

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechanical Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 1
Application No: 11866	Date of Submission: 04-06-2026

PART A- Profile of the Institute

A1.Name of the Institute: LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2002	Location of the Institute: Hyderabad
A2. Institute Address: Sy.No.32,HIMAYATSAGAR,NEAR POLICE ACADEMY JUNCTION,HYDERABAD-500091, ANDHRA PRADESH	
City:Ranga Reddy	State:Telangana
Pin Code:500091	Website:www.lords.ac.in
Email:principal.lords@gmail.com	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Osmania University Hyderabad	City: Ranga Reddy
State : Telangana	Pin Code: 500091
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: **9**
- No. of PG programs: **3**

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	Artificial Intelligence and Machine Learning	2021	--	Artificial Intelligence and Machine Learning
2	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science	2023	2024	Information Technology
4	Engineering & Technology	UG	Computer Science and Engineering	2003	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2009	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
7	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	--	Computer Science and Engineering (Data Science)
8	Engineering & Technology	PG	Construction Management	2014	--	Civil Engineering

9	Engineering & Technology	UG	Electronics & Communication Engineering	2003	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Information Technology	2018	--	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	2005	--	Mechanical Engineering
12	Engineering & Technology	PG	Structural Engineering	2012	--	Civil Engineering

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
Civil Engineering	No	Civil Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG

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

No Record

PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	2005 / --	60	Yes	2023	30	2023	South-Central/1-38693125199/2023/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	3	4

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	30
2022-23	60
2021-22	120
2020-21	180

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. Syed Azam pasha Quadri
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	30	60	120	180	240
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	30	28	19	41	75	93	133
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	2	7	12	15	35	34
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	30	30	26	53	90	128	167

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	30	30	0	100.00
2024-25 (CAYm1)	30	28	0	93.33
2023-24 (CAYm2)	30	19	0	63.33

Average [(ER1 + ER2 + ER3) / 3] = 85.55= 17.00

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	132.00	198.00	264.00
B=No. of students who graduated from the program in the stipulated course duration	48.00	53.00	58.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 56.06

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	8.12	8.41	8.23

Y=Total no. of successful students	27.00	11.00	40.00
Z=Total no. of students appeared in the examination	27.00	11.00	40.00
API [X*(Y/Z)]	7.83	4.87	8.03

Average API[(AP1+AP2+AP3)/3] : 6.91

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	8.82	8.35	8.47
Y=Total no. of successful students	18.00	42.00	88.00
Z=Total no. of students appeared in the examination	11.00	40.00	75.00
API [X * (Y/Z)]	14.43	8.77	9.94

Average API [(AP1 + AP2 + AP3)/3] : 11.05

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	8.54	8.45	8.62
Y=Total no. of successful students	38.00	78.00	118.00
Z=Total no. of students appeared in the examination	42.00	88.00	127.00

Average API [(AP1 + AP2 + AP3)/3] : 7.74

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	132.00	198.00	264.00
X=No. of students placed	40.00	45.00	49.00
Y=No. of students admitted to higher studies	6.00	5.00	5.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	34.85	25.25	20.45

