
12	UG	B.E - Electronics and Engineering(VLSI Design & Technology)	2024	-	-
13	PG	M.E - Computer Science and Engineering	2012	-	-
	PG	M.E - VLSI Design	2012	-	-
14	PG	M.E- Power System Engineering	2013	-	-
15	PG	M.E - Applied Electronics	2013	-	-
16	PG	M.E- Engineering Design	2014	-	-
17	PG	MBA - Master of Business Administration	2009	-	-
18	PG	MCA - Master of Computer Application	2011	-	-
19	PG	M.E - Computer Science and Engineering	2012	-	-

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

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

Cluster ID.	Name of the Department	Name of the Program
1.	Aeronautical Engineering	B.E. (Aeronautical Engineering)
2.	Mechanical Engineering	B.E. (Mechanical Engineering)
3.	Management Studies	M.B.A (Master of Business Administration)

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)
1.	Aeronautical Engineering	NA
2.	Mechanical Engineering	NA
3.	Management Studies	NA

PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

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

Table No. B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/decrease in intake, if any	Year of increase/decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
1.	B.E Aeronautical Engineering	2008	60	-	-	F.No.Southern/1-43663177719/2024/EOA Dated: 22/05/2024	Granted provisional accreditation for 2/3 years for the period(2022-23 To 2024-25)	1

* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)
- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

B2: Detail of Head of the Department for the program under consideration:

A. Name of the HoD : Dr. A. R. Saravanan

B. Nature of appointment: (Tick the applicable choice)

- ❖ Regular ☒
- ❖ Contract ☐
- ❖ Ad hoc ☐

C. Qualification: (Tick the applicable choice)

- ❖ Ph.D. ☒
- ❖ ME/M.Tech ☐
- ❖ Any other* ☐

***Please provide details:** _____

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

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024 - 2025	2023 - 2024	2022 - 2023	2021 - 2022	2020 - 2021	2019 - 2020	2018 - 2019
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 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	62	64	56	51	52	58	36
N2= Number of students admitted in 2 nd year in the same batch via lateral entry including leftover seats	0	2	2	8	12	3	0
N3= Separate division if any	0	0	0	0	0	0	0
N4= Total no. of students admitted in the 1 st 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.	62	66	58	59	64	61	36

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.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	2024- 2025	2023- 2024	2022- 2023
N= Sanctioned intake of the program in the 1 st year (as per AICTE/Competent authority)	60	60	60
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	62	64	56
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	0	0	0
Enrolment Ratio (ER)= (N1+N4)/N	1.033	1.066	0.933
Average ER= (ER_1+ ER_2+ ER_3)/3	1.010		

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	2024	2023	2022
A*= (No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd 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).	64	61	36
B=No. of students who graduated from the program in the stipulated course duration	44	49	33
Success Rate (SR)= (B/A)*100	68.75	80.32	91.66
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	80.247		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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	2023-2024	2022-2023	2021-2022
X= (Mean of 1 st 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 1 st year/10)	7.788	8.204	8.104
Y= Total no. of successful students	41	29	25
Z = Total no. of students appeared in the examination	64	53	48
API = X* (Y/Z)	4.989	4.488	4.22
Average API = (API_1 + API_2 + API_3)/3	4.565		

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	2023-2024	2022-2023	2021-2022
X= (Mean of 2 nd 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 2 rd year/10)	8.29	8.029	8.737
Y= Total no. of successful students	26	37	38
Z =Total no. of students appeared in the examination	48	56	53
API = X* (Y/Z)	4.490	5.304	6.264
Average API = (API_1 + API_2 + API_3)/3	5.352		

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	2023-2024	2022-2023	2021-2022
X= (Mean of 3 rd 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 3 rd year/10)	8.12	8.409	8.265
Y= Total no. of successful students	33	45	46
Z= Total no. of students appeared in the examination	54	53	59
API = X* (Y/Z)	4.96	7.139	6.443
Average API = (API_1 + API_2 + API_3)/3	6.180		

B9: Placement, Higher Studies, and Entrepreneurship**Table No.B9.1:** Placement, higher studies, and entrepreneurship details.

