



# MANGALAM COLLEGE OF ENGINEERING ETTUMANOOR



## ANNUAL REPORT 2023-2024



**MANGALAM COLLEGE OF  
ENGINEERING**  
(Accredited by NAAC A Grade)

**DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING  
ANNUAL REPORT  
2023-2024**

(All the activities held between July 2023- June 2024)

HoD, Dept. of ECE

Principal

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**1. Faculty participation related to curriculum development, BOS Member and KTU auditing member**

S. No	Name of the Faculty	Role of Participation
1	Dr. Abraham C. G.	BOS Member

**2. Program Organized in the Department**

Particulars	Count
Number of Add on /Certificate programs organized	9
Number of students participated in Certificate/ Add-on programs	137
Number of students participated in subject related Certificate or Add-on programs	148
Number of Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability	2
Number of project work/field work/internship organized	4
Number of students participated in the project work/field work/internship organized	76

**2.1. Add on/Certificate Programs organized in the department (including GATE, IELTS coaching etc.,)**

S. No	Sem	Details of the Program	Details of the Speaker	No of Participants
		NIL		
<b>Total No. of Participants</b>				

**2.2. Subject related Add on/Certificate Programs organized in the department**

S. No	Date	Details of the Program	Details of the Speaker	No of Participants
1.	July 2023 - Dec 2023	FPGA Based System Design (S5 Honour)	Dr. Deepthy Mary Alex	1
2.	7/8/23-11/8/23	ASIC DESIGN	Ms. Mariya Stephen	36
3.	30/10/ 23 - 7/4/24.	Computer Hardware & Networking (MSME)	Ms.Aparna Jose	24
4.	15/1/24 - 19/1/24	Circuit Simulation	Mr. Sumesh Chandran	36
5.	15/1/24 - 19/1/24	Embedded System Design	Ms. Jyothisree K.R	41
6.	Jan 2024 - June 2024	Electronic Design Automation (S6 Honour)	Ms. Meera Panicker P.R	1
7.	July 2023 - Dec 2023	Basics of Robotics (S3 Minor)	Ms. Aparna Jose, Mr. Sumesh Chandran	93
8.	Jan 2024 - June 2024	Introduction to Industrial Automation (S4 Minor)	Ms. Meera Panicker P.R	47

9.	Jan 2024 - June 2024	Nano Electronics (S4 Honour)	Ms. Jyothisree K.R	6
<b>Total No. of Participant</b>				285

### 2.3. Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability

S. No	Date	Details of the Program	Details of the Speaker	Relevance of the subject	No of Participants
1	24.11.2023	Workshop On Fire Safety and First Aid	Senior Fire & Rescue Officer (Gr), Fire & Rescue station, Kottayam	It equips them with essential skills to handle emergencies, ensuring personal and workplace safety in engineering environments. Understanding these protocols fosters a culture of preparedness and responsibility, which is critical in industries where safety compliance is paramount.	26
2	19.10.2023	Webinar on "Professional Ethics in Engineering and Mass Communication"	Mr. Shybin P Shibu, Central Head, Research & development, Reporter TV	This webinar on Professional Ethics in Engineering and Mass Communication is highly relevant for B.Tech students as it equips them with the ethical frameworks needed to navigate real-world challenges in technology and communication responsibly. It emphasizes the importance of integrity, accountability, and ethical decision-making, which are crucial for building a successful and trustworthy career in their respective fields.	112
<b>Total No. of Participants</b>					138

### 2.4. Programs organized in the department related to experiential learning through project work/field work/internship during the year

S. No	Relevance of the Program	Total no of programs	No of Participants
1	Field visit	0	-
2	Project work	10 main project + 11 mini project	77
3	Internship	4	76
4	Industrial visit	4	169
	<b>Total</b>	<b>29</b>	322

### 3. Students Performance

Particulars	Count
Number of outgoing students placed	20
Number of outgoing student progression to higher education	4
Number of students qualifying in state/ national/ international level examinations	1
Number of events participated by students in sports/cultural activities at university/state/national / international level	NIL
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level	NIL

