NATIONAL BOARD OF ACCREDITATION

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

Program Name : Aeronautical Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10318	**Date of Submission**: 15-03-2025

PART A- Profile of the Institute

A1.Name of the Institute: MLR INSTITUTE OF TECHNOLOGY	
Year of Establishment : 2005	Location of the Institute: Dundigal
A2. Institute Address:NA	
City:--Select--	State:Andhra Pradesh
Pin Code:500043	Website:www.mlrit.ac.in
Email:DIRECTOR@MLRINSTITUTIONS.AC.IN	Phone No(with STD Code):99-49810842
A3. Name and Address of the Affiliating University (if any):	
Name of the University : JNT UNIVERSITY HYDERABAD	City: Medchal
State : Telangana	Pin Code: 500085
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: **11**
- No. of PG programs: **5**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Aeronautical Engineering	2005	--	Aeronautical Engineering
2	Engineering & Technology	PG	Aerospace Engineering	2010	2024	Aeronautical Engineering
3	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	2022	Artificial Intelligence and Machine Learning
4	Engineering & Technology	UG	Computer Science & Information Technology	2020	2024	Computer Science and Information Technology
5	Engineering & Technology	UG	Computer Science and Engineering	2005	--	Computer Science and Engineering
6	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)

8	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2020	2023	Computer Science and Engineering (Cyber Security)
9	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	--	Computer Science and Engineering (Data Science)
10	Engineering & Technology	UG	Electrical & Electronics Engineering	2017	--	Electrical and Electronics Engineering
11	Engineering & Technology	UG	Electronics & Communication Engineering	2005	--	Electronics and Communication Engineering
12	Engineering & Technology	PG	Embedded Systems	2014	--	Electronics and Communication Engineering
13	Engineering & Technology	UG	Information Technology	2005	2024	Information Technology
14	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
15	Engineering & Technology	PG	Thermal Engineering	2013	--	Mechanical Engineering
16	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
Aeronautical Engineering	No	Aeronautical Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Aeronautical Engineering	UG	2005 / --	60	Yes	2020	60	2020	South-Central/1-7003524216/2020/EOA/Corrigendum-3	Granted accreditation for 3 years for the period (specify period)	2016	2025	3	4

Sanctioned Intake for Last Five Years for the Aeronautical Engineering	
Academic Year	**Sanctioned Intake**
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	60
2019-20	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. M. Satyanarayana Gupta
B. Nature of appointment:	Regular
C. Qualification:	ME/M. Tech and PhD

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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (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	60	60	60	54	61	86	112
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	5	13	6	19	21
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	4	4	5	2	0	0	0

Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	64	69	70	69	67	105	133

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]
2024-25 (CAY)	60	60	4	106.67
2023-24 (CAYm1)	60	60	4	106.67
2022-23 (CAYm2)	60	60	5	108.33

Average [(ER1 + ER2 + ER3) / 3] = 107.22≡ 100

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	67.00	105.00	133.00
B=No. of students who graduated from the program in the stipulated course duration	58.00	104.00	124.00
Success Rate (SR)= (B/A) * 100	86.57	99.05	93.23

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 92.95

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	6.72	6.81	6.63
Y=Total no. of successful students	64.00	65.00	56.00
Z=Total no. of students appeared in the examination	64.00	65.00	56.00
API [X*(Y/Z)]	6.72	6.81	6.63

Average API[(AP1+AP2+AP3)/3] : 6.72

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	5.98	5.30	5.69
Y=Total no. of successful students	64.00	62.00	63.00
Z=Total no. of students appeared in the examination	70.00	69.00	67.00
API [X * (Y/Z)]	5.47	4.76	5.35

Average API [(AP1 + AP2 + AP3)/3] : 5.19

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	5.44	5.74	6.12
Y=Total no. of successful students	56.00	59.00	104.00
Z=Total no. of students appeared in the examination	62.00	63.00	104.00
API [X*(Y/Z)]:	4.91	5.38	6.12

