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 : Bachelor of Technology in Aeronautical Engineering

A1: Name of the Institute:- : Annasaheb Dange College of Engineering and Technology, Ashta

Year of Establishment : 1999 Location of the Institute : Ashta

A2: Institute Address:-

City : Sangli State : Maharashtra

Pin Code : 416301 Website : www.adcet.ac.in

E-mail : director@adcet.in Phone No (with STD Code) : +91-8600600700

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

Name of the university : Shivaji University City : Sangli

State : Maharashtra Pin Code : 416004

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 : 11
- No. of PG programs : 04

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	Bachelor of Technology in Mechanical Engineering	1999	-	Mechanical Engineering
2	UG	Bachelor of Technology in Computer Science & Engineering	2001	-	Computer Science & Engineering
3	UG	Bachelor of Technology in Electrical Engineering	2004	-	Electrical Engineering
4	UG	Bachelor of Technology in Civil Engineering	2010	-	Civil Engineering
5	UG	Bachelor of Technology in Aeronautical Engineering	2013	-	Aeronautical Engineering
6	UG	Bachelor of Technology in Food Technology	2019	-	Food Technology
7	UG	Bachelor of Technology in Artificial Intelligence and Data Science	2021	-	Artificial Intelligence and Data Science
8	UG	Bachelor of Technology in Computer Science and Engineering (Internet on Things, Cyber Security including BlockChain Technology)	2021	-	Computer Science and Engineering (Internet on Things, Cyber Security including BlockChain Technology)
9	UG	Bachelor of Technology in Robotics and Artificial Intelligence	2025	-	Robotics and Artificial Intelligence
10	UG	Bachelor of Computer Applications	2024	-	Computer Application
11	UG	Bachelor of Business Administration	2024	-	Business Administration
12	PG	M. Tech in Mechanical Engineering Design	2025	-	Mechanical Engineering
13	PG	M. Tech in Civil Engineering (Computer Aided Structural Engineering)	2025	-	Civil Engineering
14	PG	M. Tech in Computer Science And Engineering	2025	-	Computer Science And Engineering
15	PG	M. Tech in Electrical Power System	2025	-	Electrical Engineering

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. Tech. in Aeronautical Engineering

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.	Nil	Nil

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: - B. Tech. in Aeronautical Engineering

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	Bachelor of Technology in Aeronautical Engineering	2013	60	-	-	Yes	Accreditation for the period of three years (2019 - 20, 2020 - 21, & 2021 - 22), which is further extended for the period of three years (2022 - 23, 2023 - 24 & 2024 - 25) based on the compliance report submitted.	01 (Tier II)

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

Name of the HoD : Dr. Yuvaraj S

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

- **Regular** : ☑
- **Contract** : ☐
- **Ad hoc** : ☐

B. Qualification: (Tick the applicable choice)

- **Ph.D.** : ☑
- **ME/M.Tech** : ☐
- **Any other*** : ☐

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)	CAY (2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)	CAYm4 (2021-22)	CAYm5 (2020-21)	CAYm6 (2019-20)
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	60	53+0-4	42+2-2	43+0+0	36+0+0	41+0-1	47+10-2
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	-	18	8	11	7	7	12
N3= Separate division if any	-	-	-	-	-	-	-
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	10	9	9	9	8	8	8
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	**70**	**76**	**59**	**63**	**51**	**55**	**75**

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, CAY*m1*, and CAY*m2*))	CAY (2025-26)	CAY*m1* (2024-25)	CAY*m2* (2023-24)
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)	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	60	49	42
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	10	9	9
Enrolment Ratio (ER)= (N1+N4)/N	**ER_1=1.16**	**ER_2= 0.96**	**ER_3= 0.85**
Average ER= (ER_1+ ER_2+ ER_3)/3	**0.99**		

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	LYG (2024-25)	LYGm1 (2023-24)	LYGm2 (2022-23)
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).	51	55	75
B=No. of students who graduated from the program in the stipulated course duration	33	45	69
Success Rate (SR)= (B/A)*100	**SR_1=64.7**	**SR_2=81.8**	**SR_3=92**
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	**79.5**		

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	CAY*m1* (2024-25)	CAY*m2* (2023-24)	CAY*m3* (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)	7.25	7.32	6.34
Y= Total no. of successful students	48	42	52
Z = Total no. of students appeared in the examination	60	46	54
API = X* (Y/Z)	**API_1 = 5.8**	**API_2 = 6.68**	**API_3 = 6.10**
Average API = (API_1 + API_2 + API_3)/3	**6.19**		