Average Placement Index = (P_1 + P_2 + P_3)/3: 26.85 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. Mohammad Anwarullah	XXXXXXX12Q	Ph.D	JNTUH	Mechanical Engineering	17/08/2020	5.8	Professor	Professor	17/08/2020	Regular	Yes		No
2	Dr. Syed Azam pasha Quadri	XXXXXXX30A	Ph.D	NIT Warangal	Thermal Engineering	21/08/2006	19.8	Assistant Professor	Professor	27/01/2018	Regular	Yes		Yes
3	Dr. Sumeet Hangargi	XXXXXXX73L	Ph.D	SSSUTMS, Sehore	Production Engineering	27/08/2018	7.8	Assistant Professor	Associate Professor	17/09/2021	Regular	Yes		No
4	Mr. Mohammad Abbas Khan	XXXXXXX21C	M.E.	Osmania University	CAD/CAM	22/02/2016	10.2	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. Doddaningappa Pachchinarav	XXXXXXX30L	M.Tech	VTU	Product Design And Manufacturing	19/09/2016	9.8	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Dr. Mohammed Asif Kattimani	XXXXXXX62K	Ph.D	Visvesvaraya Technological University	Design Engineering	14/05/2016	10	Assistant Professor	Associate Professor	23/11/2023	Regular	Yes		No
7	Dr. Md Misbahuddin	XXXXXXX53H	Ph.D	Dr. A.P.J. Abdul Kalam University, Indore(M.P.)	Machine Design	18/10/2017	8.6	Assistant Professor	Associate Professor	08/04/2024	Regular	Yes		No
8	Mr. Samatham Madhukar	XXXXXXX33B	M.E.	Osmania University	Design for Manufacturing	07/12/2020	5.5	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. Suman Ramavath	XXXXXXX91D	M.Tech	JNTUH	CAD/CAM	02/11/2015	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr. Shaik Mohammed Hussain	XXXXXXX24H	M.E.	Osmania University	CAD/CAM	01/09/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. Sai Suman Dharamkar	XXXXXXX18M	M.E.	Osmania University	Tool Design	12/08/2020	5.9	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Dr. Nawazish Mehdi Syed	XXXXXXX10D	Ph.D	Osmania University	Mechanical Engineering	28/06/2019	5.4	Professor	Professor	28/06/2019	Regular	No	30/10/2024	No
13	Mr. Ajay Kumar Gyara	XXXXXXX69B	M.E.	Osmania University	Design For Manufacturing	09/07/2019	5.2	Assistant Professor	Assistant Professor		Regular	No	30/09/2024	No
14	Mr. Suresh Kumar Kamaladi	XXXXXXX34D	M.Tech	JNTUH	Thermal Engineering	17/08/2020	3.11	Assistant Professor	Assistant Professor		Regular	No	27/07/2024	No
15	Mr. Banavath Venkatesh	XXXXXXX94N	M.Tech	JNTUH	CAD/CAM	02/05/2019	5.3	Assistant Professor	Assistant Professor		Regular	No	24/08/2024	No
16	Mr. Yelgani Shiva Prasad Goud	XXXXXXX04F	M.Tech	JNTUH	Machine Design	17/08/2020	3.11	Assistant Professor	Assistant Professor		Regular	No	31/07/2024	No

17	Mr. Mohd Rasheed	XXXXXXXX80K	M.Tech	JNTUH	HVAC	07/08/2023	1	Assistant Professor	Assistant Professor		Regular	No	12/08/2024	No
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Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	32	33	66
UG1.C	33	66	132
UG1.D	66	132	198
UG1: Mechanical Engineering	131	231	396
DS=Total no. of students in all UG and PG programs in the Department	131	231	396
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= 131	S2= 231	S3= 396
DF=Total no. of faculty members in the Department	11	11	17
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= 11	F2= 11	F3= 17
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= 11.91	SFR2= 21.00	SFR3= 23.29
Average SFR for 3 years	SFR= 18.73		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF]
2025-26(CAY)	5	6	6.00	30.83
2024-25(CAYm1)	5	6	11.00	16.82
2023-24(CAYm2)	4	13	19.00	12.11

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
2025-26	1.00	2.00	1.00	3.00	4.00	6.00
2024-25	1.00	2.00	3.00	3.00	8.00	6.00
2023-24	2.00	3.00	4.00	1.00	13.00	13.00
Average	RF1=1.33	AF1=2.33	RF2=2.67	AF2=2.33	RF2=8.33	AF2=8.33

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. TabishWahidi	Senior Application Engineer	Xitadel CAE	Mechanics of Fluids and Hydraulic Machinery	14.00
2	Dr. TabishWahidi	Senior Application Engineer	Xitadel CAE	Finite Element Techniques	14.00
3	Mr. U Rajkumar	Managing Director	Mekuva Technologies Pvt.Ltd	CAD/CAM/CAE	14.00
4	Mr. U Rajkumar	Managing Director	Mekuva Technologies Pvt.Ltd	Product Development and Process Planning	14.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. D Jagath Prakash	Design Engineer	Mekuva Technologies Pvt.Ltd	3D Printing Technology	14.00
2	Mr. D Jagath Prakash	Design Engineer	Mekuva Technologies Pvt.Ltd	Manufacturing Processes	14.00
3	Mr. N.V.S Ramachandra Rao	Manager (CNC & Heavy Parts)	HMT (Praga Division), Hyderabad	CAD/CAM/CAE	14.00
4	Mr. N.V.S Ramachandra Rao	Manager (CNC & Heavy Parts)	HMT (Praga Division), Hyderabad	Metallurgy and Material Science	14.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. TabishWahidi	Senior Application Engineer	Xitadel CAE	Finite Element Analysis	24.00
2	Mr. N.V.S Ramachandra Rao	Manager (CNC & Heavy Parts)	HMT (Praga Division), Hyderabad	Machine Tools	24.00
3	CH.Bhumesh	Tech Lead	L&T Technology	Engineering Mechanics	24.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	8	2	2
2	No. of peer reviewed conference papers published	5	1	1
3	No. of books/book chapters published	5	2	3