Item	2023-2024	2022-2023	2021-2022
FS*=Total no. of final year students	52	58	33
X= No. of students placed	39	46	23
Y= No. of students admitted to higher studies	1	3	2
Z= No. of students taking up entrepreneurship	1	0	0
X + Y + Z =	41	49	25
Placement Index (P) = (((X + Y + Z)/FS) * 100)	78.8	84.48	75.75
Average placement index = (P_1 + P_2 + P_3)/3	79.676		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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 (2024-2025)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr.S.Ravichandran	Ph.D	Anna University	Manufacturing Engineering	13.06.2012	12.9	Assistant Professor	Professor	10.12.2018	Regular	-	Y	-
2	Dr.A.R.Saravanan	Ph.D	Anna University	Propulsion	02.01.2017	8	Assistant Professor	Associate Professor	25.02.2019	Regular	-	Y	-
3	Dr. M.Bharathi	Ph.D	Anna University	Composite Materials	18.07.2022	2.8	Associate Professor	Associate Professor	18.07.2022	Regular	-	Y	-
4	Dr.B.Deeban	Ph.D	Anna University	Composite Materials	01.07.2016	9	Assistant Professor	Assistant Professor		Regular	-	Y	-
5	Dr.M.Vimal Raja	Ph.D	Anna University	Material Science	21.06.2013	11.9	Assistant Professor	Assistant Professor		Regular	-	Y	-
6	Mr G.A.Sivasankar	M.Tech	Hindustan University	Aircraft Maintenance Engineering	21.06.2013	11.9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
7	Ms. T. Vinitha	M.E.	Anna University	Aeronautical	26.06.2013	11.9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
8	Mr.D.Santhosh Kumar	M.Tech	Hindustan University	Aeronautical	01.07.2016	9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
9	Mr. S.L. Pradeep kumar	M.E	Anna University	CAD/CAM	01.07.2016	9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
10	Mr.M.Sasi kumar	M.E.	Anna University	Aeronautical	18.01.2021	4.2	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
11	Dr.K.Anusindhiya	Ph.D	Anna University	High Speed Aerodynamics	01.07.2024	0.9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
12	Mr.M.Vinoth	M.E.	Anna University	CAD/CAM	01.07.2024	0.9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
13	Mr.S.Sherbin sam	M.Tech.	Karunya University	Aerospace	01.07.2024	0.9	Assistant Professor	Assistant Professor	-	Regular	-	Y	-

ACY (2023-2024)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr.S.Ravichandran	Ph.D	Anna University	Manufacturing Engineering	13.06.2012	12	Assistant Professor	Professor	10.12.2018	Regular	-	Y	-
2	Dr.A.R.Saravanan	Ph.D	Anna University	Propulsion	02.01.2017	7	Assistant Professor	Associate Professor	25.02.2019	Regular	-	Y	-
3	Dr. M.Bharathi	Ph.D	Anna University	Composite Materials	18.07.2022	1.11	Associate Professor	Associate Professor	18.07.2022	Regular	-	Y	-
4	Mr.B.Deeban	M.E.	Anna University	Aeronautical	01.07.2016	8	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
5	Mr.M.Vimal Raja	M.E	Anna University	Mechanical	21.06.2013	11	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
6	Mr.G.A.Sivasankar	M.Tech	Hindustan University	Aircraft Maintenance Engineering	21.06.2013	11	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
7	Ms. T. Vinitha	M.E.	Anna University	Aeronautical	26.06.2013	11	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
8	Mr.D.Santhosh Kumar	M.Tech	Hindustan University	Aeronautical	01.07.2016	8	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
9	Mr.S.L.Pradeep kumar	M.E	Anna University	CAD/CAM	01.07.2016	8	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
10	Ms. K.Niranjana	M.E.	Anna University	Aeronautical	28.06.2019	5	Assistant Professor	Assistant Professor	-	Regular	-	N	29.06.24
11	Mr. M.Sasikumar	M.E.	Anna University	Aerodynamics	18.01.2021	3.3	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
12	Ms.W.Brightlin Abisha	M.E	Anna University	Avionics	28.06.2019	4.3	Assistant Professor	Assistant Professor	-	Regular	-	N	30.09.23

