



METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad
Estd : 2008 Address : King Koti Road, Abids, Hyderabad, Telangana, 500001 | Email : principal@methodist.edu.in

ANNUAL REPORT
(Academic Year 2024 - 25)

DEPARTMENT OF MECHANICAL ENGINEERING

VISION OF THE INSTITUTION

To produce ethical, socially conscious and innovative professionals who would contribute to sustainable technological development of the society.

MISSION OF THE INSTITUTION

- To impart quality engineering education with latest technological developments and interdisciplinary skills to make students succeed in professional practice.
- To encourage research culture among faculty and students by establishing state-of-art laboratories and exposing them to modern industrial and organizational practices.
- To inculcate humane qualities like environmental consciousness, leadership, social values, professional ethics and engage in independent and lifelong learning for sustainable contribution to the society.

VISION OF THE DEPARTMENT

To be a reputed centre of excellence in the field of mechanical engineering by synergizing innovative technologies and research for the progress of society.

MISSION OF THE DEPARTMENT

M1: To impart quality education by means of state-of-the-art infrastructure.

M2: To involve in trainings and activities on leadership qualities and social responsibilities.

M3: To inculcate the habit of life-long learning, practice professional ethics and serve the society.

M4: To establish industry- institute interaction for stakeholder development

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- **Departmental Profile**

✓ Academic Programs

Program Name	Degree	Duration	Intake	Specialisation
Mech. Engg.	BE	4 Years	30	-
Mech. Engg.	ME	2 Years	18	CAD/CAM

✓ Admissions Statistics

Academic Year	Program	Sanctioned Intake	Total Admitted Students	Admission Percentage	Male Students	Female Students
2024-25	BE - Mech. Engg	30	30	100	28	2
2024-25	ME- CAD/CA M	18	8	44.44	8	0

✓ Laboratory Equipment (Hardware/ Software) upgrades

Sl.No.	Major Equipment/ Software with specifications	Cost of Equipment/ Software	Quantity	Total cost including GST
1	Automation and Robotics Lab PLC CPU S-200 Smart-SIEMENS	68,400/-	1	83,308/-
2	ROBOTIC kits	82,718/-	10	91,918/-

- Academic Highlights:
 - Faculty and Staff

✓ Faculty Achievements and Awards

Faculty Name	Achievement / Award	Description	Date	Awarding Body/ Institution	Remarks
G. Bhaskar	Ph.D	Awarded Ph.D	04/03/2025	KL University	

✓ Professional Development Activities Organised

- Conferences
- FDPs
- Workshops
- Seminars/ Webinars

Activity Name	Organiser/Resource person/Coordinator	Description	Date	Venue	Target Audience	Remarks
Seminar on career guidance program in the field of design, analysis robots ,tools & fixtures	(Envision Co. Integrated Pvt Ltd) Mr. Kiran Mr. Shubham	Seminar on career guidance program in the field of design, analysis robots ,tools & fixtures	13.9.24	MCET	30	
Engineer's Day celebrations	Dept. Of Mech. Engg, MCET.	Engineer's Day celebrations	21.9.24	MCET	40	
Guest Lecture on Innovation & Intellectual Property Rights	(SR University) Dr. Ramesh Babu Darmala	Guest Lecture on Innovation & Intellectual Property Rights	26.9.24	MCET	70	
Seminar on Nano materials & Technology for sustainable future	Dr. A Krishnaiah Dean Coll. of Engg, OU.	Seminar on Nano materials & Technology for sustainable future	30.9.24	MCET	70	
Seminar on career guidance	(Ace Academy) Mr. Ramesh Babu	Seminar on career guidance	18.11.24	MCET	36	
2 day workshop on Model United Nations	Dept of Mech. Engg, MCET. 1. Mr. Mohd Adnan Farooqui 2.Mr. Zeeshan Faiz 3. Mr. Rutwik Sharma	2 day workshop on Model United Nations	26.11.24 & 27.11.24	MCET	100	