Average API [(AP1 + AP2 + AP3)/3] : 5.47

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	66.00	139.00	141.00
X=No. of students placed	36.00	62.00	71.00
Y=No. of students admitted to higher studies	16.00	27.00	26.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	78.79	64.03	68.79

Average Placement Index = (P_1 + P_2 + P_3)/3: 70.54 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. M. Satyanarayana Gupta	XXXXXXX02B	XXXXXXXXXXXXXXXPhD	JNTUH	Design &Production	01/11/2014	10.3	Professor	Professor	01/11/2014	Regular	Yes		Yes
2	Dr.A Vivek Anand	XXXXXXX98H	XXXXXXXXXXXXXXXPhD	Anna University	Aircraft structures & surface Engineering	04/05/2019	5.9	Professor	Professor	04/05/2019	Regular	Yes		No

3	Mr. K Veeranjaneyulu	XXXXXXX95P	M.E/M.Tech	Anna University	Aerospace Engineering	11/08/2014	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mr.M.Ganesh	XXXXXXX97C	M.E/M.Tech	JNTUH	Aerospace Engineering	18/01/2011	14.1	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr.A.Saikumar	XXXXXXX17P	M.E/M.Tech	JNTUH	Aerospace Engineering	28/05/2012	12.8	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr. Nagaraj Goud	XXXXXXX35K	M.E/M.Tech	JNTUH	Aerospace Engineering	15/06/2012	12.8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr. S Sreekanth	XXXXXXX23N	M.E/M.Tech	OU	Advanced Design & Manufacturing	30/11/2016	8.2	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mrs A Udaya Deepika	XXXXXXX38Q	M.E/M.Tech	JNTUH	Aerospace Engineering	02/12/2016	8.2	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. Nirmith Kumar Mishra	XXXXXXX13B	M.E/M.Tech	JNTUH	Aerospace Engineering	19/06/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr.N.Uday Ranjan Goud	XXXXXXX37M	M.E/M.Tech	JNTUH	Aerospace Engineering	02/07/2018	6.7	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr.B.Manideep	XXXXXXX95K	M.E/M.Tech	JNTUH	Aerospace Engineering	08/07/2019	5.7	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr.K.Arun kumar	XXXXXXX33E	M.E/M.Tech	Anna University	Aeronautical Engineering	12/06/2019	5.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	G.Sravanthi	XXXXXXX68Q	M.E/M.Tech	JNTUH	Aerospace Engineering	08/07/2019	5.7	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Dr. Yelamasetti Balram	XXXXXXX42Q	XXXXXXXXXXXXXXXPhD	VIT University	Design &Production	20/07/2022	2.7	Associate Professor	Associate Professor	20/07/2022	Regular	Yes		No
15	Mr. M Srikanth	XXXXXXX38P	M.E/M.Tech	JNTUH	Aerospace Engineering	03/12/2018	5.6	Assistant Professor	Assistant Professor		Regular	No	24/06/2024	No
16	Mrs. MNVS Swethabala	XXXXXXX85B	M.E/M.Tech	JNTUH	Aerospace Engineering	03/12/2018	6.2	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr. K V Shravan	XXXXXXX03M	XXXXXXXXXXXXXXXPhD	Rigas Tehniska Universitate	Space Engineering	15/02/2022	1.10	Associate Professor	Associate Professor	15/02/2022	Regular	No	30/12/2023	No
18	Mr. K Shiva Shankar	XXXXXXX57K	M.E/M.Tech	JNTUH	Aerospace Engineering	17/09/2012	10.8	Assistant Professor	Assistant Professor		Regular	No	20/05/2023	No
19	Mr. D Mahesh Kumar	XXXXXXX86G	M.E/M.Tech	JNTUH	Aerospace Engineering	29/10/2018	4.7	Assistant Professor	Assistant Professor		Regular	No	10/06/2023	No
20	Mr. M Lijomon	XXXXXXX05F	M.E/M.Tech	Anna University	Aeronautical Engineering	03/04/2023	1.8	Assistant Professor	Assistant Professor		Regular	No	31/12/2024	No
21	Dr. Sai Prakash	XXXXXXX50F	XXXXXXXXXXXXXXXPhD	Anna University	Aero Dynamics	22/12/2018	6.2	Assistant Professor	Associate Professor	01/11/2019	Regular	Yes		No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm=mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio **(SFR)** = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.
No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.
F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department1