#### 3.1. Students Placement details

S. No	Name of the student	Name of the company placed	Avg. Salary per annum
1	ANAGHA RAKESH	TOUCH Q SOFTWARE SOLUTION ,	180000-300000
2	STEPHANE ABRAHAM	TCS	336877
3	ANAGHA RAKESH	TCS	336877
4	JUSTIN KURIKOSE SUNIL	QSPIDERS	
5	SREEJISH K PILLAI	QSPIDERS , TRANSORZE SOLUTIONS	180000
6	ANJITHA ANIL	WENGLOR SENSORIC INDIA	300000 - 800000
7	ARSHA JOY	ROMBUS LEARNING APP	180000
8	LAVANYA K	QSPIDERS	
9	RAHUL R NATH	QSPIDERS	
10	DHANUSH M RAJ	APARAJITHA DYNAMIC SYNERGIES	180000
11	ASWIN SIBY	TOUCH Q SOFTWARE SOLUTION	180000-300000
12	AKASH PS	TOUCH Q SOFTWARE SOLUTION	180000-300000
13	TENIL SOJAN	TOUCH Q SOFTWARE SOLUTION	180000-300000
14	JIBIL JOJI	TOUCH Q SOFTWARE SOLUTION	180000-300000
15	AKHINESH BIJU	TOUCH Q SOFTWARE SOLUTION	180000-300000
16	VISHNU S	DATAPY	240000
17	ANGEL CHANDRESH	DATAPY	240000
18	SEBIN PS	DATAPY	240000
19	SHAN B MATHEWS	DATAPY	240000

20	SUBIN SAJI PETER	DATAPY	240000
<b>Total no of students</b>			<b>20</b>

### 3.2. Students Higher studies details

S. No	Name of the student	Choice of Course	Name of the Institute
1	Staphine abraham	MTech VLSI & ES	Mangalam College of Engineering
2	Anakha Rakesh	MTech VLSI & ES	Mangalam College of Engineering
3	Rahul R Nath	MTech VLSI & ES	Mangalam College of Engineering
4	Devika Raj	MTech VLSI & ES	Mangalam College of Engineering
<b>Total no of students</b>			<b>1</b>

### 3.3. Students progression in state/ national/ international level examinations

S. No	Name of the student	Qualifying Exam
1	ANJITHA ANIL	GATE

### 3.4. Student Participation details

#### a. Prizes/Medals/Positions Achieved by Students (Programmes Held MLMCE & Other Colleges)

Sl. No.	Name of the Students	Class	Title of the Paper / Project/ symposium/ etc	Oragnizer of the event	Position obtained (I, II, III etc)
1	KEERTHANA SURESH	ECE,S4	western group dance(girls)	MANGALAM COLLEGE	III
3	AKHILA K S	ECE,S4	western group dance(girls)	MANGALAM COLLEGE	III
4	AKHILA K S	ECE,S4	Dance Choreography	MANGALAM COLLEGE	II
5	AKHILA K S	ECE,S4	Step N Synchro	MANGALAM COLLEGE	III
6	AJNA R SHAH	ECE,S4	Poem writing (malayalam)	MANGALAM COLLEGE	II
7	JASMINE ANNA JOHN	ECE,S4	Poem writing (ENGLISH)	MANGALAM COLLEGE	II
8	JIYON BABU	ECE,S2	Nadan pattu	MANGALAM COLLEGE	III
9	RAJASREE R	ECE,S2	Fusion dance	MANGALAM COLLEGE	III
10	MEENAKSHI MOHAN	ECE,S2	Fusion dance	MANGALAM COLLEGE	III
11	KRUPA SANTHOSH	ECE,S2	Theme dance (girls)	MANGALAM COLLEGE	III
12	VISHNU MS	ECE,S2	Nadan pattu	MANGALAM COLLEGE	III
13	ESWAR ARAVIND	ECE,S2	Nadan pattu	MANGALAM COLLEGE	III
14	ELWIN JOSE	ECE,S2	Nadan pattu	MANGALAM COLLEGE	III