2 day workshop on PLC	Pragnyathmik a Amit Rao Perka	2 day workshop on PLC	29.11.24 & 30.11.24	MCET	70	
Webinar on Technical talk on smart cities with global digital technology applications for disaster management	ISB/I MechE Prof. Vinesh Thiruchelvam	Webinar on Technical talk on smart cities with global digital technology applications for disaster management	20.12.24	MCET	40	
Webinar on Internal combustion engines: Two survival suggestions for manufactures.	I MechE Mr. Jean Piarre Pirault	Webinar on Internal combustion engines: Two survival suggestions for manufactures.	13.02.25	MCET	40	
One day Workshop on Cyber Security	Dept. Of Mech. Engg, MCET. Prof. Md. Fakhruddin H.N	One day Workshop on Cyber Security	18.02.25	MCET	50	
Webinar on reducing scope 3 emissions through product environmental engineering.	I MechE Mr. Christain Simons	Webinar on reducing scope 3 emissions through product environmental engineering.	20.02.25	MCET	50	
Industry Institute Interaction	Dept. Of Mech. Engg, MCET. Mr. Joshua D Vundavalli Mr. Dheeraj Mudunuri	Industry Institute Interaction	27.02.25	MCET	50	

Webinar on Electric Vehicle transmission lubrication	I MechE 1.Ms. Kate Tomilson Tribology University of Sheffield. 2. Mr. Alexander Mac Laren PCS Instruments R&D Engineer.	Webinar on Electric Vehicle transmission lubrication	28.02.25	MCET	50	
Seminar on How to successfully engineer systems those are becoming increasingly complex.	Mahindra University Dr. Devanandham Henry Assistant Professor	Seminar on How to successfully engineer systems those are becoming increasingly complex.	06.03.25	MCET	60	

✓ Professional Development Activities (Registered/ Attended / Passed)

- Conferences
- Self-Study Courses (SWAYAM/ NPTEL/ COURSERA ETC)
- FDPs
- Workshops
- Seminars/ Webinars
- Orientation Courses
- Refresher Courses
- Certification Courses

Faculty Name	Activity Name	Organiser	Description	Date	Venue	Remarks
Dr.Md.Fakhrud in Hsan Nizami	Industrial Expo	HIMTEX-Hyderabad International Machine Tool & Engineering Expo	HIMTEX-Hyderabad International Machine Tool & Engineering Expo	16.8.24	HIMTEX-Hyderabad	

Dr. P Ravi Chander	Offline FDP	CMR Engineering College Hyderabad	Industry 5.0 - Revolutionizing Industries with Digital Manufacturing	19.8.24 to 24.8.24	CMR Engineering College Hyderabad	
Y Madhu Maheswara Reddy	Offline FDP	CMR Engineering College Hyderabad	Industry 5.0 - Revolutionizing Industries with Digital Manufacturing	19.8.24 to 24.8.24	CMR Engineering College Hyderabad	
Y Madhu Maheswara Reddy	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Dr.Md.Fakhruddin Hassan Nizami	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Dr. P Prabhuraj	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Dr. P Ravi Chander	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	

Dr. M Prasad	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Dr. A Rajasekhar	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Md Abdul Fazal	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
I Sowjanya	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Shazia Anwar	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	

G. Bhasker	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Dr. M Udaya Kumar	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
R. Prerna	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
P. Gayatri Lahari	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Guru Vishnu	Seminar	MCET	Discover, Unlock and Activate : Empowering employees for peak performance	28.8.24 to 29.8.24	MCET	
Y Madhu Maheswara Reddy	Offline FDP	Methodist college of Engg & Tech	Sustainable Water And Waste Management	23.9.24 to 28.9.24.	MCET	

Dr. P Ravi Chander	Offline FDP	Maturi Venkata Subba Rao Engineering College	Simulation Techniques in Engineering	23.9.24 to 28.9.24.	MVSR	
Y Madhu Maheswara Reddy	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Dr.Md.Fakhrudd in Hassan Nizami	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Dr. P Prabhuraj	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Dr. P Ravi Chander	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Dr. M Prasad	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Dr. A Rajasekhar	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Md Abdul Fazal	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
I Sowjanya	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Shazia Anwar	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
G Bhasker	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Dr M Udaya Kumar	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
R Prerna	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	

P.Gayatri Lahari	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
Guru Vishnu	Seminar	MCET	NBA Tier 1 Accreditation	26.10.24	MCET	
G. Bhaskar	Webinar	Sciflow	How to simply writing, citing and publishing a research article or Master/Ph.D thesis with sciflow templates	26.10.2024	online	
Dr.Md.Fakhrudd in Hassan Nizami	Webinar	HP Foundation	Introduction to Cyber security Awareness, HP LIFE	23.12.24	online	
Dr.Md.Fakhrudd in Hassan Nizami	Webinar	HP Foundation	Data Science & Analytics, HP LIFE	08.01.25	online	
Dr.Md.Fakhrudd in Hassan Nizami	Webinar	Microsoft	Develop Azure Functions, Microsoft	09.01.25	online	
Ms. Shazia Anwar	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	