ACY (2022-2023)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr.S.Ravichandran	Ph.D	Anna University	Manufacturing Engineering	13.06.2012	11	Assistant Professor	Professor	10.12.2018	Regular	-	Y	-
2	Dr.A.R.Saravanan	M.E.	Anna University	Aeronautical	02.01.2017	6.5	Assistant Professor	Associate Professor	25.02.2019	Regular	-	Y	-
3	Dr. M.Bharathi	Ph.D	Anna University	Composite Materials	18.07.2022	0.11	Associate Professor	Associate Professor	18.07.2022	Regular	-	Y	-
4	Mr.B.Deeban	M.E.	Anna University	Aeronautical	01.07.2016	7	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
5	Mr.M.Vimal Raja	M.E	Anna University	Mechanical	21.06.2013	10	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
6	Mr.G.A.Sivasankar	M.Tech	Hindustan University	Aircraft Maintenance Engineering	21.06.2013	10	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
7	Ms. T. Vinitha	M.E.	Anna University	Aeronautical	26.06.2013	10	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
8	Mr.D.Santhosh Kumar	M.Tech	Hindustan University	Aeronautical	01.07.2016	7	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
9	Mr.S.L.Pradeep kumar	M.E	Anna University	CAD/CAM	01.07.2016	7	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
10	Ms.W.Brightlin Abisha	M.E	Anna University	Avionics	28.06.2019	4	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
11	Ms.K.Niranjana	M.E.	Anna University	Aeronautical	28.06.2019	4	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
12	Mr.M.Sasikumar	M.E.	Anna University	Aeronautical	18.01.2021	2.5	Assistant Professor	Assistant Professor	-	Regular	-	Y	-

ACY (2021-2022)

S.N.	Name of the Faculty	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)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr.S.Ravichandran	Ph.D	Anna University	Manufacturing Engineering	13.06.2012	11	Assistant Professor	Professor	10.12.2018	Regular	-	Y	-
2	Mr.A.R.Saravanan	M.E.	Anna University	Aeronautical	02.01.2017	6.5	Assistant Professor	Associate Professor	01.03.2019	Regular	-	Y	-
3	Mr.B.Deeban	M.E.	Anna University	Aeronautical	01.07.2016	7	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
4	Mr.M.Vimal Raja	M.E	Anna University	Mechanical	21.06.2013	10	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
5	Mr.G.A.Sivasankar	M.Tech	Hindustan University	Aircraft Maintenance Engineering	21.06.2013	10	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
6	Ms. T. Vinitha	M.E.	Anna University	Aeronautical	26.06.2013	10	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
7	Mr.D.Santhosh Kumar	M.Tech	Hindustan University	Aeronautical	01.07.2016	7	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
8	Mr.S.L.Pradeep kumar	M.E	Anna University	CAD/CAM	01.07.2016	7	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
9	Ms.W.Brightlin Abisha	M.E	Anna University	Avionics	28.06.2019	4	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
10	Ms.K.Niranjana	M.E.	Anna University	Aeronautical	28.06.2019	4	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
11	Mr.M.Sasikumar	M.E.	Anna University	Aeronautical	18.01.2021	2.5	Assistant Professor	Assistant Professor	-	Regular	-	Y	-

2: Student-Faculty Ratio (SFR)

- ❖ No. of UG(Engineering) programs in Department including allied departments/ clusters (UG_n):
 - UG₁=1st UG program
 - UG_n=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 (PG_m):
 - PG₁=1st PG program.
 - PG_m=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)).