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	65	65	66
UG1.C	65	66	66
UG1.D	66	66	132
UG1: Aeronautical Engineering	**196**	**197**	**264**
PG1.A	0	6	6
PG1.B	6	6	18
PG1: Aerospace Engineering	**6**	**12**	**24**
DS=Total no. of students in all UG and PG programs in the Department	202	209	288
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 202	**S2=** 209	**S3=** 288
DF=Total no. of faculty members in the Department	16	18	20
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=** 16	**F2=** 18	**F3=** 20
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 12.63**	**SFR2= 11.61**	**SFR3= 14.40**
Average SFR for 3 years	**SFR= 12.88**		

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)]
2024-25(CAY)	4	12	10.00	22.00
2023-24(CAYm1)	4	14	10.00	24.00
2022-23(CAYm2)	5	15	14.00	19.64

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	1.00	2.00	2.00	2.00	6.00	12.00
2023-24	1.00	2.00	2.00	2.00	6.00	14.00
2022-23	1.00	2.00	3.00	3.00	9.00	15.00
Average	RF1=1.00	AF1=2.00	RF2=2.33	AF2=2.33	RF2=7.00	AF2=13.67

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	Dr S Gollakota	Outstanding Scientist (Rtd)	DRDL	Wind Tunnel Techniques	30.00
2	Mr B. Ravi Teja	Technical Manager	Synergem	Fundamentals of Engineering Materials	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr B. Ravi Teja	Technical Manager	Synergem	Fundamentals of Engineering Materials	30.00
2	Dr S Gollakota	Outstanding Scientist (Rtd)	DRDL	Avionics and Flight Control Systems	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr S Gollakota	Outstanding Scientist (Rtd)	DRDL	Airport Management	30.00
2	Dr S Gollakota	Outstanding Scientist (Rtd)	DRDL	Avionics and Flight Control Systems	30.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	39	13	10
2	No. of peer reviewed conference papers published	28	50	23
3	No. of books/book chapters published	3	2	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 Vivek Anand A		Aeronautical	GI-Mahostav-3 days product exhibition	MSME	3 days	37.00
Dr Vivek Anand A		Aeronautical	National Level IP-Yatra Programmes on Intellectual Property Rights	MSME	2 days	10.00
Dr Vivek Anand A	Mr.Nirmith Kumar & Mr. Sai Kumar	Aeronautical	Micropatterned Surface for Drag Reduction & Anti-icing in Drones	HEXAIND Technologies	1 Year	11.00
						Amount received (Rs.):58.00

(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
Dr M Satyanarayana Gupta	Dr Vivek Anand A	Aeronautical	Hydrophobic surface for SS 304 to reduce wettability and corosion	KB Autocrafts	1 Year	10.00
						Amount received (Rs.):10.00

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 68.00

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
Dr. A Vivek Anand		Aeronautical	Technology Transfer patent app-202241029321	Akshaya Hitech Enterprise	1 week	5.00
Dr. A Vivek Anand		Aeronautical	Technology Transfer patent app-202041019160	WAWE SMART TOYSPRIVATE LTD	1 week	6.00
						Amount received (Rs.):11.00

(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
Dr.M.Satyanarayana Gupta		Aeronautical	Single cot	VR Engineering Works	3 months	1.18
Mr.A Sai Kumar		Aeronautical	Single cot	VR Engineering Works	3 months	1.48
Mr. Nirmith Kumar Mishra		Aeronautical	Almara	VR Enterprises	3 months	0.94
S.Sreekanth		Aeronautical	Staff Room Table	BR Industries	3 months	0.89
Mr.Ganesh		Aeronautical	Duel desk	VR Enterprises	3 months	1.42
B.Nagaraj Goud		Aeronautical	2 seat Duel Desk	Sai SIndhu Industries	3 months	1.30
K.Arunkumar		Aeronautical	2 seat Duel Desk	Sai SIndhu Industries	3 months	1.18
N.Uday Ranjan Goud		Aeronautical	2 seat Duel Desk	BR Industries	3 months	1.06
B.Manideep Guptha		Aeronautical	2 seat Duel Desk	BR Industries	3 months	1.00
K.Veeranjaneyulu		Aeronautical	2 seat Duel Desk	BR Industries	3 months	1.36
Dr. A Vivek Anand		Aeronautical	Patent Facilitation - Application Number:202241034654	Dr. G Kiran Kumar, CBIT, Hyderabad	1 week	0.01
						Amount received (Rs.):11.82