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. Mohammed Asif K	-	Mechanical Engineering	Study on the Thermal Management of Electric Vehicle Battery Pack with Different Cooling Methods	Professional Educational Services	12 Months	1.40
Dr. MD Misbahuddin	Dr. Sumeet H	Mechanical Engineering	Design and Fabrication of Laser Welded Corrugated Core Sandwich Panel for Single & Multiple Unit Cell	Vaaleric Enterprises Pvt.Ltd	10 Months	1.60
Dr. Mohammed Asif K	Mr. Khalid	Mechanical Engineering	Design and Analysis of a High Efficiency Heat Exchanger for Industrial Applications	NMS Techno Consulting Engineers (NMSTCE) Pvt.Ltd	10 Months	1.80
Dr. Sumeeth H		Mechanical Engineering	Design and Analysis of Aerospace Bracket	NMS Techno Consulting Engineers (NMSTCE) Pvt.Ltd	10 Months	1.60
						Amount received (Rs.):6.40

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr. R Suman	Mr. Raghavendra	Mechanical Engineering	Fabrication of upper Body and Surveillance Arrangement of Dual Mode Invigilation Robot	NMS Techno Consulting Engineers (NMSTCE) Pvt.Ltd	12 Months	2.40
Mr. D H Pachchinavar	Dr. Syed Azam Pash Quadri	Mechanical Engineering	Design and Fabrication of Modified Air Condition System	Professional Educational Services	10 Months	1.80
Dr. MD Misbahuddin	Dr. Sumeet H	Mechanical Engineering	Deisgn and Fabrication of Steering Mechanism for Solar Equiped Electric Buggy	Mayinkrish Ventures Pvt. Ltd	12 Months	1.60
Mr. Prashant	-	Mechanical Engineering	Design and Fabrication of Brake Liner Test Rig	Vaaleric Enterprises Pvt.Ltd	12 Months	1.40
						Amount received (Rs.):7.20

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Syed Azam Pasha Quadri	Mr. MadhukarSamatham	Mechanical Engineering	Design and Fabrication of Filament Storage Dryer	Professional Educational Services	12 Months	1.15
Mr. Ramavath Suman	Dr. Syed Azam Pasha Quadri	Mechanical Engineering	Design and Fabrication of Dosa Making Machine	NMS Techno Consulting Engineers (NMSTCE) Pvt.Ltd	12 Months	1.60
						Amount received (Rs.):2.75

Total Amount (Lacs) Received for the Past 3 Years: 16.35

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. Syed Azam Pasha Quadri	Mr. Madhukar S	Mechanical Engineering	Experimental Investigation of Process Parameter Effects on High-Cycle Fatigue of FDM 3D-Printed polyethylene terephthalate glycol (PETG)	Mekuva Technologies Pvt.Ltd	12 Months	2.20
Dr. Mohammed Asif Kattimani	-	Mechanical Engineering	Safety Audit	Lasa Supergenerics(HARA)	6 Months	0.80
Dr. Mohammed Asif Kattimani	-	Mechanical Engineering	Safety Audit	Services to GICE, Vizag	2 Months	0.15
Mr. Sai Suman	Mr. Shaik Mohammed Hussain	Mechanical Engineering	Characterization of Mechanical Properties of Plastic Mould with Composites	Professional Educational Services, Hyderabad.	6 Months	2.40
Mr. D H Pachchinavar	Mr. Raghavendra	Mechanical Engineering	Mechanical Characterization of Corrugated Sandwich Panel Integrated with Smart Materials	Yucan Technologies	6 Months	0.90
						Amount received (Rs.):6.45