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	CAY*m1* (2024-25)	CAY*m2* (2023-24)	CAY*m3* (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)	7.55	6.57	6.72
Y= Total no. of successful students	43	49	36
Z =Total no. of students appeared in the examination	49	60	41
API = X* (Y/Z)	**API_1 = 6.62**	**API_2 = 5.37**	**API_3 = 5.90**
Average API = (API_1 + API_2 + API_3)/3	**5.96**		

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	CAY*m1* (2024-25)	CAY*m2* (2023-24)	CAY*m3* (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)	6.41	6.9	7.02
Y= Total no. of successful students	48	33	46
Z= Total no. of students appeared in the examination	49	36	46
API = X* (Y/Z)	**AP_1 = 6.27**	**AP_2 = 6.32**	**AP_3 = 7.02**
Average API = (API_1 + API_2 + API_3)/3	**6.53**		

B9: Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2024-25)	LYGm1 (2023-24)	LYGm2 (2022-23)
FS*=Total no. of final year students	33	47	76
X= No. of students placed	20	30	51
Y= No. of students admitted to higher studies	4	5	0
Z= No. of students taking up entrepreneurship	-	-	0
X + Y + Z =	24	35	51
Placement Index (P) = (((X + Y + Z)/FS) * 100)	**P_1 = 72.72**	**P_2 = 74.47**	**P_3 = 67.1**
Average placement index = (P_1 + P_2 + P_3)/3	**71.43**		

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

S.N.	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this nstitution	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. Sendhil Kumar	Ph.D	Anna University, Chennai	Vibration and Structural Dynamics	01-Jul-2022	3.5	Professor	Professor	01-Jul-2022	Regular	N/A	-
2	Dr. Yuvaraj S	Ph.D	Anna University, Chennai	Aircraft Propulsion & Combustion	5-Jan-2022	4.0	Associate Professor	Professor	3-Jun-2024	Regular	N/A	-
3	Dr. K. M. Kiran Babu	Ph.D	Indian Institute of Technology Bombay, Mumbai	Aircraft Design	18-Jan-2016	9.5	Assistant Professor	Associate Professor	01 Mar 2023	Regular	N/A	31-May-2025
4	Dr. Vivekanandan A K	Ph.D	National Taiwan University of Science and Technology, Taiwan	Material Science	1-July-2022	3.0	Associate Professor	Associate Professor	1-July-2022	Regular	N/A	16-May-2025
5	Dr. Sudharson Murugan	Ph.D	National Taiwan University of Science and Technology, Taiwan	Thermal and Fluid Sciences	5-Mar-2024	1.7	Associate Professor	Associate Professor	5-Mar-2024	Regular	N/A	03-Dec-2025
6	Dr. Sakthipriya Balu	Ph.D	National Taiwan University of Science and Technology, Taiwan	Sustainable Energy Systems	1-Aug-2024	1.3	Associate Professor	Associate Professor	1-Aug-2024	Regular	N/A	-

7	Dr. Kalpit P. Kaurase	Ph.D	Hindustan Institute of Technology and Sciences, Chennai	Bionanocomposites, Hybrid Rocket Propulsion, Aerodynamics, UAVs	15-03-2025	0.7	Associate Professor	Associate Professor	15-03-2025	Regular	N/A	-
8	Mr. Kiran J. Burle	M.Tech.	VTU, Belgavi	Automation & Robotics	24-12-2012	13	Assistant Professor	Assistant Professor	-	Regular	N/A	-
9	Mr. Yogesh B. Kumbhar	M.Tech	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	Heat Transfer & IC Engines	23-Jan-2015	11.0	Assistant Professor	Assistant Professor	-	Regular	N/A	-
10	Mr. Reju R	M.E	Anna University, Chennai	Manufacturing & Maintenance	20-Jun-2017	8.6	Assistant Professor	Assistant Professor	-	Regular	N/A	-
11	Mr. Sanoj P Suresh	M.E	Anna University, Chennai	Aerodynamics	9-Jul-2018	7.4	Assistant Professor	Assistant Professor	-	Regular	N/A	-
12	Mr. Oblisamy L	M.E	Anna University, Tirunelveli	Aircraft Structures	3-Mar-2021	4.8	Assistant Professor	Assistant Professor	-	Regular	N/A	-
13	Mr. Sabarishwaran R	M.E	Anna University, Chennai	UAV Systems	3-May-2021	4.6	Assistant Professor	Assistant Professor	-	Regular	N/A	-
14	Mr. Basithrahman A	M.E	Anna University, Chennai	Composite Materials	22-Jan-2022	4	Assistant Professor	Assistant Professor	-	Regular	N/A	-
15	Dr. P. Kaleeswaran	Ph.D	B S Abdur Rahman Crescent Institute of Science and Technology, Chennai	Computational Fluid Dynamics	03-Jul-2022	3.6	Assistant Professor	Assistant Professor	-	Regular	N/A	
16	Mr. Karthik Pullela	M.E	Anna University, Chennai	Aircraft Propulsion	01-Aug-2023	2.3	Assistant Professor	Assistant Professor	-	Regular	N/A	-

Table No.2: Faculty details of Allied Departments for the past 3 years including CAY.

