



METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

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ANNUAL REPORT

(Academic Year 2024 - 25)

**DEPARTMENT OF
HUMANITIES AND SCIENCES**

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 nurture and inculcate knowledge and understanding of engineering sciences amongst the budding technocrats and groom the students with intellectual and professional strength

MISSION OF THE DEPARTMENT

1. To play a pivotal role in laying the foundation of engineering for all the branches of Engineering.
2. To provide high-quality inputs for understanding the relevance and applications of the Basic Sciences in Engineering Discipline.
3. To develop soft-skills, interpersonal skills and build confidence in developing their personality.
4. To facilitate the budding professionals to face dynamic situations of the business world, through training, mentoring and counselling and by creating 'learning rich' environment.

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- **Departmental Profile**

- ✓ Academic Programs

Program Name	Degree	Duration	Intake	Specialisation
BE	UG	4 years	192	AI
BE	UG	4 years	192	AI & ML
BE	UG	4 years	28	CIVIL
BE	UG	4 years	193	CSE
BE	UG	4 years	127	ECE
BE	UG	4 years	40	EEE
BE	UG	4 years	30	MECH

- ✓ Admissions Statistics

Academic Year	Program	Sanctioned Intake	Total Admitted Students	Admission Percentage	Male Students	Female Students
2024-25	BE I Year	802	802	100	582	220

- ✓ Laboratory Equipment (Hardware/ Software) upgrades

Sl.No.	Major Equipment/ Software with specifications	Cost of Equipment/ Software	Quantity	Total cost including GST
1	K-van solutions	English Language lab software	30	

- **Academic Highlights:**

- **Faculty and Staff**

- ✓ Faculty Achievements and Awards

Faculty Name	Achievement / Award	Description	Date	Awarding Body/ Institution	Remarks
Dr.A.Arunkumar	Acted As Chair Person		24-07-2024 & 25-07-2024	Department of Basic Sciences (BS) and Humanities & Sciences (H & M), G. Narayanama Institute of Technology & Science, Shaikpet, Hyderabad, India and Global conference Hub, Coimbatore, Tamil Nadu, India on 24th & 25th July 2024.	
Dr.A.Arunkumar	Reviewer		26-7-2024	Indian Journal of science and Technology	
Dr.A.Arunkumar	Editorial Member		31-07-2024	Engineering and Applied Sciences, Science Publishing Group	
Dr.A.Arunkumar	Reviewer		03-10-2024	Bulletin of Electrical Engineering	
Dr.A.Arunkumar	Reviewer		16-04-2025 - 17-04-2025	International Conference on Mathematics, Computing and Artificial Intelligence for Management Innovation	

Professional Development Activities Organised

- Conferences
- FDPs
- Workshops
- Seminars/ Webinars

Activity Name	Organiser	Description	Date	Venue	Target Audience	Remarks
ONE-DAY WORKSHOP & HANDS-ON TRAINING ON ExpEYES	Dr.A.Arunkumar Dr.Kodumuri Veerabhadra Rao	The participants expressed great satisfaction with the workshop, particularly appreciating the interactive format and the practical exposure gained the session helped them understand the core concepts of physics more effectively.PO5,PO1,PO2, PO6	18-02-2025	MCET	60	One day

- ✓ Professional Development Activities (Registered/ Attended / Passed)
 - Self-Study Courses (SWAYAM/ NPTEL/ COURSERA ETC)
 - Workshops
 - Seminars/ Webinars
 - Orientation Courses
 - Refresher Courses
 - Certification Courses

Conferences

Faculty Name	Activity Name	Organiser	Description	Date	Venue	Remarks
Dr. Zeena Jayan	Next Level of Higher Education & Research Science AI, Technology, Humanities, Commerce & Management	Hi-Learn Edutech institute, Karnataka	1 DAY	29-09-2024	Hi-Learn Edutech institute, Karnataka	Attended
Mrs. P.V. Himabindu	All India Women Academicians Conference envisioning New Bharath	ABRSM & ICSSR	1 day	21-09-2024	ABRSM & ICSSR	Attended
Dr.K.Anuradha	All India Women Academicians Conference envisioning New Bharath	ABRSM & ICSSR	1 day	21-09-2024	ABRSM & ICSSR	Attended
Dr.A.Arunkumar	International Conference on Innovative Horizons In Material Research: Growth, Characterization And Applications (ICIHMR-2024)	Department of Physics, SRM, Institute of Science and Technology, Ramapuram Campus, Chennai	2 days	20-12-2024 to 21-12-2024	Department of Physics, SRM, Institute of Science and Technology, Ramapuram Campus, Chennai	Attended