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr. Madhukar Samatham	Dr. Syed Azam pasha Quadri	Mechanical Engineering	Study on Effect of Infill Patterns and Infill Density on Mechnaical Behaviour and Monostructure of FDM 3D Printed Parts	Mekuva Technologies Pvt.Ltd	6 Months	1.60
Dr. Mohammed Asif K	Mr. Hussain	Mechanical Engineering	Testing of Solar Evaporative Cooling Systems External Unit	Yucan Technologies	6 Months	1.20
Dr. Mohammed Asif Kattimani	-	Mechanical Engineering	Characterization of Shape Memory Epoxy Polymer Composite by Introducing Graphine Oxide (GO) into the Matrix	Professional Educational Services, Hyderabad.	6 Months	1.80
Dr. MD Misbahuddin	Dr. Sumeet H	Mechanical Engineering	Safety Audit	Asian Paints	6 Months	2.50
Dr. Mohammed Asif Kattimani	-	Mechanical Engineering	Reactor Safety, Structural Stability, Fire Fighting Adequacy	Hepta Chemicals	6 Months	1.00
						Amount received (Rs.):8.10

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr. Madhukar	Mr. D H Pachchnavir	Mechanical Engineering	Design and Fabrication of Low-Cost Enclosed Type Fused Deposition Modelling Machine	Mekuva Technologies Pvt.Ltd	6 Months	1.60
Mr. Madhukar Samatham	Dr. Syed Azam pasha Quadri	Mechanical Engineering	Comparative Analysis of Dimensional Accuracy of FDM Printed Skull With Human Dry Skull	Ronica Hospitals Pvt.Ltd	6 Months	0.90
Dr. Mohammed Asif K	Mr. Hussain	Mechanical Engineering	Testing of Tilting Head Industrial Pipe Plate and Angle Handling Vehicle	Yucan Technologies	6 Months	1.20
Mr. Prashant	Mr. Shashikanth	Mechanical Engineering	Design and Fabrication of Dual Mode Solar Panel Array Cleaning Machine	Professional Educational Services, Hyderabad.	12 Months	1.40
						Amount received (Rs.):5.10

Total amount (Lacs) received for the past 3 years: 19.65

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
Dr. Syed Azam Pasha Quadri	Support for Preparation and Submission of AICTE RPS	6 Months	0.50	0.50	Submission of the AICTE RPS Proposal
Mr. Madhukar Samatham	Process Parameter Effects on High Cycle Fatigue of FDM 3D Printed polyethylene terephthalate glycol	3 Months	0.30	0.30	AIP Conference Publication
Mr. Madhukar Samatham	Evaluating Process Parameter Effects on Low-Cycle Fatigue of FDM 3D-Printed PETG Parts Using FEA	3 Months	0.30	0.30	AIP Conference Publication
Mr. Madhukar Samatham	Evolution for enhancing mechanical performance of 3D printed PETG	6 Months	0.70	0.70	Materials Today Communications Publication
			Amount received (Rs.): 1.80		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Syed Azam Pasha Quadri	Preparation and Submission of AICTE IDEA Lab Proposal	6 Months	0.70	0.70	Successfully prepared and submitted the AICTE IDEA Lab funding proposal for consideration.
Mr. Ramavath Suman	A Super Heater Failure Control System	3 Months	0.80	0.80	Patent Granted
Mr. Ramavath Suman	A Power Operated Adjustable Blind Zone (BZ) Indicator System for Motor Vehicles	2 Months	0.60	0.60	Patent Granted
			Amount received (Rs.): 2.10		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Syed Azam Pasha Quadri	Design and Fabrication of Light Utility Vehicle	12 Months	0.80	0.80	Development of Low Cost 3D printer
Mr. Madhukar S	Application of 3D Aided Design of Architecture and Planning	6 Months	0.60	0.60	Integrate structural, architectural, and utility components into coordinated 3D models.
			Amount received (Rs.): 1.40		