Mrs. I Sowjanya	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	
G. Bhaskar	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	
Y Madhu Maheswara Reddy	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	
Md. Abdul Fazal	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	
Dr. P.Ravi Chander	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	

Shaik Shoeb	Online FDP	MCET	AI & ML Applications to renewable energy systems & electric vehicles	20.1.25 to 24.1.25	MCET	
Y Madhu Maheswara Reddy	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr.Md.Fakhrudd in Hassan Nizami	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr. P Prabhuraj	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr. P Ravi Chander	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr. M Prasad	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr. A Rajasekhar	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Md Abdul Fazal	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	

I Sowjanya	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Shazia Anwar	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
G Bhasker	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr M Udaya Kumar	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
R Prerna	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
P.Gayatri Lahari	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Guru Vishnu	Seminar	MCET	Preparation of Institutional development Plan	21.01.25	MCET	
Dr. M. Udaya Kumar	Online FDP	Maturi Venkata Subba Rao Engineering College	Unmanned Air Vehicles and Drone Technology	27.1.25 to 1.2.25	MVSR	

Ms. Shazia Anwar	Online FDP	Maturi Venkata Subba Rao Engineering College	Unmanned Air Vehicles and Drone Technology	27.1.25 to 1.2.25	MVSR	
Dr. Prasad Matam	Online FDP	Maturi Venkata Subba Rao Engineering College	Unmanned Air Vehicles and Drone Technology	27.1.25 to 1.2.25	MVSR	
G. Bhaskar	Online FDP	Maturi Venkata Subba Rao Engineering College	Unmanned Air Vehicles and Drone Technology	27.1.25 to 1.2.25	MVSR	
Md. Abdul Fazal	Online FDP	Maturi Venkata Subba Rao Engineering College	Unmanned Air Vehicles and Drone Technology	27.1.25 to 1.2.25	MVSR	
Y Madhu Maheswara Reddy	Nptel-FDP	NPTEL-SWAYAM	Patent Drafting for Beginners	January to February 2025	Online	
Dr. M Prasad	Nptel-FDP	NPTEL-SWAYAM	Patent Drafting for Beginners	January to February 2025	Online	
Dr. Prasad Matam	Online FDP	SSM Institute Of Engineering and Technology	Resilient Infrastructure For Cyclone Prone Areas	3.2.25 to 8.2.25.	Online	
Dr. Prasad Matam	Online FDP	Indira Gandhi Institute of Technology Sarang	Sustainable Manufacturing and Advanced automation in Industries	24.02.25 to 01.03.25	Online	

G. Bhaskar	Online FDP	Indira Gandhi Institute of Technology Sarang	Sustainable Manufacturing and Advanced automation in Industries	24.02.25 to 01.03.25	Online	
Y Madhu Maheswara Reddy	Workshop	Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions	6.3.2025	MCET	
Dr. M Prasad	Workshop	Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions	6.3.2025	MCET	
Shazia Anwar	Workshop	Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions	6.3.2025	MCET	

I Sowjanya	Workshop	Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions	6.3.2025	MCET	
Shazia Anwar	Webinar	Sky Skill Academy	Crash Test Your Car Design using Ansys	19.3.2025	Online	
Dr. M Prasad	Online FDP	Lords Institute of Engineering & Technology	Sustainability Innovation Trends in Civil Engineering	10.3.2025 to 15.3.2025	Online	
G. Bhaskar	Online FDP	Lords Institute of Engineering & Technology	Sustainability Innovation Trends in Civil Engineering	10.3.2025 to 15.3.2025	Online	
Y Madhu Maheswara Reddy	International Conference	Amritha School of Engg, Chennai	2 nd International conference on Advanced materials, manufacturing & automation – AMMA 2025	2.4.2025to 3.4.2025	Online	

Shazia Anwar	Nptel-FDP	NPTEL-SWAYAM	Advances in Additive manufacturing of materials : Current status & emerging opportunities	January to April 2025	Online	
Shaik Shoeb	Nptel-FDP	NPTEL-SWAYAM	Advances in Additive manufacturing of materials : Current status & emerging opportunities	January to April 2025	Online	
Shazia Anwar	Webinar	Answer This by LinkdeIn	Certificate of Competence	17-05-2025	Online	
Shazia Anwar	Webinar	Sky Skill Academy	3D Modelling in Catia	17-05-2025	Online	
Md Abdul Fazal	Workshop	Engg. Staff College of India, Hyerabad	Computer Numerical Control (CNC) Machining and Machine Tools - Programming and Selection of Lubricants	19- 22 May 2025		