S.N.	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this nstitution	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"
Nil												

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):
  - PG_1=1st PG program.
  - PG_m=m^{th} 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 (2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG_1. B program // 2nd year students of UG_1	66	66	66
UG_1. C program // 3rd year students of UG_1	66	66	66
UG_1. D program // 4th year students of UG_1	66	66	66
UG_1 // Total no.of students(2nd, 3rd, 4th) in UG_1 program	198	198	198
DS=Total no. of students in all UG and PG programs in the Department	198	198	198
AS=Total no. of students of all UG and PG programs in allied departments	-	-	-
S=Total no. of students in the Department (DS) and allied departments (AS)	198	198	198
DF=Total no. of faculty members in	13	14	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	14	12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	**16.5**	**14.14**	**16.5**
Average SFR for 3 years	**15.71**		

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]
CAY (2025-26)	5	8	10	20.5
CAYm1 (2024-25)	7	7	10	25
CAYm2 (2023-24)	3	9	10	17

C4: Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required Faculty (RF1)	Available Faculty (AF1)	Required Faculty (RF2)	Available Faculty (AF2)	Required Faculty (RF3)	Available Faculty (AF3)
CAY (2025-26)	1	2	2	2	7	9
CAYm1 (2024-25)	1	2	2	4	7	8
CAYm2 (2023-24)	1	1	2	3	7	8
Average Numbers	**RF1 = 1**	**AF1 = 1.6**	**RF2 = 2**	**AF2 = 3**	**RF3 = 7**	**AF3 = 8.3**

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
CAY*m1* (2024-25)				
1	Mr. Arun V A	Manager of Training and Development, Crynofist Design and Engineering Solutions Pvt. Ltd.	Course on Aerospace Technical Publication	60
			Total no. of hours	60
CAY*m2* (2023-24)				
1	Mr. Arun V A	Manager of Training and Development, Crynofist Design and Engineering Solutions Pvt. Ltd.	Course on Aerospace Technical Publication	60
			Total no. of hours	**60**
CAY*m3* (2022-23)				
1	Mr. Arun V A	Manager of Training and Development, Crynofist Design and Engineering Solutions Pvt. Ltd.	Course on Aerospace Technical Publication	60
			Total no. of hours	**60**

C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAY*m1* (2024-25)	CAY*m2* (2023-24)	CAY*m3* (2022-23)
1	No. of peer reviewed journal papers published	7	5	4
2	No. of peer reviewed conference papers published	2	3	7
3	No. of books/book chapters published	1	3	-

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 (Lakhs)
CAY*m1* (2024-25)							
NIL							
CAY*m2* (2023-24)							
1.	Dr. Vivekanandan A K	Mr. K. M. Kiran Babu	Aeronautical Engineering	Autonomous Guided Vehicle For Chimney Inspection for	M/s KUB Quality Services, Pune	12 months	2.04

				Thickness Measurement			
						Amount received (Lakhs)	2.04
CAY*m3* (2022-23)							
NIL							
						Total Amount (Lakhs) Received for the Past 3 Years	2.04