Total amount (Lacs) received for the past 3 years : 5.30

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	Engineering Workshop-1	1	Carpentry, fitting, Tin smithy,house wiring, foundry, black smithy	75%	Mr.K.Ravi Prasad	Lab Technician	ITI
2	Thermal Engineering Lab	3	Valve / Port Timing Diagrams.4 - Stroke Diesel Engines, 2- Stroke Petrol engine. 4-Stroke Multi cylinder Petrol Engine. 4-Stroke diesel engine, Variable Compression	50%	Mr. Md.Abdul Khabeer Q	Lab Technician	ITI
3	Machine Tools Lab	3	Lathe, Drilling machine, Milling machine, Shaper, Planing machine, slotting machine, Cylindrical Grinder, surface grinder and tool and cutter grinder	50%	Mr. Md. Waseem	Lab Technician	ITI
4	Dynamics of Machines Lab	3	Torsional Vibration, Porter And Proell Governor Cam And Follower, Simple Pendulum, Compound Pendulum, Torsion Pendulum	50%	Mr.K. Ravi Prasad	Lab Technician	ITI
5	Heat Transfer Lab	3	Composite Slab, lagged pipe. Concentric Sphere, Thermal Conductivity. Pin-fin. Heat Conduction. Forced convection, Free convection, Natural convection, Heat	50%	Mr. Md Waseem	Lab Technician	ITI
6	Metallurgy Lab	3	UTM ,Torsion testing machine, spring testing machine,impact testing machine, hardness tester	50%	Mr. Md.Khalid Ali Farooq	Lab Technician	ITI
7	Mechanics of Solids Lab	3	Impact of jets on Vanes, Pelton Wheel, Francis Turbine. Kaplan Turbine. Single Stage Centrifugal Pump. Multi Stage centrifugal Pump. Reciprocating Pump	50%	Mr.K.Ravi Prasad	Lab Technician	ITI
8	Fluid Mechanics and Hydraulic Machines	3	Impact of jets on Vanes, Pelton Wheel, Francis Turbine. Kaplan Turbine. Single Stage Centrifugal Pump. Multi Stage centrifugal Pump. Reciprocating Pump	50%	Mr. Md Waseem	Lab Technician	ITI
9	CAD/CAM Lab	1	AutoCAD, Pro/e, Ansys, Hyper mesh, Catia, Solid Works, Unigraphics.	80%	Mr.Rahman Shah	Lab Assistant	B.Tech.
10	Engineering Graphics Lab	1	AutoCad	80%	Mr.Rahman Shah	Lab Assistant	B.Tech.
11	Manufacturing Lab	3	Spot welding, Gas welding, Injectionmolding, Blow molding ,Arc molding, Casting,Electrical furnace,Hydraulic press, Pattern making, Construction, Gas welding	50%	Mr. Md. Waseem	Lab Technician	ITI
12	Engineering Workshop-2	1	Carpentry, fitting, Tin smithy,house wiring, foundry, black smithy	75%	Mr. Md.Rayees	Lab Technician	ITI
13	Metrology and Instrumentation Lab	3	Bevel protractor, sine bar, slip gauges,	50%	Mr. Khaja Saber Ali	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
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8	Mechanics of Solids Lab	Basic Safety Measures • General safety rules of conduct in the laboratory are clearly displayed. • Safety instruction boards are displayed at appropriate locations. • First-aid boxes are readily available in the laboratory. • Students are required to wear the prescribed laboratory uniform. • Do's and Don'ts boards are displayed for safety awareness. • Fire hydrants and fire extinguishers are provided at designated points. Lab-Specific Safety Measures • Exhaust outlets are properly extended and connected outside the laboratory to ensure adequate ventilation. • Necessary appropriate safety equipment, components, and accessories are made available for safe laboratory operations. • Equipment is operated only as per the prescribed safety standard procedures and operating guidelines. • Safety briefing is provided to students and staff before the installation and operation of laboratory equipment. • Safety shoes are mandatory.
9	Fluid Mechanics and Hydraulic Machines	Basic Safety Measures • General safety rules of conduct in the laboratory are clearly displayed. • Safety instruction boards are displayed at appropriate locations. • First-aid boxes are readily available in the laboratory. • Students are required to wear the prescribed laboratory uniform. • Do's and Don'ts boards are displayed for safety awareness. • Fire hydrants and fire extinguishers are provided at designated points. Lab-Specific Safety Measures • Exhaust outlets are properly extended and connected outside the laboratory to ensure adequate ventilation. • Necessary appropriate safety equipment, components, and accessories are made available for safe laboratory operations. • Equipment is operated only as per the prescribed safety standard procedures and operating guidelines. • Safety briefing is provided to students and staff before the installation and operation of laboratory equipment. • Safety shoes are mandatory.