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. A Vivek Anand		Aeronautical	Pilot study – Face shield	Akshaya Hitech Enterprise	3 months	0.12
Ms. MadhaviNagireddy		Aeronautical	CNC milling and turning	Shanmuka Tools & Engineering Works	3 months	0.50
Mrs. SwethaBala MNVS		Aeronautical	Milling, drilling and surface grinding of EN8	Shanmuka Tools & Engineering Works	3 months	0.30
Mr. K Arunkumar		Aeronautical	Drone body using 3D printing	Shanmuka Tools & Engineering Works	3 months	0.20
Mr. B Nagaraj Goud		Aeronautical	Milling, turning, drilling and taping	Hari Hara Machine Tools	3 months	0.49
Mrs. A UdayaDeepika		Aeronautical	Turning, drilling and tapping	Hari Hara Machine Tools	3 months	0.32
Mrs. A UdayaDeepika		Aeronautical	Shaft turning	Hari Hara Machine Tools	3 months	0.12
Mr Nirmith Kumar		Aeronautical	Corporate Training	Tata Advanced Systems	1 Year	3.60
						Amount received (Rs.):5.65

Total amount (Lacs) received for the past 3 years: 28.47

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr Arunkumar K	behaviors of steel mesh/flax/basalt fiber metal laminates	1 year	1.62	1.61	1SCIE Q2 paper published
Mr S Sreekanth	Analysis and Fabrication of Aluminium Composite	1 year	1.00	1.00	1 scopus paper published
Mr Nirmith Kumar Mishra	Lightweight Fuselage Design Using Composite Materials for ADC Aircraft	1 year	1.00	1.00	Participated in SAE Event
Mr Sai Kumar	Modular Design Approach for Quick Assembly of UAV Components	1 year	1.00	1.00	Participated in SAE Event and the findings are drafted as a paper to publish in SCOPUS indexed Journal
Mr Arunkumar K	Computational Analysis of Tiltable Wing Quadcopter	8 Months	0.30	0.30	one Q1 Paper published
Dr Vivek Anand A	Entropy-optimized MHD three-dimensional solar slendering sheet of micropolar hybrid nanofluid flow	1.5 Years	1.00	1.00	one Q1 Paper published
Mr Arunkumar K	Design and Optimization on Advanced Composite Materials	10 Months	0.95	0.95	Two Q2, one Q3 and one Scopus paper published
			Amount received (Rs.): 6.87		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr Manideep B	Structural Integrity Analysis of Balsa and Carbon Fiber Aircraft Wings	1 Year	0.44	0.44	Participated in SAE Event and the findings are drafted as a paper to publish in SCOPUS indexed Journal
			Amount received (Rs.): 0.44		

(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
			Amount received (Rs.): 0		

Total amount (Lacs) received for the past 3 years : 7.31

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	Mechanics of Solids Lab	2	1.Computerised UTM-20/40 tons 2.Deflection Test Rig 3.Torsion Testing Machine 4.Hardness Testing machine	1.II year I Sem-	Mr. Mohammad Shareef I	Lab Technician	ITI
2	Mechanics of Fluids Lab	2	1. Venturi Meter 2. Flow Over Notch 3.Pipe Friction Apparatus 4.Bernoulli's Apparatus 5. Orifice Meter	1.II year I Sem-	Mr.B Hanmandlu	Lab Technician	ITI
3	Computer Aided Aircraft Manufacturing Lab	1	1. PC'S, 2.CATIA	II year I Sem- A	Mr..G.Suman	Lab Assistant	B.Tech
4	Aircraft Interior Design Lab	1	1. PC'S, 2.AUTOCAD 3. CATIA	1.II year II Sem	Mr.B.Manichandar	Lab Assistant	ITI
5	Python Lab	1	PC'S,	II year II Sem-	Mr.G.Sanjeev Naik	Programmer	B.Com (Computers)
6	Propulsion Lab	3	1.2-S Piston Engine Cut Section 2.4-S Piston Engine Cut Section 3. Heat Engine Test Rig 4 Stroke Engine	III year I Sem-	Mr.K.Mallesh	Lab Technician	ITI