NPTEL/SWAYAM - Courses by Faculty

S. No.	Name of Faculty	Name of Course	Date of Exam	Duration	Equivalent FDP Days	Status
1	Dr. Md Fakhruddin Hassan Nizami	Cyber security & privacy	October 2024	12 weeks	Yes	Completed
2	Dr. Md Fakhruddin Hassan Nizami	Introduction to machine learning	October 2024	12 weeks	Yes	Completed
3	Dr. P. Prabhuraj	Navigating the Latest Trends in Additive Manufacturing Landscape	April 2025	4 weeks	Yes	Completed
4	Dr.P.Ravi Chander	Engineering/Architectural Graphics - Part II - Isometric and Axonometric Drawings	March 22 2025	4 weeks	No	Completed
5	Dr. M Udaya Kumar	Introduction to fluid mechanics	April 2025	12 weeks	Yes	Completed
6	Mr. Y.Madhu M, Reddy	Patent Drafting for Beginners	March 23 2025	4 weeks	Yes	Completed
7	Mr. Y.Madhu M, Reddy	Engineering/Architectural Graphics - Part II - Isometric and Axonometric Drawings	March 22 2025	4 weeks	No	Completed
8	Mrs. I. Sowjanya	Advances in Additive manufacturing of materials : Current status & emerging opportunities	May 2025	12 weeks	Yes	Completed

9	Mrs. Shazia Anwar	Advances in Additive manufacturing of materials : Current status & emerging opportunities	May 2025	12 weeks	Yes	Completed
10	Mr. Abdul Fazal	Advances in Additive manufacturing of materials : Current status & emerging opportunities	May 2025	12 weeks	Yes	Completed
11	Mr. G. Bhaskar	Engineering/Architectural Graphics - Part II - Isometric and Axonometric Drawings	April 2025	4 weeks	No	Completed
12	Dr. M Prasad	Patent Drafting for Beginners	23 March 2025	4 weeks	No	Completed
13	Dr. M Prasad	Experimental Robotics	27 April 2025	4 weeks	No	Completed
14	Shaik Shoeb	Advances in Additive manufacturing of materials : Current status & emerging opportunities	May 2025	12 weeks	Yes	Completed

✓ Professional Memberships

S. No.	Name of Faculty	Name of Professional Society	Membership Number	Date of becoming member	Duration
1	Dr. A. Rajasekhar	ISTE	LM 42235	2004	Life member
		IWS	L-00270		Life member
		IIW	R- 11332 / L	21-12-2013	Life member
2	Dr. Prabhuraj	ISTE	L49669	Aug 2006	Life member

		IWS	L00134	March2004	Life member
3	Dr. Ravi Chander	ISTE	LM 52697	18 May 2007	Life member
		IAENG	102482	17 September 2016	Life member
		Combustion Institute	LMC-1051	8 December 2020	Life member
4.	Dr Fakhrudd in H.N	ISTE	LM138222	September2023	Life member
5	Dr M.Prasad	IEOM	1443876	07-07-2023	One year
		ISTE	LM105681	June2015	Life member
		IWS	101900	August 2019	Life member
		IAENG	206060	02-02-2018	Life member
6.	Dr M.Udaya Kumar	ISTE	LM68954	2010	Life member
		IAENG	256128	23-09-2020	Life member
7	Y Madhu Maheswara Reddy	ISTE	LM138221	September2023	Life member
		IWS	L01903	August 2019	Life member
		IAENG	213502	Apr 2018	Life member
8.	I.Sowjanya	ISTE	LM138223	September 2023	Life member
9	M. Guru Vishnu	IWS	L01904	Aug, 2019	Life member

10	G.Bhaskar	ISTE	L95555	2014	Life member
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✓ Ph.D. Guided / Guiding

Ph.D. Student Name	Thesis Title	Year of Enrolment	Year of Completion	Current Status	Co-Supervisor(s)	Publications
Pogaku. Vamshi Krishna	Experimental studies during nano powder mixed electrical discharge medium	2018	–	Pursuing	Dr. A. Rajasekhar	–
K. Shyam Kumar	Characterization and effect of different materials by using Friction stir welding	2018	–	Pursuing	Dr. A. Rajasekhar	–
Mohd. Abdul Fazal	Dynamic loading and characterization for finding the performance of indexing fixture design jig at different RPM'S using Integrated	2018	–	Pursuing	Dr. A. Rajasekhar	2