10	CAD/CAM Lab	Basic Safety Measures • General safety rules of conduct in the laboratory are clearly displayed. • Safety instruction boards are displayed at appropriate locations. • First-aid boxes are readily available in the laboratory. • Students are required to wear the prescribed laboratory uniform. • Do's and Don'ts boards are displayed for safety awareness. • Fire hydrants and fire extinguishers are provided at designated points. Lab-Specific Safety Measures • Exhaust outlets are properly extended and connected outside the laboratory to ensure adequate ventilation. • Necessary appropriate safety equipment, components, and accessories are made available for safe laboratory operations. • Equipment is operated only as per the prescribed safety standard procedures and operating guidelines. • Safety briefing is provided to students and staff before the installation and operation of laboratory equipment. • Safety shoes are mandatory.
11	Engineering Graphics Lab	Basic Safety Measures • General safety rules of conduct in the laboratory are clearly displayed. • Safety instruction boards are displayed at appropriate locations. • First-aid boxes are readily available in the laboratory. • Students are required to wear the prescribed laboratory uniform. • Do's and Don'ts boards are displayed for safety awareness. • Fire hydrants and fire extinguishers are provided at designated points. Lab-Specific Safety Measures • Exhaust outlets are properly extended and connected outside the laboratory to ensure adequate ventilation. • Necessary appropriate safety equipment, components, and accessories are made available for safe laboratory operations. • Equipment is operated only as per the prescribed safety standard procedures and operating guidelines. • Safety briefing is provided to students and staff before the installation and operation of laboratory equipment. • Safety shoes are mandatory.
12	Manufacturing Lab	Basic Safety Measures • General safety rules of conduct in the laboratory are clearly displayed. • Safety instruction boards are displayed at appropriate locations. • First-aid boxes are readily available in the laboratory. • Students are required to wear the prescribed laboratory uniform. • Do's and Don'ts boards are displayed for safety awareness. • Fire hydrants and fire extinguishers are provided at designated points. Lab-Specific Safety Measures • Exhaust outlets are properly extended and connected outside the laboratory to ensure adequate ventilation. • Necessary appropriate safety equipment, components, and accessories are made available for safe laboratory operations. • Equipment is operated only as per the prescribed safety standard procedures and operating guidelines. • Safety briefing is provided to students and staff before the installation and operation of laboratory equipment. • Safety shoes are mandatory.
13	Metrology and Instrumentation Lab	Basic Safety Measures • General safety rules of conduct in the laboratory are clearly displayed. • Safety instruction boards are displayed at appropriate locations. • First-aid boxes are readily available in the laboratory. • Students are required to wear the prescribed laboratory uniform. • Do's and Don'ts boards are displayed for safety awareness. • Fire hydrants and fire extinguishers are provided at designated points. Lab-Specific Safety Measures • Exhaust outlets are properly extended and connected outside the laboratory to ensure adequate ventilation. • Necessary appropriate safety equipment, components, and accessories are made available for safe laboratory operations. • Equipment is operated only as per the prescribed safety standard procedures and operating guidelines. • Safety briefing is provided to students and staff before the installation and operation of laboratory equipment. • Safety shoes are mandatory.