7	Flight Simulation Lab	3	Flight Simulation setup	III year I Sem-	Mr.B Hanmandlu	Lab Technician	ITI
8	Aerospace Vehicle structures Lab	1	1.Shear Center Test Rig 2. Ultrasonic Flaw Detector 3 Magnetic Particle Flaw Detector 4. Dye Penetration	III year I Sem-	Mr. Mohammad Shareef I	Lab Technician	ITI
9	Aerodynamics Lab	3	1.Subsonic Wind Tunnel 3.Axial Flow Compressor 3.Centrifugal Flow Compressor	III year I Sem-	Mr.G.Mahipal Reddy	Lab Technician	ITI
10	Aircraft Production Technology Lab	1	1.Lathe Machine 2.Milling Machine 3.Drilling Machine 4.Shaper 5.Planer 6.Slotting Machine 7.Surface	III year II Sem-	Mr.N.Nagaraju	Lab Technician	ITI
11	Computational Structural Analysis Lab	1	1. PC'S,2.ANSYS3.CATIA	III year II Sem-	Mr.G.Suman	Lab Assistant	B.Tech
12	Computational Analysis of Composite and Structures Lab	1	1. PC'S,2.ANSYS3.CATIA	IV year I Sem-	Mr.B.Manichandar	Lab Technician	ITI
13	Computational Fluid Dynamics Lab	1	1. PC'S,2..ANSYS – CFX 3.MATLAB	IV year I Sem-	Mr.G.Sanjeev Naik	Programmer	B.Com (Computers)
14	Engineering Workshop AND Manufacturing Practices Lab	2	. Carpentry tools 2.Fitting tools 3.Casting Set up 4.Blacksmithy Tools 5. Lathe 6. Arc & Gas welding 7.	B.Tech i Year I	Mr.K.Mallesh	Lab Technician	ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Mechanics of solids Lab	1. Impact Testing Machine is enclosed in a guard to ensure that the broken specimen should not go out 2. Cleaning up broken pieces immediately after the test CC Cameras 3. First Aid Box 4. Do's & Don'ts Display boards
2	Mechanics of Fluids Lab	1. Regular changing of water. 2. Soon after conducting the experiment the power is turned off 3. CC Cameras 4. First Aid Box 5. Do's & Don'ts Display boards 6. Sand bucket
3	Computer Aided Aircraft Manufacturing Lab	1. Proper organizing of all connections and LAN WIRES 2. AC 'S are on for cooling of UPS and pc'S 3. Anti- virus updation for every 3 month 4. Firewall is off all the time 5. Temp Files are cleared weekly once 6 Fire Alarm Panel 7 CC Cameras 8 First Aid Box
4	Aircraft Interior Design Lab	1. Proper organizing of all connections and LAN WIRES 2. AC 'S are on for cooling of UPS and pc's 3. Anti- virus updating for every 3 months 4. Firewall is off all the time 5. Temp Files are cleared weekly once 6 Fire Alarm Panel 7 CC Cameras 8 First Aid Box