15	DEEPAK	ECE,S2	Nadan pattu	MANGALAM COLLEGE	III
16	DEVI S KUMAR	ECE,S2	Fusion dance	MANGALAM COLLEGE	III
17	NANDHANA G	ECE,S2	Fusion dance	MANGALAM COLLEGE	III
18	SWATHY MOL	ECE,S2	Fusion dance	MANGALAM COLLEGE	III
19	ANGEL CHANDRAN	ECE,S8	western group dance(girls)	MANGALAM COLLEGE	II
20	Stephane Abraham	ECE,S8	Eloction English	MANGALAM COLLEGE	III
21	Stephane Abraham	ECE,S8	Recitation English	MANGALAM COLLEGE	II
22	Stephane Abraham	ECE,S8	Extempor English	MANGALAM COLLEGE	II
23	AFSSY BASHEER	ECE,S8	Nadan pattu	MANGALAM COLLEGE	I
24	AFSSY BASHEER	ECE,S8	Fancy dress	MANGALAM COLLEGE	I
25	AFSSY BASHEER	ECE,S8	Mono act	MANGALAM COLLEGE	I
26	AFSSY BASHEER	ECE,S8	Film review	MANGALAM COLLEGE	II
27	ANAGHA RAKESH	ECE,S8	western group dance(girls)	MANGALAM COLLEGE	II
28	ARSHA JOY	ECE,S8	western group dance(girls)	MANGALAM COLLEGE	II
27	AKHIL K SOMAN	ECE,S8	Adapture boys	MANGALAM COLLEGE	II
28	AKHIL K SOMAN	ECE,S8	Step N Synchro	MANGALAM COLLEGE	I
29	Ayana Antony	ECE,S6	Nail Art	MANGALAM COLLEGE	I
30	Ayana Antony	ECE,S6	Fusion dance	MANGALAM COLLEGE	III
31	Ayana Antony	ECE,S6	Dance Choreography	MANGALAM COLLEGE	III
32	AKHIL K SOMAN	ECE,S8	Fusion Dance(boys)	MANGALAM COLLEGE	II
33	NIBHAMOL	ECE,S6	Dance Choreography	MANGALAM COLLEGE	III
34	NIBHAMOL	ECE,S6	Fusion Dance(girls)	MANGALAM COLLEGE	III
35	ABIYA DAL	ECE,S6	Adapture(girls)	MANGALAM COLLEGE	I
36	ABIYA DAL	ECE,S6	Divo & Diva	MANGALAM COLLEGE	I
37	JAYASOORYA	ECE,S6	Selfie Contest	MANGALAM COLLEGE	I
38	ANATHAKRISHNAN	ECE,S6	Divo & Diva	MANGALAM COLLEGE	I
39	Jisha Gigi	ECE,S6	Extempor English	MANGALAM COLLEGE	III
40	Jisha Gigi	ECE,S6	Eloction English	MANGALAM COLLEGE	I
41	Jisha Gigi	ECE,S6	Recitation English	MANGALAM COLLEGE	I
42	Jisha Gigi	ECE,S6	Dance Choreography	MANGALAM COLLEGE	III
43	Stephane Abraham	ECE,S7	800 M RACE	MANGALAM COLLEGE	II
44	Stephane Abraham	ECE,S7	400 M RACE	MANGALAM COLLEGE	III
45	Stephane Abraham	ECE,S7	4*400 M RACE	MANGALAM COLLEGE	III
46	ABIYA DAL	ECE,S5	LONG JUMP	MANGALAM COLLEGE	I
47	ABIYA DAL	ECE,S5	BADMINTON- DOUBLES	MANGALAM COLLEGE	I



48	ABIYA DAL	ECE,S5	800M	MANGALAM COLLEGE	I
49	Jisha Gigi	ECE,S5	BADMINTON- DOUBLES	MANGALAM COLLEGE	I
50	Jisha Gigi	ECE,S5	BASKET BALL	MANGALAM COLLEGE	I
51	Jisha Gigi	ECE,S5	SHOT PUT	MANGALAM COLLEGE	II
52	Ayana Antony	ECE,S5	100M	MANGALAM COLLEGE	I
53	Ayana Antony	ECE,S5	400M	MANGALAM COLLEGE	II
54	Ayana Antony	ECE,S5	BASKET BALL	MANGALAM COLLEGE	I
55	Ayana Antony	ECE,S5	200M	MANGALAM COLLEGE	I

\* Significant prizes won by the students in paper presentation, projects etc may be highlighted

b. *Total No. of prizes won by the students in paper presentation: Nil*

c. *Total No. of prizes won by the students for quiz, technical contest, projects etc: 5*

d. *Students Projects sanctioned*

Sl. No.	Name of the Student(s) and year of study	Name of the Guide	Title of the Project	Sponsorin g Agency	Sanctioned Date	Sponsored amount
NIL						

#### 4. News Letters & Magazine

Particulars	Count
Number of News letters	1
Number of Magazine	-

Sl. No.	Name of the News Letter/Magazine	Volume	Month of Release
1.	REFLECTIONS	14	JAN 2024

#### 5. Faculty/Staff Development Activities

Particulars	Count
Number of programs such as TTP/ SDP/FDP / workshop etc attended by faculties	27
Number of days attended by faculties	55
Number of faculties provided financial support for attending SDp/STTP/FDP	11
Number of training programmes attended by technical staffs	1
Number of professional development /administrative training programs organized by the department for teaching and non-teaching staff during	3