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.	Project Laboratory
2.	Center of Excellence in Additive Manufacturing Lab
3.	Research Lab

1. Project Laboratory

The departmental laboratories are sufficiently equipped to carry out B.E/B-tech, M. Tech and Ph.D. research projects. Depending on the area of specialization, student(s) are assigned laboratories where they undertake their respective projects with the guidance of their supervisors/laboratory in-charges. Project Laboratory enables UG students to obtain hands-on experience and to realize their project ideas as executable projects which is a part of 8th semester curriculum.

Table 7.3.1 : Project Laboratory

S.No	Facility Available	Utilization
1.	Arc welding machines, Mekuva Fused Deposition Modelling 3D Printer (Single Nozzle), compressors, Drill M/C, Grinding M/C and other fitting tools.	Fabrication of UG Student projects, sponsored projects, Vehicles for Student competitions of SAE- Baja and Go-kart.

Table 7.3.2 : Utilization of Project Laboratory Facilities by Students (AY 2025–26)

S. No.	Student Roll Numbers	Project Title	Facility Utilized (Project Laboratory)
1	160921736011, 160921736006, 160921736042	Design and Development of Centrifugal Air Blower Test Setup	Welding Machine, Cutting Machine, Bench Drilling Machine, Angle Grinder, Hand Tools, Measuring Instruments
2	160921736014, 160921736015, 160921736030	Experimental Investigation of Centrifugal Air Blower	Bench Drilling Machine, Measuring Instruments, Hand Tools, Digital Tachometer, Testing Accessories
3	160921736058, 160921736059, 160921736065	Design & Fabrication of Hubless E-Bike	Welding Machine, Cutting Machine, Bench Drilling Machine, Angle Grinder, Hand Tools, Assembly Tools
4	160921736046, 160921736054, 160921736055	Evaluation of Gas Level Detection in 3D-Printed Gas Cylinder	Soldering Station, Hand Drill, Multimeter, Measuring Instruments, Electronic Testing Tools, Hand Tools
5	160921736053, 160921736064, 160921736068	Design & Fabrication of Epoxy Coating Machine	Welding Machine, Cutting Machine, Bench Drilling Machine, Angle Grinder, Hand Tools, Measuring Instruments
6	160921736070, 160921736073, 160921736074	Design and Fabrication of Football Launching Machine	Welding Machine, Cutting Machine, Bench Drilling Machine, Angle Grinder, Hand Tools, Measuring Instruments

2. Center of Excellence in Additive Manufacturing Lab

Name: Center of Excellence in Additive Manufacturing (CEAM) Lab

Website: <https://www.lords.ac.in/mechanical-engineering/center-of-excellence/>

About the Centre:

‘Center Of Excellence in Additive Manufacturing (CEAM) Lab’ is established in collaboration with Industry Mekuva Technologies Pvt. Ltd, Hyderabad on 22-Feb-2022, which aims to bring industries, R & D establishments and academia together to solve manufacturing problems through additive manufacturing technology. The strong team of national and international qualified professionals and researchers are associated with ‘Center of Excellence in Additive Manufacturing (CEAM) Lab to provide research & development solutions, industry interaction through projects and consultations, short training courses, workshops, conferences and seminars. The center will bridge the gap between basic research, product design & development and provide cutting-edge solutions through access to additive manufacturing systems. The main objective of the center is to create an ecosystem to educate industry, research & development and academics in additive manufacturing technology. The center also promotes for collaborative projects from around the world in cutting-edge additive manufacturing technology.

Center Goals:

The goals of CEAM Lab will be to:

- Develop the next generation of advanced materials and manufacturing innovations in AM through fundamental and applied R&D efforts.
- Collaborate with local, national, and international companies to enable such innovations through research projects.
- Educate the next generation of researchers, scientists, and engineers who will assure the next technological innovations are developed and manufactured in India.

Table 7.3.3 : Summary of Major Projects and Journal Publications undertaken in Center of Excellence in Additive Manufacturing

S. No.	Academic Year	Number of Major Projects Undertaken	Number of Journal Publications	Number of Patent Publications
1.	2024-25	3	1	1
2.	2023-24	3	-	-
3.	2022-23	4	1	-

3. Research Lab (Advance IC Engines lab)

Single cylinder, Four stroke, VCR, Multi-fuel with Open ECU for Petrol mode 08-02-2013 PSP240 Description The setup consists of single cylinder, four stroke, VCR (Variable Compression Ratio) Research engine connected to eddy current dynamometer. It is provided with necessary instruments for combustion pressure, crank-angle, airflow, fuel flow, temperatures and load measurements. These signals are interfaced to computer through high speed data acquisition device. The set up has standalone panel box consisting of air box, twin fuel tank, manometer, fuel measuring unit, transmitters for air and fuel flow measurements, process indicator and piezo powering unit. Rotometer are provided for cooling water and calorimeter water flow measurement. In petrol mode engine works with programmable Open ECU, Throttle position sensor (TPS), fuel pump, ignition coil, fuel spray nozzle, trigger sensor etc. The setup enables study of VCR engine performance for both Diesel and Petrol mode and study of ECU programming. Engine performance study includes brake power, indicated power, frictional power, BMEP, IMEP, brake thermal efficiency, indicated thermal efficiency, Mechanical efficiency, volumetric efficiency, specific fuel consumption, Air fuel ratio, heat balance and combustion analysis.