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

Year	CAY (2024-2025)	CAYm1 (2023-2024)	CAYm2 (2022-2023)
UG 2 nd Year	60+2=62	60+2=62	60+6=66
UG 3 rd Year	60+2=62	60+6=66	60+6=66
UG 4 th Year	60+6=66	60+6=66	60+3=63
S=Total no. of students in the Department (DS) and allied departments (AS)	190	194	195
DF=Total no. of faculty members in the Department	13	11	12
AF= Total no. of faculty members in the allied Departments	-	-	-
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	13	11	12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	FF1	FF2	FF3
Student Faculty Ratio (SFR)=S/(F-FF)	14.615	17.636	16.25
Average SFR for 3 years	16.167		

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	FQI= $2.5 * [(10X + 4Y)/RF]$
2024-2025	6	7	9.5	23.157
2023-2024	3	8	9.7	15.979
2022-2023	2	10	9.75	15.384

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 Faculty(RF1)	Available Faculty(AF1)	Required Faculty(RF2)	Available Faculty(AF2)	Required Faculty(RF3)	Available Faculty(AF3)
2024-2025	1	1	2	2	6	10
2023-2024	1	1	2	2	6	8
2022-2023	1	1	2	1	6	10
Average Number s	RF1=3	AF1=3	RF2=6	AF2=5	RF3=18	AF3=28

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

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1 (2023-2024)				
1	Mr.J.Abdullah	FEA&CFD Consultant& Coimbatore CAD Solution Pvt Ltd	Computational Fluid Dynamics Aircraft Performance Finite Element Methods Low Speed Aerodynamics	
Total no. of hours:				54
CAYm2 (2022-2023)				
1	Mr.J.Abdullah	FEA&CFD Consultant& Coimbatore CAD Solution Pvt Ltd	Computational Fluid Dynamics Aircraft Performance Finite Element Methods Low Speed Aerodynamics	
Total no. of hours:				54
CAYm3 (2021-2022)				
1	Mr.J.Abdullah	FEA&CFD Consultant& Coimbatore CAD Solution Pvt Ltd	Computational Fluid Dynamics Aircraft Performance Finite Element Methods	

			Low Speed Aerodynamics	
Total no. of hours:				54

C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	2023-2024	2022-2023	2021-2022
1	No. of peer reviewed journal papers published	17	13	2
2	No. of peer reviewed conference papers published	-	-	-
3	No. of books/book chapters published	2	4	2

C7: Sponsored Research Project

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

S.N.	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)
CAYm3-2023-24							
1	Dr. Arivumani Ravanan	Dr. A. R. Saravanan	Mechanical Engineering	Commute Electric Vehicle	All India Council for Technical Education, (Scheme of Bharath Cycle Design Challenge) New Delhi.	May 2023 – Nov 2023 (7 Months)	1.40
2	Dr. Arivumani Ravanan	Dr. A.R. Saravanan	Mechanical Engineering	e-Cycle for disabled and autism people	Tamilnadu Skill Development Corporation (TNSDC), (Scheme of Naan Muthalvan), Government of Tamil Nadu	Feb 2023 - Sep 2024 (8 Months)	1.00
Amount received (Rs.)							2.40
CAYm2-2022-23							
1	Dr. Arivumani Ravanan	Dr. A. R. Saravanan	Mechanical Engineering	Modern cleanser device for sanitising edibles	State Ministry of MSME, Scheme of EDII-TN-IEDP, Government of Tamil Nadu	Sep 2022-May 2023	1.00
...							
Amount received (Rs.)							1.00
Total Amount (Lacs) Received for the Past 3 Years							3.40