Mrs. P.V. Himabindu	National Conference on Mathematics in the Modern World : Applications and Challenges NCMMWAC-2024	Department of Mathematics, Osmania University, Hyderabad	1 DAY	20-12-2024 to 21-12-2024	Osmania University, Hyderabad	Attended
Dr.K.Kalyani	National Conference on Mathematics in the Modern World : Applications and Challenges NCMMWAC-2024	Department of Mathematics, Osmania University, Hyderabad	1 day	20-12-2024 to 21-12-2024	Osmania University, Hyderabad	Attended
Dr.Gladys. T	National Conference on Mathematics in the Modern World : Applications and Challenges NCMMWAC-2024	Department of Mathematics, Osmania University, Hyderabad	1 day	20-12-2024 to 21-12-2024	Osmania University, Hyderabad	Attended
Mr.T.Joseph	National Conference on Mathematics in the Modern World : Applications and Challenges NCMMWAC-2024	Department of Mathematics, Osmania University, Hyderabad	2 days	20-12-2024 to 21-12-2024	Osmania University, Hyderabad	Attended
Mrs.D.Saritha	National Conference on Mathematics in the Modern World : Applications and Challenges NCMMWAC-2024	Department of Mathematics, Osmania University, Hyderabad	1 DAY	20-12-2024 to 21-12-2024	Osmania University, Hyderabad	Attended
Dr.Emily Grace Pandula	International Conference on Advances in Biotechnology,Chemistry and Life Sciences (ICABCLS-2024)	Dallas, USA	1 day	27th - 28th December 2024	Dallas, USA	Attended
Dr.A.Arunkumar	3rd International Conference on Advanced Materials for Clean Energy and Health Applications	University of Jaffna, Sri Lanka.	1 day	March 27 -28,2025	University of Jaffna, Sri Lanka.	Attended
Dr.K.Anuradha	3rd International Conference on Advanced Materials for Clean Energy and Health Applications	University of Jaffna, Sri Lanka.	2 days	March 27 -28,2025	University of Jaffna, Sri Lanka.	Attended
Dr,Kodumuri Veerabhadra Rao	3rd International Conference on Advanced Materials for Clean Energy and Health Applications	University of Jaffna, Sri Lanka.	1 DAY	March 27 -28,2025	University of Jaffna, Sri Lanka.	Attended
Ms. K.Ruchita	International Conference	Department	1 day	10-5-	Bihar, India	Attended

	on advancement in science, Engineering and Management (ICSEM-2025)	of Computer Science, Vidya Vihar Institute of Science and Technology Purnea, Bihar, India and Global conference Hub ,coimbatore , Tamil Nadu, India		2025 to 11-05-2025	and Global conference Hub ,coimbatore , Tamil Nadu, India	
Mrs.Sona Iruvati	International Conference On Business, Technology, Innovation and Sustainability (ICBTIS – 2025)	School of Management Studies, VISTAS, Chennai	1 day	15th & 16th May 2025	VISTAS, Chennai	Attended

FDPs

Faculty Name	Activity Name	Organiser	Durati on	Descripti on	Date	Ven ue	Remar ks
Dr.Zeena Jayan	How to Write and Publish Research Papers	Hi Learn EduTech Institute, Karnataka	1 week		11-07-202 to - 17-07-2024		Attende d
Dr.A. Arunkumar	Empowering Teaching Research and Research Through Emerging Technology	Ethiraj College for Women, Chennai	1 week		22-26,29,30 July 2024		Attende d
Mrs.J.R.Hephz b ah	Empowering Teaching Research and Research Through Emerging Technology	Ethiraj College for Women, Chennai	1 week		22-26,29,30 July 2024		Attende d
Dr.Zeena Jayan	Empowering Teaching Research and Research Through Emerging Technology	Ethiraj College for Women, Chennai	1 week		22-26,29,30 July 2024		Attende d
Mrs.I.V.Sona Iruvanti	Empowering Teaching Research and Research Through Emerging Technology	Ethiraj College for Women, Chennai	1 week		22-26,29,30 July 2024		Attende d
Mrs.P.V.HimaB indu	Numerical Computation and Dynamical System	Department of Mathematics, Anurag University, HYderabad	5 days		22-07-2024 to 26-7-2024		Attende d
Mrs.P.V.HimaB indu	Real life Applications of Mathematics and Acturaial Sciences	Crescent Institute of Science and Technology	1 week		25-07-2024 to 30-07-2024		Attende d
Mrs.P.V.HimaB indu	Assimilation of Indian Knowledge Systems with NEP 2020	BVRIT HYDERABAD College of	5 days		30-07-2024 to 04-08-		Attende d