V.Jaipal Reddy	Experimental Investigation and weld ability and optimization of process parameters of polymers for friction stir welding	2018	–	Pursuing	Dr. A. Rajasekhar	2
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- **Students**

- ✓ Academic Achievements (Gold Medals/ Ranks/ Toppers)

Roll No.	Semester	Student Name	Achievement	Description	Date
Nil					

- ✓ Student Academic Performance

Academic Year	Semester	Total Strength	No. of Students passed	Pass percentage
2024-25	I	30	3	10%
	II	29	4	13.7%
	III	30	18	62.07%
	IV	30	15	51.72%
	V	18	10	55.56%
	VI	18	12	66.67%
	VII	18	13	72.22%
	VIII	18	17	94.44%

✓ Sports Activities Participated Awards and Honors Won

Roll. No.	Semester	Student Name	Activity	Description	Date	Venue	Remarks Participated/ Won)
160723736306	IV	Jayadeep	Volley Ball - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160723736002	IV	Muntazar imam	Badminton - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160723736006	IV	Obadah bin othman basaham	Badminton - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160723736002	IV	Muntazar imam	Badminton - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160724736005	IV	Jedidah Carmel	Throw Ball - Girls		16/04/25 TO 18/04/25	MCE T	Participated
160724736003	IV	Abdullah Qanith	Volley Ball - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160721736004	VII I	huzaifahmed628@gmail.com	Chess - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160721736008	VII I	z.shareef2019@gmail.com	Badminton - Boys		16/04/25 TO 18/04/25	MCE T	Participated
160721736004	VII I	huzaifahmed628@gmail.com	CHESS - BOYS		16/04/25 TO 18/04/25	MCE T	Participated

Roll. No.	Semester	Student Name	Award	Description	Date	Awarding Body	Remarks
160723736006	3	Obadah Bin Osman	Certificate & Gold Medal	Khan Mujeeb Khan Indian Style Wrestling Competition 2024	25.08.24		
160721736004	7	Mohammed Huzaifa Ahmed	Certificate & Medal	WPS Telangana District Championship 2024	08.09.24		
160723736306	3	S.Jayadeep	Certificate	Stanfest 2k24	28.09.24		
160722736002	5	Chaya Mishra	Certificate	Aha Super Star	22.10.24		
160721736304	7	Johanus Kepler	Certificate	Vigyan Vaibahv Kalam's Institute of Youth excellence	02.03.25		
160721736002	7	Drakshi Mishra	Silver Medal	Run for Action – International Women's Day	08.03.25		
160722736002	5	Chaya Mishra	Silver Medal	Run for Action – International Women's Day	08.03.25		

✓ Student club and organization achievements

Club/Organisation	Achievement	Description	Date	Remarks

✓ Cultural Activities

Event Name	Description	Date	Venue	Remarks
Independence Day	Celebrate our nation's freedom with pride and patriotism	15-8-2024	Methodist College of En and Tech	
Janmashtami Celebrations	celebrate Lord Krishna's birthday with songs and dances	24-08-2024	Methodist College of En and Tech	
Teachers day	A special day to thank and honor our teachers	5-9-2024	Methodist College of En and Tech	
Engineers Day celebrations	celebrate the creativity and hard work of engineers	15-9-2024	Methodist College of En and Tech	
Freshers day	A fun welcome party for all new students	5-10-2024	Methodist College of En and Tech Methodist College of En and Tech	
Annual day Celebrations	A grand event showing the year's achievements and talent	10-02-2025	Methodist College of En and Tech	
International Yoga Day	A day to practice yoga and learn about staying health	21-06-2024	Methodist College of En and Tech	

✓ Parent- Teacher Meeting

Meeting Date	Description	Venue	Remarks
13-09-2024	Interaction with parents regarding student progress and attendance in the first semester	Class room 205	Successfully conducted
15-03-2025	Discussion on overall academic performance and attendance in the second semester	Class room 205	Feedback collected from parents

- **Research and Development**

- ✓ Research Projects and Grants

Project Title	Principal Investigator	Funding Agency	Grant Amount	Start Date	End Date	Remarks
NIL	NIL	NIL	NIL	NIL	NIL	NIL