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

S.N.	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)
CAYm1 (2023-2024)							
1	B. Deepan	-	Aeronautical Engineering	Optimization and design changes of aerodynamic and fatigue of wind planar effects on the fore facing rotors of agriculturally applied drones	JET AEROSPACE AVIATION RESEARCH CENTER	2 years	1,00,000
2	Mr. G.A Sivasankar	-	Aeronautical Engineering	Foldable arm analysis for drones	Avathar aviation	9 months	1,15,000
Amount received (Rs.)							2, 15,000
CAYm2 (2022-2023)							
1	A. R. Saravanan	-	Aeronautical Engineering	Design spec design and modification of two co-flow nozzles used in passenger carrying aircrafts	AEROARC DEFENCE AEROSPACE	1 Year	75,000
2	Dr. B. Deepan	-	Aeronautical Engineering	Twisted Rotor aerodynamic analysis of drones used for applications involving cross winds in lower altitudes	JET AEROSPACE AVIATION RESEARCH CENTER	1 Year	1,00,000
Amount received (Rs.)							1,75,000
CAYm3 (2021-2022)							
1	Dr. B. Deepan	-	Aeronautical Engineering	Analysis of a rotatory turbine along with impeller stress	ROOTS INDUSTRIES INDIA LIMITED	1 year	60,000
2	Mr. G. A. Sivashankar	-	Aeronautical Engineering	Engine key component fatigue analysis in contact with fuels	AVATHAR AVIATION AND AEROSACE PVT LIMITED	2 years	1,00,000
3	Mr. Pradeep Kumar	-	Aeronautical Engineering	Die casting and moulding design enhancement for variable areas and volumes.	SHRI SHAKTHI INDUSTRIES	9 months	85,000
Amount received (Rs.)							2,45,000
Total amount (Lacs) received for the past 3 years							6,35,000

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.

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1 (2023-2024)						
1	Dr.A.R.Saravanan	Jet Mixing Enhancements by using Passive Methods	6 Months	Rs. 10000	Rs.10000	Prototype Model
2	Mr.S.L.Pradeep Kumar	Enhancing Plasma Actuation through Foilage - Inspired Airfoil Design: An Experimental Investigation	6 Months	Rs. 10000	Rs. 10000	Publication
3	Mr.G.A.Siva Sankar	Investigation of sustainable Nano Added Solid Propellants using Mesquite Powder and plastic Waste Oil	6 Months	Rs. 10000	Rs. 10000	Fuel Developed
4	Mr.G.A.Siva Sankar	Hybrid Fuels and Its Properties	1 Year	Rs. 89000	Rs. 89000	Publications
5	Mr. Sasi kumar M	Characterization of Properties of composites	1 Year	Rs. 57500	Rs. 57500	Publications
6	Dr. M. Bharathi	Exploring the recycling potential of HDPE films	1 Year	Rs. 80000	Rs. 80000	Publications
7	Ms. T. Vinitha	Characterization of Composites	6 Months	Rs. 3000	Rs. 3000	Publications
8	Dr.A.R.Saravanan	High speed jet flows	6 Months	Rs. 3000	Rs. 3000	Publications
Amount received (Rs.) 2,62,500						
CAYm2 (2022-2023)						
1	Ms.K.Niranjana	The construction and experimental investigation of a propeller test rig to assess propeller performance.	6 Months	Rs. 10000	Rs. 10000	Working Model-propeller Test Rig
2	Ms.K.Niranjana	Life cycle assessment of 3D printed Quadcopter	6 Months	Rs. 10000	Rs. 10000	Model- 3D printed Quadcopter
3	Dr.M.Bharathi	Fabrication of Natural-Fiber-Filler-Glass-Fiber Hybrid Composites for an industrial helmet.	6 Months	Rs. 10000	Rs. 10000	Material Fabricated
4	Mr.G.A.Siva Sankar	Innovative AI Based Framework	1 Year	Rs. 42000	Rs. 42000	Patents
5	Mr.A.R.Saravanan	High Speed Jet flows	6 Months	Rs. 2000	Rs. 2000	Patent
6	Mr. B. Deeban	Composite Materials and Structures	6 Months	Rs. 9500	Rs. 9500	Patent
7	Ms.K.Niranjana	Fibre reinforced composite materials	6 Months	Rs. 7500	Rs. 7500	Publication
Amount received (Rs.) 91,000						
CAYm3 (2021-2022)						
1	Mr.S.L.Pradeep Kumar	Study of Shock wave Effects by Stimulating Seed Germination and	6 Months	Rs. 10000	Rs. 10000	Publication