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 (Lakhs)
CAY*m1* (2024-25)							
1	Dr. S. Yuvaraj	Mr.Oblisamy	Aeronautical Engineering	Ultrasound Testing of Shafts	Dr. Patangrao Kadam Sonhira Shakari Sakhar Karkhana Ltd.	1 Week	0.4475
2	Dr. S. Yuvaraj	Mr.Oblisamy	Aeronautical Engineering	Ultrasound Testing of Shafts	Bharti Sugars and Fuels Pvt. Ltd.	1 Week	0.2388
3	Dr. S. Yuvaraj	Mr.Oblisamy	Aeronautical Engineering	Ultrasound Testing of Shafts	Uday Innovations, Sangli	1 Week	1.4461
4	Dr. S. Yuvaraj	Mr.Oblisamy	Aeronautical Engineering	Ultrasound Testing of Shafts	Uday Reshellers and Cast alloys, Sangli	1 Week	0.35
						Amount received (Lakhs)	**2.4824**
CAY*m2* (2023-24)							
1	Dr. S. Yuvaraj	Mr. Basithrahman A	Aeronautical Engineering	Ultrasound Testing of Shafts	Dr. Patangrao Kadam Sonhira Shakari Sakhar Karkhana Ltd.	1 Week	0.238
2	Dr. S. Yuvaraj	Mr. Basithrahman A	Aeronautical Engineering	Ultrasound Testing of Shafts	Bharti Sugars and Fuels Pvt. Ltd.	1 Week	0.074
						Amount received (Lakhs)	**0.312**
CAY*m3* (2022-23)							
1	Dr. S. Yuvaraj	-	Aeronautical Engineering	Design And Development of Automation System for Droni	M/s Jothi Timber Depot	3 Months	7.046
2	Mr. Sanoj P Suresh	Mr. Reju R Mr. Sabarishswaran Mr. K. M. Kiran Babu	Aeronautical Engineering	Reverse Engineering Study	M/s Menon and Menon Ltd	3 Months	7.5125
						Amount received (Lakhs)	**14.5585**
						Total amount (Lakhs) received for the past 3 years	**17.3529**

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

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 (Lakhs)	Amount Utilized (Lakhs)	Outcomes of the project
CAY*m1* (2024-25)						
1	Dr. S. Yuvaraj	Design, Fabrication, and Testing of a Hydrogen Storage System of Fuel Cells	12 Months	0.2	0.2	Prototype Developed, 01 Journal Papers Published Contact with IIT Bombay Established
Amount received (Lakhs)				**0.2**	**0.2**	
CAY*m2* (2023-24)						
1	Dr. Vivekanandan A. K	Surface engineering of aerospace aluminium alloy for enhanced corrosion protection.	12 Months	2	1.65	Setup Developed 02 Conference Publications
2	Mr. K. M. Kiran Babu	Aerodynamic Investigation of Variable Volume Balloons	06 Months	1.25	0.85	Prototype Developed Patent Granted
Amount received (Lakhs)				**3.25**	**2.5**	
CAY*m3* (2022-23)						
1	Dr. S. Sendhilkumar	Design and Development of Rotor-Bearing Test Rig	12 Months	2	1.52	Laboratory Equipment Developed 01 Conference Publication
Amount received (Lakhs)				**2**	**1.5**	
Total amount (Lakhs) received for the past 3 years				**5.45**		

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	15	Subsonic Wind Tunnel	08 Hours/Week	Mr. Subham V. Patil	Laboratory Assistant	Diploma in Mechanical Engineering
2	Aircraft Materials and Structures Laboratory	20	Universal Testing Machine	08 Hours/Week	Mr. Abhishek	Laboratory Assistant	Diploma in Mechanical Engineering
3	Fluid Mechanics Laboratory	20	Peloton, Kaplan and Francis Turbine	08 Hours/Week	Mr. Rushikesh Jagdale	Laboratory Assistant	Diploma in Mechanical Engineering
4	Vibrations and Condition Monitoring Laboratory	15	Bearing Test Rig	08 Hours/Week	Mr. Abhishek	Laboratory Assistant	Diploma in Mechanical Engineering
5	Computer Aided Drafting Laboratory	20	15 Computers	16 Hours/Week	Mr. Ravi Patil	Laboratory Assistant	Diploma in Mechanical Engineering
6	Computational Fluid Dynamics Laboratory	15	15 Computers	16 Hours/Week	Mr. Ravi Patil	Laboratory Assistant	Diploma in Mechanical Engineering
7	Aircraft Hangar	20	Cessna 152 and Maintenance Accessories	08 Hours/Week	Mr. Subham V. Patil	Laboratory Assistant	Diploma in Mechanical Engineering
8	Propulsion Laboratory	15	Combustion Test Rig	08 Hours/Week	Mr. Ajit Patil	Laboratory Assistant	Diploma in Mechanical Engineering
9	Center for Non-Destructive Testing	15	Ultrasonic Flaw Detector, Magnetic Particle Test Rig	08 Hours/Week	Mr. Ajit Patil	Laboratory Assistant	Diploma in Mechanical Engineering

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	○ Fire Extinguisher ○ Ear Muffler ○ Walkie Talkie for short range communication ○ First Aid box
2	Aircraft Materials and Structures Laboratory	○ Fire Extinguisher ○ First Aid box
3	Fluid Mechanics Laboratory	○ Fire Extinguisher ○ First Aid box
4	Vibrations and Condition Monitoring Laboratory	○ Fire Extinguisher ○ First Aid box
5	Computer Aided Drafting Laboratory	○ Fire Extinguisher ○ First Aid box