- ✓ Publications in Journals

Title of Paper	Author(s)	Journal Name	Volume	Issue	Page Numbers	Publication Date	Impact Factor	Remarks
Design & flow analysis of air condition duct using CAE tools	Dr. Md Fakhruddin HN, Safa Khader	International Journal of analytical & experimental modal analysis	Vol 16	/Issue 7	297-305	July 2024		
Analysis of connected pipeline loads on nozzles welded to air receiver drum using WRC method	Dr. P Prabhuraj, Shazia Anwar, Abdul Raheem	Journal of emerging technologies & innovative research	Vol 11	Issue 7	589-595	July 2024		
Modelling and Crash Analysis of Car using CAE Tools	Dr. Md Fakhruddin HN, Shaik Abdul Waseem	The International journal of analytical and experimental modal analysis	Vol 16	Issue 7	397-411	July 2024		
Design & analysis of hybrid magnetic bearings for high speed spindle	Dr. P Ravi Chander, Shaik Shoeb, V. Saroja	Journal of emerging technologies & innovative research	Vol 11	Issue 7	802-806	July 2024		
Design And Analysis of Aircraft Wings by Computational Fluid Dynamics	Dr. P Prabhuraj, Shaik Mohammed Abubaker	Journal of emerging technologies & innovative research	Vol 11	Issue 7	555-562	July 2024		

Aerodynamic Stability Of Additively Manufactured Hexacopter Frame	Mohammad Abdul Fazal, Dr.A. Rajasekhar, R. Rajendra	Industrial Engineering Journal	Volume 54	Issue 1	191-204	January:2025		
Numerical Simulations on Hexacopter Drone for I-Section and Hollow Square Arm Cross-Sections for PLA-CF and CFRP Materials	Mohammad Abdul Fazal, Dr.A. Rajasekhar, R. Rajendra	SSRG International Journal of Mechanical Engineering (IJME)	Volume 12	Issue 1	49-58	January 2025		
Assessing Mechanical Properties and Their Impact on Friction Stir Welding of Polypropylene with H13 Tool Steel: A Statistical Approach	Dr.A. Rajasekhar, Jaipal Reddy, A. Krishnaiah	SSRG International Journal of Mechanical Engineering (IJME)	Volume 12	Issue 1	59-67	January 2025		
Machine Learning-Based Ball Throwing Machine: An Intelligent Approach to Precision and Adaptability	Dr. Udaya Kumar Madugula	Journal of Information Systems Engineering and Management 2025	Volume 10		854-862	Feb 2025		

Coupled thermal and static analysis of brake pads and discs under emergency braking	Y Madhu Maheshwar Reddy, Syed Mujahid , Mohammed Afraaz,	Strad Research	Volume 12	Issue 4	157-167	April 2025		
Computational Fluid Dynamics-Based Evaluation of Car Body Design for Enhanced Aerodynamic Performance	Dr Prasad Matam, Jatoth Suman, Mirjapuram Priyaranjan , MadupatiSudharsan	Strad Research	Volume 12	Issue 4	104-111	April 2025		
3d prototyping for the material analysis and modelling of a rocker arm mechanism	Mr. Mohammad Abdul Fazal, Syed Nadeem Ahmed, Mohammad Ayaan, Mohammed Sohail Shareef	International Journal of novel research and development	Volume 10	Issue 4	195-199	April 2025		
Design, Analytical Evaluation, and Structural Simulation of a Single Plate Clutch Using Composite Materials	Dr P.Ravi Chander, Anthigalla Jairaj, Mohd Abdul Basith Ahmed	Strad Research	Volume 12	Issue 4	140-147	April 2025		
Integrated thermal and modal analysis of turbocharger with 3D Printed Prototype	Shazia Anwar , Dr. M. Udaya Kumar, Mohammed Huzaifa Ahmed and OMuteeullah Shariff	World Journal of Advanced Engineering Technology and Sciences	Volume 15	Issue 1	1853-1860	April 2025		