## 5.1. Quality improvement programmes

(i) *Details of STTP/SDP/FDP / workshop etc attended by faculty :*

S.No	Name of the Faculty	Type of the Programme (STTP/SDP/FDP/etc)	Title of the program	Period (From - To)	No. Of Days	Name of the organizer	Sponsor of the program	Financial Support Provided Yes/No
1	Dr. Deepthy Mary Alex	FDP	Cloud Infrastructure	21st - 25th August 2024	5	MLRIT	Brainovision Solutions India Pvt Ltd. & AICTE	Yes
2	Dr. Deepthy Mary Alex	FDP	Cyber Security & Forensics	22nd - 26th January 2024	5	Mangalam College of Engineering		Yes
2	Ms.Devika Sarath	FDP	FDP on AI @ Energy Efficiency	25/6/2024 - 28/6/2024	3			Yes
3	Ms.Devika Sarath	FDP	Intellectual property right and patent drafting	4/1/2024 - 12/1/2024	10	AMET		NO
4	Ms.Devika Sarath	FDP	FDP on Intelligent Future : Unlocking the potential of AI	3/7/2023 - 7/7/2023	5	MLMCE		No
5	Ms. Devika Sarath	FDP	Industrial approach to Internet of Things and it research challenges	20/3/2024 - 26/3/2024	7	VIT-AP		Yes

6	Dr. Deepthy Mary Alex	FDP	FDP on Intelligent Future : Unlocking the potential of AI	3/7/2023 - 7/7/2023	5	MLMCE		No
7	Ms.Jyothisree K R	FDP	FDP on Intelligent Future : Unlocking the potential of AI	3/7/2023 - 7/7/2023	5	MLMCE		No
8	Ms.Jyothisree K R	FDP	FDP on Intellectual Property Right and Patent Drafting	4/1/2024-12/1/2024	7	AMET university		No
9	Ajeesh S	FDP	FDP on Intelligent Future : Unlocking the potential of AI	3/7/2023 - 7/7/2023	5			
10	Ajeesh S	FDP	FDP on AI @ Energy Efficiency	25/6/2024 - 28/6/2024	3			
11	SUMESH CHANDRAN	FDP	FDP on Counselling and Academic Mentoring	1st to 5th of July 2024	5	KTU		NO

<b>Total No. of days attended</b>	<b>58</b>	<b>Total No. of Faculties Provided with financial support</b>	<b>nil</b>
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(ii) *Details of the training programmes attended by non-teaching:*

Sl.No.	Name of the faculty	Title of the Training programme	Organizing Institute	Period (From - To)	No of Days
1	All Lab staff	FDP on 3D EM simulation using CST STUDIO SUITE	MLMCE	14-08-2023 to 18-08-2024	5
<b>Total No. of days attended</b>					<b>NIL</b>

### 5.2. SDP/FDP/STTP Organized

Sl. No.	Dept	Type of programme	Title of the program	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
1.	ECE	FDP	FDP on "Intelligent Future: Unlocking the Potential of Artificial Intelligence"	03-07-2023 to 07-07-2023	11	MLMCE	
2	ECE	FDP	International Conference on "Recent Trends in VLSI and Communication Systems ICRTVC'24"	18-04-2024 to 19-04-2024	189	MLMCE	

### 5.3. Faculty Higher studies

Sl.No.	Department	Particulars	No.of Faculty
1	ECE	No. of Faculty sponsored for Ph.D. /Post-Doctoral Fellowship	Nil
2		No. of faculty completed their Ph.D	Nil
Total			

#### (i) Details of faculty registered for Ph.D /Post-Doctoral-Fellowship

Sl.No.	Name of the faculty	Registered under which Department	Name of the Research Guide	Date of Registration	Name of the University	Registration No.	Status
1	Er Jyothisree K R	ECE	Dr.Vinodkumar Jacob	20-10-2022	KTU	D-MAC 22 JAN 006	Comprehensive exam completed
2	Er Mariya Stephen	ECE	Dr.Vinodkumar Jacob	20-10-2022	KTU	D-MAC22JAN 005	Comprehensive exam completed
3	Er Neethan Elizabeth Abraham	ECE	Dr.Amir Antone Jones	7-7-2023	Karunya University	RPK23EC1 001	Course Work Doing
4	Er Devika Sarath	ECE	Dr. M Sucharitha	9-9-2017	Noorul Islam University	1117910204	PhD-waiting for Open Defence
5	Mr. Ajeesh S	ECE	Dr.Riboy Cheriyan	18-11-2021	KTU	D-MGP21JAN 006	Comprehensive Viva Completed

#### (ii) Details of faculty completed their Ph.D /Post-Doctoral-Fellowship

Sl. No.	Name of the faculty with designation	Name of the Guide, and Department	Name of the centre	Date of Viva-voce examination	Title of the Thesis	Area of the specialisation
1	Nil					