		○ Anti Virus
6	Computational Fluid Dynamics Laboratory	○ Fire Extinguisher ○ First Aid box ○ Anti Virus
7	Aircraft Hangar	○ Fire Extinguisher ○ Ear Muffler ○ Walkie Talkie for short range communication ○ First Aid box
8	Propulsion Laboratory	○ Fire Extinguisher ○ Ear Muffler ○ First Aid box
9	Center for Non-Destructive Testing	○ Fire Extinguisher ○ First Aid box

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	Project Laboratory ○ Workshop Tools and Equipment
2	Center of Excellence in Autonomous Aerial Systems ○ Leap A10 - 2 Nos (DGCA Type Certified Drone, Hexacopter, Category : Rotorcraft, Class : Medium) ○ Leap TR50 Thrust Stand with Torque cell ○ FrSky Taranis Q X7 2.4GHz Transmitter with Receiver ○ Pluto 1.2 Kit - 5 Nos, Nano Drone ○ Pluto X Kit - 5 Nos, Nano Drone

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=((NS1*0.8)+(NS2*0.2))/RF4
CAY (2025-26)	750	38	28	38	78.9
CAY*m1* (2024-25)	690	35	28	25	78.2
CAY*m2* (2023-24)	660	33	20	27	64.8
				Average Percentage	**73.96**

E2: Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level (INR in Lakhs).

Items	Budgeted in CFY (2025-26)	Actual expenses in CFY (2025-till 31/12/2025) (Subjected to Audit)	Budgeted in CFY*m1* (2024-25)	Actual expenses in CFY*m1* (2024-25)	Budget ed in CFY*m2* (2023-24)	Actual Expenses in CFY*m2* (2023-24)	Budget ed in CFY*m3* (2022-23)	Actual Expenses in CFY*m3* (2022-23)
Infrastructure Built-Up	250	45.70165	250	222.80668	425	407.60118	400	382.38906
Library	20	10.24742	5	3.22186	10	9.41888	15	14.95435
Laboratory equipment	400	112.74898	164.5	142.31402	422	399.09244	295.5	271.97404
Teaching and non-teaching staff salary	2300	1378.45241	2015	1963.1423	1725	1703.44816	1675	1613.0762
Outreach Programs	10	8.30378	9	8.7018	8	7.6945	7	6.99708
R&D	35	26.21599	35	34.95465	8	7.67936	7.5	6.04803
Training, Placement and Industry linkage	35	24.17906	35	32.23874	10	9.24411	3	2.78857
SDGs	80	45.66706	75	74.76802	75	70.93304	40	36.36736
Entrepreneurship	27.5	19.28767	26	25.08756	20	18.82655	23.5	23.21307
Others*, pl. specify	425	212.5	429.05	403.70128	421	407.76969	296.4	297.5199424
Total amount (Lakhs)	**3582.5**	**1883.30402**	**3043.55**	**2910.93691**	**3124**	**3041.70791**	**2762.9**	**2655.3277024**

E3: Budget Allocation, Utilization, and Public Accounting at Program Specific

Level Table No. E3.1: Budget and actual expenditure incurred at program level (INR in Lakhs).

Items	Budgeted in CFY (2025-26)	Actual expenses in CFY (2025-till 31/12/2025) (Subjected to Audit)	Budgeted in CFY*m1* (2024-25)	Actual expenses in CFY*m1* (2024-25)	Budgeted in CFY*m2* (2023-24)	Actual Expenses in CFY*m2* (2023-24)	Budget ed in CFY*m3* (2022-23)	Actual Expenses in CFY*m3* (2022-23)
Laboratory equipment	25	2.54153	30	25.64875	28.5	28.13963	7.5	7.27742
Software	9	8.1774	6	5.1	5	4.72	5	4.72
SDGs	6.5	3.54147	6	5.51545	6	5.72271	3.5	3.26393
Support for faculty development	0.8	0.59624	0.75	0.74884	0.5	0.45997	0.75	0.60947
R & D	3	2.03304	2.5	2.55336	0.75	0.61955	0.75	0.5428
Industrial Training, Industry expert, Internship	0.75	0.42512	0.75	0.53393	0.75	0.74579	0.5	0.25027
Miscellaneous expenses *	35	16.47931	35	29.48951	35	32.89792	30	26.70208
Total amount (Lakhs)	**80.05**	**33.79411**	**81**	**69.79984**	**76.5**	**73.30557**	**48**	**43.36597**