	Prospect and Retrospect	Engineering for women			2024		
Dr.A.Arunkumar	Foundational sciences Corner Stones of engineering	Department of Physics, Sphoorthy Engineering College, Hyderabad	3 days		08-08-2024 to 10-08-2024		Attended
Dr.Emily Grace	Foundational sciences Corner Stones of engineering	Department of Physics, Sphoorthy Engineering College, Hyderabad	3 days		08-08-2024 to 10-08-2024		Attended
Mrs.P.V.HimaBindu	Foundational sciences Corner Stones of engineering	Department of Physics, Sphoorthy Engineering College, Hyderabad	3 days		08-08-2024 to 10-08-2024		Attended
Dr.Zeena Jayan	Advanced Materials and Emerging Technologies from Electronics and Sustainable Energy Solutions	KLH university	5 days		23-09-2024 to 28-09-2024		Attended
Dr.Zeena Jayan	Sustainable water and waste management	Methodist College of Engineering & Technology, Hyderabad	5 days		23-09-2024 to 28-09-2024		Attended
Dr.A.Arunkumar	Sustainable water and waste management	Methodist College of Engineering & Technology, Hyderabad	5 days		23-09-2024 to 28-09-2024		Attended
Dr.Gladys.T	Innovative Applications of Mathematics	Baptala Engineering College	5 days		18-11-2024 to 23-11-2024		Attended
Dr.A.Arunkumar	Advanced Computational and Experimental Research in Physics	Mohammed Sathak A J College of Engineering, Chennai	6 days		09.12.2024 to 14.12.2024		Attended
Dr.Swathi Mathur	“USAGE OF DEEP LEARNING, MACHINE LEARNING AND ARTIFICIAL INTELLIGENCETOWARDS SMART MOBILITY”	by DEPARTMENT OF ECE, KL University, Hyderabad	5 days		16-12-2024 to 21-12-2024		Attended
Mrs.P.V.Himabindu	Statistical Applications and Data Analytics for	SRM Institute of Science and	5 days		17-12-2025 to		Attended

	Modern Research	Technology, Chennai			22-12-2025		d
Mrs.D.Saritha	Statistical Applications and Data Analytics for Modern Research	SRM Institute of Science and Technology, Chennai	5 days		17-12-2025 to 22-12-2025		Attended
Dr.Gladys.T	Statistical Applications and Data Analytics for Modern Research	SRM Institute of Science and Technology, Chennai	5 days		17-12-2025 to 22-12-2025		Attended
Dr.Zeena Jayan	Recent Advances in Chemical Science and Engineering	Department of Chemistry, Presidency University	5 days		06-01-2025 to 10-01-2025		Attended
Dr.A.Arunkumar	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology, Hyderabad	5 days		20-1-2025 to 24-01-2025		Attended
Dr.Kodumuri Veerabhadra Rao	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology, Hyderabad	5 days		20-1-2025 to 24-01-2025		Attended
Dr.Zeena Jayan	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology, Hyderabad	5 days		20-1-2025 to 24-01-2025		Attended
Dr.A.Arunkumar	Advancements in Material Science	Department of Physics, KPR Institute of Engineering and Technology, Coimbatore	5 days		20.01.2025 to 24.01.2025		Attended
Mrs.P.V.Himabindu	Data Visualization and Business Intelligence using Power BI and Tableau delivered	ElectroCloud Labs in association Methodist College of Engineering and Technology, Hyderabad	5 days		27-01-2025 to 31-01-2025		Attended
Dr.A.Arunkumar	Energy Technologies: Materials, Device and Recycling	Dr. Mahalingam College of Engineering and Technology, Pollachi	3 days		13.02.2025 to 15.02.2025.		Attended
Dr.A.Arunkumar	Exploring Hyper-Performance Quantum Computing System with Electrochemical-Nonlinear Optical Materials through DFT approach	Department of Physics, School of Basic Sciences, Vels Institute of Science, Technology &	5 days		19.02.2025 to 23.02.2025		Attended