Flow Simulation and Thrust Analysis of Solid Rocket Motor Using CFD	Dr.Md.Fakruddin H.N, A.Varun Sai, Drakshi Mishra, Vinek Kumar Patil.	International Journal for Multidisciplinary Research	Volume 7	Issue 2	1-13	April 2025		
The dissipation properties of additively manufactured lattice frame structure of various size by dynamic and thermal analysis	Dr. Bhaskar Gadipalley, Dr. M. Udaya Kumar	Journal of informetrics	Volume 19	Issue 2	175-182	May 2025		
Structural and Modal Analysis of Drive Axle with Material Optimization for Heavy Loads	Dr. Gadipelly Bhaskar, Dr. M. Udaya Kumar, Kadari Johanaus Kepler, Kaaligi Banashanker, Chitty Kushal Kumar,	International Journal of Engineering Research and Applications	Volume 15	Issue 5	47-54	May 2025		
Cfd And Thermal Analysis Of Gas Turbine Blades Using High temperature Alloys And Ceramic Coatings	Dr. P. Ravi Chander, Dr. Gadipelly Bhaskar, Haseeb Ahmed Taimoori,	Journal of Emerging Technologies and Innovative Research	Volume 12	Issue 6	216-224	June 2025		

✓ Publications in Proceedings of Conferences

Title of Paper	Author(s)	Conference Name	Location	Date	Remarks
Thermo mechanical buckling analysis of Isogrid/Orthogrid structures with diverse materials in aircraft fuselage skins.	Shazia Anwar, Dr Ravi Chander, Shaik Shoeb	International conference on recent trends in engineering & technology.	JNTUH	21-23 December 2024	
A review on cold cracking susceptibility of Stainless Steels	Y Madhu Maheswara Reddy, Dr. A Rajasekhar	Second International conference on Advancements in Materials, manufacturing & Automation	Amrita School of Engg.Chennai	2-3 April 2025	

✓ Collaborations and Partnerships

Project Title	Collaborating Institution	Description	Start Date	End Date	Remarks
NIL	NIL	NIL	NIL	NIL	NIL

✓ Patents, Innovations and Start-ups

Patent/ Innovation/ Start-up	Inventor(s)	Description	Date Filed	Status	Remarks
Gasketed Plate Heat Exchanger	1.Dr M Prasad 2. Dr A Rajasekhar 3. Dr P Ravi Chander 4.Y M M Reddy 5. Madesh Chindam		05.08.24	Granted	
Fused Deposition 3D Printer	1.Shazia Anwar 2. Shaik Shoeb		07.08.24	FER Submitted	
Non- Pneumatic Tweel	1.Dr M Prasad 2. Dr A Rajasekhar 3. Dr P Ravi Chander 4.Y M M Reddy 5. K Tejashwini		13.09.24	FER Submitted	
Hybrid Magnetic Bearing	1.Dr.Ravi Chander 2.Shazia Anwar 3.Dr. Prasad Matam 4.Y. Madhu Maheshwar Reddy 5.Dr. M. Udaya Kumar		27.03.25	FER Submitted	

FDM 3D Printer	1. Y. Madhu Maheshwar Reddy 2.Dr. M. Udaya Kumar 3.Dr. Prasad Matam 4. Dr.Ravi Chander 5.Dr. G. Bhaskar		25.04.25	Granted	Patent Granted, Certificate Not Generated
Aerodynamic Car Body	1.Madupati Sudharshan 2.Jatoth Suman 3.Mirjapuram Priyaranjan 4.Dr. Prasad Matam 5.Dr. A Rajasekhar 63.Dr. G. Bhaskar		02.04.2025	Granted	
Automotive Roker Arm	1.Mohammad Ayaan 2.Mohammed Sohail Shareef 3.Mrs.I Sowjanya 4.Mohd Abdul Fazal 5.Syed Nadeem Ahmed 6.Dr. M Udaya Kumar 7.Dr.Prasad Matam		02.04.2025	FER Submitted	
Ventilated Disc For Automobile	1.Y.M.M. Reddy 2. Syed MujahidAli Shah 3. MohammedAfraaz 4. Dr PrasadMatam 5. Dr. P RaviChander 6. Dr A Rajasekhar		04.04.2025	FER Submitted	

✓ Research collaborations and Industry partnerships

Collaboration	Partner Organisation	Description	Start Date	End Date	Remarks

✓ Internships and Training Programs

Program Name	Description	Duration	Companies Involved	Number of Students
Internship-1	Summer Internship	14 Days	CITD, NSIC, DART FROG	30
Internship-2	Summer Internship	1 Month	DRDL, Krushi Engineers, RIZ cooling solutions, Hyundai, Varun Motors, Rail Nilayam	18

✓ Consultancy

Consultancy Project	Client Organisation	Description	Start Date	End Date	Remarks
NIL	NIL	NIL	NIL	NIL	NIL