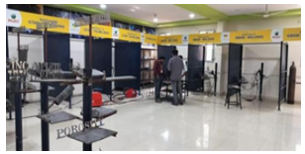
5	Python Lab	1. Proper organizing of all connections and LAN WIRES 2. AC ‘S are on for cooling of UPS and pc’S 3. Anti- virus updation for every 3 month 4. Firewall is off all the time 5. Temp Files are cleared weekly once 6 Fire Alarm Panel 7 CC Cameras 8 First Aid Box
6	Propulsion Lab	1. Ic engines will be run every week. 2. Checks for leaks are performed regularly. 3. CC Cameras 4. First Aid Box 5. Do’s & Don’ts Display boards
7	Flight Simulation Lab	1.Fire Alarm Panel 2.CC Cameras 3.First Aid Box 4. Do’s & Don’ts Display boards
8	Aerospace Vehicle structures Lab	1.CC Cameras 2.First Aid Box 3.Do’s & Don’ts Display boards
9	Aerodynamics Lab	1. Wind tunnel fan blades are housed inside a steel cage to make it inaccessible to the students. 2. Ear mufflers are used while operating a supersonic wind turnnel facility to protect from noise. 3. Checks for leaks are performed regularly before filling the reservoir to its full capacity. 4. Masks are mandatory while performing smoke flow visualization tests. 5. CC Cameras 6. First Aid Box 7. Do’s & Don’ts Display boards
10	Aircraft Production Technology Lab	1. Safety gloves and goggles are mandatory to conduct the experiment 2.CC Cameras 3.First Aid Box 4.Do’s & Don’ts Display boards 5. Dampers used to reduce vibrations
11	Computational Structural Analysis Lab	1. Proper organizing of all connections and LAN WIRES 2. AC ‘S are on for cooling of UPS and pc’S 3. Anti- virus updating for every 3 months 4. Firewall is off all the time 5. Temp Files are cleared weekly once 6.CC Cameras 7. Do’s & Don’ts Display boards
12	Computational Analysis of Composite and Structures Lab	1. Proper organizing of all connections and LAN WIRES 2. AC ‘S are on for cooling of UPS and pc’S 3. Anti- virus updating for every 3 months 4. Firewall is off all the time 5. Temp Files are cleared weekly once 6.CC Cameras 7. Do’s & Don’ts Display boards
13	Computational Fluid Dynamics Lab	1. Proper organizing of all connections and LAN WIRES 2. AC ‘S are on for cooling of UPS and pc’S 3. Anti- virus updating for every 3 months 4. Firewall is off all the time 5. Temp Files are cleared weekly once 6. CC Cameras 7. Do’s & Don’ts Display boards
14	Engineering Workshop Lab	1.Safety gloves and goggles are mandatory to conduct the experiment. 2.CC Cameras 3.First Aid Box 4.Do’s & Don’ts Display boards 5.Sand bucket

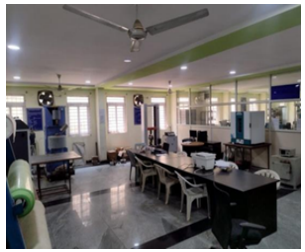
D3. Project Laboratory/Research Laboratory

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence.

S.NO	Name of the Laboratory
1	Centre of Excellence - Welding Technology
2	Centre of Excellence - Non-Destructive Testing
3	Research Laboratory - Computational Engineering
4	Research Laboratory - Advanced Composite Materials
5	Project Laboratory

7.5.2 Details of laboratories for supporting projects, research, Centre of Excellence, innovation, and startups etc.

S.No	Name of the Laboratory	List of equipment	outcomes
1	**Centre of Excellence - Welding Technology** 	1. **TIG - Welding** 2. **SMAW -Welding** 3. **GTAW - Welding** 4. **GMAW-Welding**	**1. 16 students completed internship** **2. 11 students got offers in m/s EIS** **3. 10 students got offers in m/s IXAR** **4. 10 students got offers in m/s Geecy**
2	**Centre of Excellence - Non-Destructive Testing** 	1. **ULTRASONIC TESTING** 2. **RADIOGRAPHY TESTING** 3. **LIQUID PENETRANT TESTING** 4. **Magnetic Particle Testing** 5. **VMAG NDT Automation**	**1. 16 students completed internship** **2. 11 students got offers in m/s EIS** **3. 10 students got offers in m/s IXAR** **4. 10 students got offers in m/s Geecy**