		Altering Soil Behaviour				
2	Mr.D.Santhosh Kumar	Autonomous Underwater Vehicle	6 Months	Rs. 10000	Rs. 10000	Developed the vehicle
3	Mr.S.L.Pradeep Kumar	Fabrication of shock tunnel for emerging industrial application	6 Months	Rs. 10000	Rs. 10000	Shock tunnel Fabricated
4	Mr.G.A.Siva Sankar	A Paradigm Shift in Marketing creating Value for a more sustainable future	6 Months	Rs. 1000	Rs. 1000	Book Chapter
Amount received (Rs.)					31,000	
Total amount (Lacs) received for the past 3 years					3,84,000	

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.

S.N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Aerodynamics Laboratory	30	Subsonic Wind Tunnel, Multi tube Manometer, Pitot-Static Tubes, Cylinder Models, Smoke Generator, Water flow Channel.	6 Hours	Mr. P. Mani Sekar	Lab Technician	DME
2.	Computer Aided Simulation Laboratory	60	SolidWorks, Standalone PC with internet connection.	6 Hours	Mr. M. Arun	Lab Technician	DME
3.	Aircraft Structures Laboratory	30	100kN Universal Testing Machine, Beams with weight hangers and dial gauges, Column set up with dial gauges, Photo elasticity set up, Vibration set up with accessories, Wagner beam, Unsymmetrical bending set up, Set up for combined bending and torsion.	6 Hours	Mr. M. Arun	Lab Technician	DME
4.	Propulsion Laboratory	30	Jet Engine, Piston engine, Wind tunnel, Ramjet Facility, Conical flame holder model, Hemispherical flame holder model, Water flow channel, Compressor blade set, Convergent nozzle, Convergent Divergent Nozzle.	6 Hours	Mr. P. Mani Sekar	Lab Technician	DME
5.	Aero-engine and Air-frame Structural Laboratory	30	Aircraft Piston engines, NDT equipment, Valve timing disc, Shear Cutter Pedestal Type, Radius Bend Bars, Welding Machine.	6 Hours	Mr. S. Jaganathan	Lab Technician	B.E
6.	Aircraft System Laboratory	30	Serviceable aircraft with all above system, Hydraulic Jacks, Spirit Level, Levelling Boards, Plumb Bob, Cable Tensiometer, Trestle adjustable,	6 Hours	Mr. S. Jaganathan	Lab Technician	B.E
7.	Flight Integration	60	Microprocessor 8085 Kit, Adder/Subtractor Binary	6 Hours	Mr. P. Antony Andrews	Lab Technician	ITL

	System and Control Laboratory		bits kit, Encoder Kit, Decoder Kit, Multiplexer Kit, Demultiplexer Kit, Regulated Power Supply.				
8.	Strength of Materials Laboratory	30	Universal Tensile Testing machine, Torsion Testing, Impact Testing Machine, Brinell Hardness Testing Machine, Rockell Hardness Testing Machine, Spring Testing Machine, Metallurgical Microscopes, Muffle Furnace.	6 Hours	Mr. P. Antony Andrews	Lab Technician	ITL

D2: `Safety Measures in Laboratories

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

S.N.	Name of the Laboratory	Safety measures
1.	Aerodynamics Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
2.	Aircraft Component Drawing Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
3.	Aircraft Structures Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
4.	Propulsion Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
5.	Aero-engine and Air-frame Structural Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
6.	Aircraft System Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
7.	Flight Integration System and Control Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.
8.	Strength of Materials Laboratory	General rules, First aid kit, Fire extinguisher, Nearby hospital contact numbers are provided.