		Advanced Studies (VISTAS), Pallavaram, Chennai-117					
Dr.Zeena Jayan	Exploring Hyper-Performance Quantum Computing System with Electrochemical-Nonlinear Optical Materials through DFT approach	Department of Physics, School of Basic Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai-117	5 days		19.02.2025 to 23.02.2025		Attended
Dr.Swathi Mathur	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Mrs.P.V.Himabindu	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Mr.T.Joseph	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Dr.Gladys T	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Dr.K.Kalyani	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Mrs.G.Swapna	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Mrs.D.Saritha	Quantum Computing through the lens of Mathematics	Stanley College of engineering and Technology for women	5 days		03-02-2025 to 07-02-2025		Attended
Dr.Sunil Solomon Philip	ENGLISH LANGUAGE STUDIES: CURRENT ISSUES, TRENDS & CHALLENGES- GENERATIVE ARTIFICIAL INTELLIGENCE AND ELT	Vasavi College of Engineering, Hyderabad.	5 days		17-03-2025 to 22-03-2025		Attended
Dr.A.Arunkumar	FDP QT – 02	E & ICT	40 hrs		11-04-		Attended

	Foundation of Quantum Technologies	Academies Dept of CSE MNIT Jaipur			2025 to 03-05-2025		d
Mrs.P.V.Himabindu	Role of AI in Next Generation Applications	Vidyalankar Polytechnic	13 days		16-06-2025 to 28-06-2025		Attended
Mr.P.Nagaraju	Cutting - Edge Chemical Technologies and Industry Relevance	Department of Chemistry, Vardhaman College of Engineering, Hyderabad	5 days		03-03-2025 to 07-03-2025		Attended
Dr.A.Arunkumar	AI Mastery for Educators	Vishleasani I IT hub – Patna	Two weeks		15-05-2025 to 07-06-2025		Attended
Dr.Zeena Jayan	Enhancing Academic Resaerch Excellence : A Comprehensive Approach to Research Methodology and AI Integration	R & D cell, Poornima University	6 days		23-06-2025 to 28-06-2025		Attended
Dr.A.Arunkumar	Informative & Emerging Research Trends in Applied Sciences	Department of Applied Sciences, NIET, NIMS, University Rajasthan, Jaipur	5 days		23-06-2025 to 27-06-2025		Attended

✓ Professional Memberships

Membership ID	Professional Organisation	Membership Type	Membership Duration	Member Since	Status
I44463784	Indgiants Association of Educators & Professional Trainers (IAEPT)	Life Member	Life Member	2024	Active
I88160089	Indgiants Association of Educators & Professional Trainers (IAEPT)	Life Member	Life Member	2024	Active
LMIOASD-170/2024	International Organization for Academic and Scientific Development	Life Member	Life Member	2024	Active
LMIOASD-180/2024	International Organization for Academic and Scientific	Life Member	Life Member	2024	Active

	Development				
LM143401	Indian Society for Technical Education	Life Member	Life time	2025	Active
LM143404	Indian Society for Technical Education	Life Member	Life time	2025	Active
LM143407	Indian Society for Technical Education	Life Member	Life time	2025	Active
LM143416	Indian Society for Technical Education	Life Member	Life time	2025	Active

✓ Ph.D. Guided / Guiding

Ph.D. Student Name	Thesis Title	Year of Enrolment	Year of Completion	Current Status	Co-Supervisor(s)	Publications
NIL						

• 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	751	379	50.46%

✓ Sports Activities Participated

Roll. No.	Semester	Student Name	Activity	Description	Date	Venue	Remarks Participated/ Won)
NIL							

✓ Awards and Honors Won

Roll. No.	Semester	Student Name	Award	Description	Date	Awarding Body	Remarks
NIL							

✓ Student club and organization achievements

Club/ Organisation	Achievement	Description	Date	Remarks

✓ Cultural Activities

Event Name	Description	Date	Venue	Remarks
Fresher's Day	II Year students hosted the event and welcomed the fresher's	09/10/2024	MCET COLLEGE GROUND	