Table 7.3.4. : Advance IC Engines Lab Specifications

Specifications	Research Engine test setup 1 cylinder, 4 stroke, Multifuel, VCR, Code 240
Engine	Single cylinder, 4 stroke, water cooled, stroke 110 mm, bore 87.5 mm, 661 cc. Diesel mode: 3.5 KW, 1500 rpm, CR range 12-18. Injection variation:0- 250 BTDC Petrol mode: 4.5 KW@ 1800 rpm, Speed range 1200-1800 rpm, CR range 6-10,
Dynamometer	Type eddy current, water cooled, with loading unit
Propeller shaft	With universal joints
Air box	M S fabricated with orifice meter and manometer
Fuel tank	Capacity 15 lit, Type: Duel compartment, with fuel metering pipe of glass
Calorimeter	Type Pipe in pipe
ECU	PE3 Series ECU, Model PE3-8400P, full build, potted enclosure. Includes Monitor & Viewer software.
Piezo sensor	Combustion: Range 350Bar, Diesel line: Range 350 Bar, with low noise cable
Crank angle sensor	Resolution 1 Deg, Speed 5500 RPM with TDC pulse.
Data acquisition device	NI USB-6210, 16-bit, 250kS/s.
Temperature sensor	Type RTD, PT100 and Thermocouple, Type K

Temperature transmitter	Type two wire, Input RTD PT100, Range 0–100 Deg C, Output 4–20 mA and Type two wire, Input Thermocouple,
Load sensor	Load cell, type strain gauge, range 0-50 Kg
Fuel flow transmitter	DP transmitter, Range 0-500 mm WC
Air flow transmitter	Pressure transmitter, Range (-) 250 mm WC
Software	“Enginesoft” Engine performance analysis software
Rotameter	Engine cooling 40-400 LPH; Calorimeter 25-250 LPH
Pump	Type Monoblock
Overall dimensions	W 2000 x D 2500 x H 1500 mm

PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2023-24(CAYm2)	1200	60	52	18	75
2024-25(CAYm1)	1380	69	54	24	70
2025-26(CAY)	1380	69	55	23	70

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	45000000	35987875	35000000	19380694	38500000	34732695	45000000	43881237
Library	2200000	1213402	2000000	1688694	1850000	1641236	1700000	1651749

Laboratory equipment //	8600000	6775421	19400000	14715034	18000000	15573481	14600000	14350663
Teaching and non-teaching staff salary //	340000000	338695386	320000000	307817300	325000000	308324416	187500000	186550372
Outreach Programs //	2200000	1871287	2000000	1853521	1350000	1045064	100000	84236
R&D //	10000000	9728053	9500000	8854558	9000000	8550097	5500000	5044117
Training, Placement and Industry linkage //	5500000	3629734	6000000	4975380	5800000	3912920	2850000	2713417
SDGs //	400000	165114	350000	285157	250000	205586	70000	58497
Entrepreneurship //	2500000	715492	2200000	712893	600000	462569	280000	269087
Others, specify //	80000000	55937382	75000000	55809421	55500000	52638687	33580000	32113223
Total	496400000	454719146	471450000	416092652	455850000	427086751	291180000	286716598

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment //	130000	120000	200000	160000	100000	88500	1600000	1584738
Software //	0	0	0	0	0	0	200000	193145
SDGs //	10000	3715	20000	11943	20000	15500	8000	6672
Support for faculty development //	120000	74498	70000	62513	90000	88504	100000	92849
R & D //	1500000	1400000	1400000	1307000	900000	802000	850000	771000
Industrial Training, Industry expert, Internship //	150000	127161	280000	240000	300000	206509	220000	216648
Miscellaneous Expenses* //	80000	63964	130000	116128	200000	177498	210000	176246
Total	1990000	1789338	2100000	1897584	1610000	1378511	3188000	3041298