• Placements

✓ Placement Statistics including Higher Education

Year	Total Students	Total students placed	Placement Percentage	Major Recruiters
2024-25	18	3	16.66	HCL Savanthis, Deccan AI Automation
2024-25	18	4	22.22	Higher Education

• Alumni updates

○ Alumni Meetings Conducted

Date	Location	Key Discussions	Number of Attendees	Outcomes
13-11-2024	MCET CAD LAB	1. Preparation methods for securing government jobs. 2. Suggestions from alumni for institutional and departmental development	40	
14-03-2024	MCET CAD LAB	Career Path to Law Enforcement.	50	

○ Alumni achievements

Alumni Name	Achievement	Year	Recognition/ Award
G. R. Charan	A.M.V.in R.T.A Department	2024	Achieved Govt job
G. Vigneshwari	Entrepreneur	2022	Started her own firm
S. Ajay Kanth	Cyberabad Commissionerate Department	2023	Achieved Govt job

B. Sai Teja	Reserved Sub Inspector	2024	Achieved Govt job
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○ Renowned Alumni

Alumni Name	Graduation Year	Field Achievements	of Notable Positions	Contribution/
G. R. Charan	2017-2018	Achieved Govt job		A.M.V.in R.T.A Department
G. Vigneshwari	2020-2021	Started her own firm		Entrepreneur
S. Ajay Kanth	2020-2021	Achieved Govt job		Cyberabad Commissionerate Department
B. Sai Teja	2019-2020	Achieved Govt job		Reserved Sub Inspector

● **Financial Report**

✓ Budget Proposals and Utilisation

Category	Description	Proposed Budget	Utilised Budget	Remaining Budget	Notes
Equipments (Hardware/ Software)	Automation and Robotics Lab PLC CPU S-200 Smart-SIEMENS-1 ROBOTIC kits-10	4,75,000	175226	299744	
Training Programs		1,50,000			
Miscellaneous		75,000			

● **Community Engagement and Outreach**

✓ Programs conducted with NSS on Social Responsibility Initiatives

Program Name	Description	Date	Location	Participants	Impact/ Outcomes
International Yoga day	A yoga session was conducted to promote physical fitness, mental well-being, and stress relief through guided postures and breathing techniques.	21st June 2025	MCET	10	Participants experienced improved flexibility, relaxation, and increased awareness of the importance of a healthy lifestyle.
Oral Cancer	An oral cancer awareness program was organized to educate participants about early signs, risk factors, and preventive measures.	28th April 2025	MCET	22	Participants gained knowledge on early detection and prevention, encouraging timely medical check-ups and healthier lifestyle choices.

Road Safety Awareness	A road safety awareness program was conducted to educate participants on traffic rules, safe driving practices, and accident prevention measures	31st Jan 2025	MCET	8	Participants developed a better understanding of road safety, fostering responsible behavior and reducing the likelihood of traffic accidents.
Voting Pledge	A voting pledge campaign was organized to encourage participants to commit to exercising their right to vote responsibly and actively participate in the democratic process.	25th Jan 2025	MCET	7	Participants became more aware of the importance of voting, fostering civic responsibility and increased voter participation in elections.
Awareness Program on Hands-on Emergency Therapy and First Aid	An equips participants with practical skills to respond effectively during medical emergencies. It focuses on life-saving techniques, immediate care, and building confidence to act swiftly in critical situations.	Nov 2024	MCET	20	Participants gained confidence in providing immediate first aid and learned essential emergency response techniques to handle critical situations promptly.
Eye check-up camp	An eye check-up camp was organized to promote eye health and provide free vision screening and consultation to participants.	14 th Nov 2024	MCET	17	Participants became aware of their eye health status, and early detection of vision problems enabled timely medical advice and follow-up care.
Traffic Awareness	A traffic awareness program was organized to educate participants about road safety rules, responsible driving, and accident prevention.	23rd Aug 2024	Traffic Training Institute, Goshama l,Hyd.	5	Participants gained better understanding of traffic regulations, promoting safer road behavior and reducing the risk of accidents.
Raksha Bhandan	Raksha Bandhan was celebrated to honor the bond between brothers and sisters, fostering love, respect, and unity.	22 nd Aug 2024	MCET	10	The celebration strengthened emotional ties, promoted cultural values, and encouraged a spirit of care and protection among participants.

- **Appendices**

- ✓ Detailed Statistical Data
- ✓ List of Publications
- ✓ Additional Supporting Documents