✓ Parent- Teacher Meeting

Meeting Date	Description	Venue	Remarks
02-11-2024	138 parents were attended	MCET	Received good response from the parents

• Research and Development

✓ Research Projects and Grants

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

✓ Publications in Journals

Title of Paper	Author(s)	Journal Name	Volume	Issue	Page Numbers	Publication Date	Impact Factor	Remarks
Synthesis, Spectroscopic analysis (FT-IR, FT-Raman, UV, NMR), non-covalent interactions (RDG, IGM) and dynamic simulation on Bis(8-hydroxy quinoline) salicylate salicylic acid	A. Arunkumar	<u>Journal of Molecular Structure</u>	<u>Volume 1310,</u> 15 August 2024, 138231			15 August 2024,	4.7	
Analysis on the charge transfer and intermolecular interaction of the synthesized biological molecule bis(benzimidazolium) maleate: a comprehensive DFT approach	A. Arunkumar	Structural Chemistry	Volume 36, pages 1211–1227, Jan 2025			Jan 2025	2.1	
Simple Mathematical Description of Age-Related Changes in Human Crystalline Lens Geometry in the Indian Population	Dr. Emily Grace Pandula	South Eastern European Journal of Public Health	<u>Volume XXVI</u> <u>S2 2025</u>			2025	1.34	

Thermoelectric Generators: Principles, Materials, and Emerging Applications	Ms. Ruchita Kandela	International Research Journal on Advanced Engineering and Management	Volume : 03 Issue: 05 May 2025 Page No: 2008-2016			05 May 2025	NIL	
The Engineering students should Un-learn: Learn and Re-learn the English Language Pronunciation	Dr. Sunil Solomon Philip	ELT quarterly International Peer – Review	Volume : 24 Issue: 2 June – 2025			2 June – 2025	NIL	

✓ Publications in Proceedings of Conferences

Title of Paper	Author(s)	Conference Name	Location	Date	Remarks
NIL					

✓ Collaborations and Partnerships

Project Title	Collaborating Institution	Description	Start Date	End Date	Remarks
NIL					

✓ Patents, Innovations and Start-ups

Patent/ Innovation/ Start-up	Inventor(s)	Description	Date Filed	Status	Remarks
Patent		THE IMPACT OF NONVERBAL COMMUNICATION ON INTERPERSONAL RELATIONSHIPS	202441061661 A 23/08/2024	Published	
Patent	Mrs. I. V. Sona Lakshmi	ENGLISH LANGUAGE TRANSLATION DEVICE	435826-001 26 / 10 / 2024	Published	

✓ Research collaborations and Industry partnerships

Collaboration	Partner Organisation	Description	Start Date	End Date	Remarks
NIL					

✓ Internships and Training Programs

Program Name	Description	Duration	Companies Involved	Number of Students
NIL				

✓ Consultancy

Consultancy Project	Client Organisation	Description	Start Date	End Date	Remarks
NIL					

• Placements

✓ Placement Statistics including Higher Education

Year	Total Students	Total students placed	Placement Percentage	Major Recruiters
NIL				

- **Alumni updates**

- Alumni Meetings Conducted

Date	Location	Key Discussions	Number of Attendees	Outcomes
NIL				

- Alumni achievements

Alumni Name	Achievement	Year	Recognition/ Award
NIL			

- Renowned Alumni

Alumni Name	Graduation Year	Field Achievements	of	Notable Positions	Contribution/
NIL					

- **Financial Report**

- ✓ Budget Proposals and Utilisation

Category	Description	Proposed Budget	Utilised Budget	Remaining Budget	Notes
Equipments (Hardware/ Software)		5,47,370	1,68,734	378636	
Training Programs		1,10,000			
Miscellaneous		20,000			

- **Community Engagement and Outreach**

- ✓ Programs conducted with NSS on Social Responsibility Initiatives

Program Name	Description	Date	Location	Participants	Impact/ Outcomes
International Mother Language Day	The importance of Matrubhasha Diwas	21st Feb 2025	Methodist College of Engineering & Technology, Hyderabad	251 members	Students participated actively

- **Appendices**

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

Amisha
HOD - H & S

**Head of the Department,
Department of H & S
Methodist College of Engg. & Tech
Abids, Hyderabad-500 001**