3	**Research Laboratory - Computational Engineering** 	1. **Pc's 30** 2. **ANSYS (ACP, CFX, CFD, APDL)** 3. **MATLAB** 4. **HYPERMESH** 5. **Solid works** 6. **Fusion 360**	**1.20 major projects are carried out by students.** **2. 10 papers got published** **3. 10 patents were published** **4. 45 students got certification in Dassault Systems "solid works certification course"** **5.29 faculty got certified in FUSION 360** **6. Two faculty development programs organized** **7.Three student training programs conducted**
4	**Research Laboratory - Advanced Composite Materials** 	1. **Bottom pouring type stir casting machine** 2. **Computerized Universal Testing Machine** 3. **Digital Ultrasonic Flaw Detector** 4. **Barcol Hardness Tester** 5. **Muffle Furnace**	**1. 15 major projects are carried out by students.** **2. 7 papers got published** **3. 5 patents were published** **4. conducted one student training program.**

5	**Project Laboratory** 	1. **Rc's** 2. **Battery chargers** 3. **Tool kits** 4. **Hot Air Gun** 5. **Dremel kit**	**1. Fabricated fixed wing UAVs and exhibited in various competitions.** **2. Fabricated drones for various applications and exhibited in various competitions.** **3. Students have bagged cash prize of nearly 1.5 lakh rupees over these years.** **4. students received bundles of prizes by participating various competitions like Drone Design Challenge (DDC) Autonomous Drone Design Challenge (ADDC)** **Bi Cycle Design Challenge (BDC) Electric Two-Wheeler Design Challenge (ETWDC)** **organized by SAE INDIA.**

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2022-23(CAYm2)	1320	66	50	15	65

2023-24(CAYm1)	1440	72	58	19	70
2024-25(CAY)	1020	51	58	21	99

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

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	7500000.00	7574506.00	9000000.00	8594884.00	117000000.00	115980277.00	50000000.00	49352618.00
Library	1900000.00	1849230.00	3000000.00	2839275.00	2400000.00	2385029.00	4100000.00	4037917.00
Laboratory equipment	10500000.00	10219503.00	24500000.00	24444761.00	28500000.00	28129329.00	25500000.00	25173922.00
Teaching and non-teaching staff salary	350000000.00	345020998.00	350000000.00	330938647.00	207500000.00	206774402.00	255000000.00	250938539.00
Outreach Programs	830000	808552	830000	826839	780000	773949	720000	712543
R&D	14500000.00	14206905.00	12000000.00	11740304.00	5500000.00	5238455.00	4000000.00	3946389.00
Training, Placement and Industry linkage	6000000.00	5517732.00	9200000.00	9041809.00	5000000.00	4820897.00	4200000.00	4194012.00
SDGs	500000.00	495627.00	170000.00	167471.00	420000.00	412896.00	230000.00	224377.00
Entrepreneurship	360000.00	358265.00	1000000.00	996986.00	930000.00	925537.00	2200000.00	2129530.00
Others, specify	177910000	174323811	190300000	185251428	191970000	182044553	204050000	197371341
Total	**570000000.00**	**560375129.00**	**600000000.00**	**574842404.00**	**560000000.00**	**547485324.00**	**550000000.00**	**538081188.00**

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	365000.00	359900.00	570000.00	557700.00	550000.00	550950.00	500000.00	477591.00
Software	0	0	0	0	0	0	0	0
SDGs	0	0	0	0	0	0	0	0

Support for faculty development	80000.00	75625.00	160000.00	155041.00	150000.00	137475.00	125000.00	121453.00
R & D	725000.00	721616.00	450000.00	444333.00	200000.00	186942.00	400000.00	386347.00
Industrial Training, Industry expert, Internship	330000.00	324572.00	420000.00	415534.00	225000.00	219132.00	200000.00	192421.00
Miscellaneous Expenses*	175000.00	171662.00	550000.00	544372.00	225000.00	220338.00	620000.00	612550.00
Total	**1675000.00**	**1653375.00**	**2150000.00**	**2116980.00**	**1350000.00**	**1314837.00**	**1845000.00**	**1790362.00**