D3: Project Laboratory/Research Laboratory

Table No. D3.1: List of project laboratory/research laboratory /Centre of Excellence.

S.N.	Name of the Laboratory
1.	Aero-Project 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= $\frac{((NS1*0.8) + (NS2*0.2))}{RF4}$
2024-2025	990	50	36	16	64.65
2023-2024	720	36	35	14	85.56
2022-2023	660	33	36	16	96.97

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 Rs.	Actual expenses in 2024-2025 Rs.	Budgeted in 2023-2024 Rs.	Actual expenses in 2023-2024 Rs.	Budgeted in 2022-2023 Rs.	Actual expenses in 2022-2023 Rs.	Budgeted in 2021-2022 Rs.	Actual expenses in 2021-2022 Rs.
Infrastructure Built-Up	3,90,00,000	3,76,61,654	85,00,000	81,15,297	2,04,00,000	1,95,23,028.9	99,50,000	94,76,254
Library	44,00,000	42,56,271	43,00,000	41,46,600	23,00,000	21,77,360	14,00,000	13,14,743
Laboratory equipment	1,00,00,000	99,43,185	1,30,00,000	1,23,37,146	90,00,000	82,84,322	75,25,000	71,67,231
Teaching and non-teaching staff salary	17,50,00,000	16,49,25,114	16,00,00,000	15,45,75,446	14,00,00,000	13,05,24,000	12,35,05,000	11,76,24,721
Outreach Programs	21,00,000	20,12,136	20,00,000	19,47,650	20,60,000	19,65,000	11,00,000	10,43,000
R&D	60,46,000	58,82,143	59,50,000	57,51,115	57,55,000	55,71,156	15,25,000	13,70,392
Training, Placement and Industry linkage	1,00,00,000	1,02,45,313	69,00,000	65,71,674	11,60,000	10,97,698.5	5,50,000	5,22,968.45
SDGs	34,00,000	32,62,997.35	27,00,000	26,34,214	28,00,000	2,687,122	7,60,000	7,18,300
Entrepreneurship	5,10,000	4,89,772	2,20,000	2,11,500	7,40,000	7,04,000	1,25,000	1,18,500
Others*, pl. specify	29,28,45,000	27,67,97,797.7	27,63,74,000	26,87,16,952	14,37,48,400	13,77,27,413.6	16,29,92,000	15,50,90,927.5
Total amount	54,33,01,000	51,54,76,383	47,99,44,000	46,50,07,594	32,79,63,400	31,02,61,101	30,94,32,000	29,44,47,037

E3: Budget Allocation, Utilization, and Public Accounting at Program Specific Level**Table No. E3.1:** Budget and actual expenditure incurred at program level.

Items	Budget in 2024-25	Actual expenses in 2024-25	Budget in 2023-24	Actual expense s in 2023-24	Budget in 2022-23	Actual expense s in 2022-23	Budget in 2021-22	Actual expense s in 2021-22
Laboratory equipment	80,000	14985.28	85,000	14940.61	90,000	13632.73	10,00,000	9,07,317
Software	3,00,000	3,85,806.66	1,00,000	34,958	75,000	25,718	50,000	21,750
SDGs	1,00,000	83,906.5	2,00,000	1,83,789.6	2,50,000	2,06,446	50,000	450
Support for faculty development	50,000	25,326.05	50,000	28,470	50,000	8,424	25,000	1100
R & D	5,00,000	3,64,189	2,00,000	1,63,718.94	1,50,000	99,760.66	50,000	19,833
Industrial Training, Industry expert, Internship	10,00,000	10,23,316.09	6,00,000	4,45,133.37	4,00,000	3,51,326.25	3,00,000	2,52,084.10
Miscellaneous expenses *	75,70,000	66,68,339.95	70,65,000	62,57,208.71	61,85,000	56,55,231.3	50,25,000	45,27,253.25
Total amount	96,00,000	85,65,869.53	83,00,000	71,28,219.23	72,00,000	6360538.94	65,00,000	57,29,787.35