#### 5.4. Invited / Guest lecturers delivered by the faculty

Sl. No.	Name of the faculty	Topic	Details of the programme (Program Name College, Dept)	Date
1			Nil	

#### 6. Research and Innovations

Particulars	Count
Total Grants from Government and non-governmental agencies for research projects	-
Number of Seminars/conferences/workshops conducted	1
Number of SDP/STTP/FDP conducted	1
Number of research papers in the Journals notified on UGC website	34
Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings (including manuals)	2
Number of ongoing/completed consultancy projects	-
Number of Patents	1
Number of Ph.D guides in the department	-
Number of Ph.D doing faculties in the department	4
Number of Ph.D scholars in the department research centre	-

#### 6.1. Research Projects/Proposals applied

Sl. No.	Department	Name of the funding Agency (AICTE/DST/MNRE/etc)	Name of the Scheme (TAPTEC, MODROB, Workshop, Seminar Grant etc)	Number of Projects /Proposals applied	Cost of the Projects/ proposal applied Rs.
1.	ECE	KTU	Student Project	1	Rs 21,000/-
<b>Total</b>					

#### 6.2. Ongoing Research Projects/Proposals

Sl. No	Name of the project	Sanctioned by	Title of the Project	Name and Designation of the PI	Amount Sanctioned (Rs.in Lakhs)	Period From- To (Month/Yr.)	Status of the project
1.	NIL						

#### 6.3. Research Projects/Proposals completed

Sl. No	Name of the Scheme	Sanctioned by	Title of the Project	Name and Designation of the Chief Co-Ordinator	Amount Sanctioned (Rs.in Lakhs)	Amount utilised (Rs.in lakhs)	Period From- To (Month/Yr.)	Whether utilisation certificate submitted or not
NIL								

#### 6.4. Workshop/Seminars/International conference Organized

Sl. No.	Dept	Type of programme	Title of the Seminar/ Conferences	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
1.	ECE	International Conference	International Conference on “Recent Trends in VLSI and Communication Systems ICRTVC’24”	April 18th & 19th	189	MLMCE	-
2	ECE	Webinar	Professional Ethics in Engineering and Mass Communication	19.10.2023	112		
	ECE	Expert Talk	IC design Flow”	20.10.2023	54		
	ECE	Expert Talk	Latest Trends in VLSI	03.11.2023	30		
	ECE	Expert Talk	Introduction to Aerial Robotics	04.11.2023	36		
	ECE	Webinar	Image Processing Using MATLAB	08.11.2023	59		
	ECE	Expert Talk	Recent Trends in Wireless Communication	15.11.2023	60		
	ECE	Webinar	Advances in Semiconductor Research	20.11.2023	45		
	ECE	Webinar	Tool Command Language	23.11.2023	23		
	ECE	Workshop	Fire Safety and First Aid	24.11.2023	26		
	ECE	Expert Talk	Fighting Data Bias & Ethical AI –a Collective Responsibility	21.03.2024	142		

	ECE	Expert Talk, poster presentation, QUIZ	National Science day celebration- Challenges in the field of VLSI	28-02-2024	42		
	ECE	Expert Talk	Navigating The Start-up Journey: My Story"	08/09/2023	43		

\*Mention MLMCE-incase of sponsorship provided by college

### 6.5. Publication details of faculty

#### (i) Details of the Publication in National / International Reputed Journals:

S. No	Title of the Paper	Name of the Journal	Date, Month and Year of publication	Vol.No. and Page No. DOI	Name of the Author	National/ International	Indexing
1.	A Hybrid Model of Random Forest Ensemble and Resample for Cardiotocography Data Classification	Sigma Journal of Engineering and Natural Sciences	2024	Vol: 42, <a href="https://sigma.yildiz.edu.tr/article/1642">https://sigma.yildiz.edu.tr/article/1642</a>	Dr. Deepthy Mary Alex	International	ESCI

#### (ii) Details of the paper presented and published in National / International conference proceedings

S. No	Title of the Paper	Accepted/ Presented /Published	Date, Month and Year of publication	Vol. No. and Page No.	Name of the Conference	Name of the Authors	Proceedings Name
1.	Design of auto adjustable CPR assistive device for non-expertise usability scenarios	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452904015">https://doi.org/10.1051/e3sconf/202452904015</a>	ICSMEE'24	Dr. Abraham C. G	E3S Web of Conferences
2.	MEMS Technology in the Evolution of Structural Control Strategies	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452904013">https://doi.org/10.1051/e3sconf/202452904013</a>	ICSMEE'24	Ajeesh S	E3S Web of Conferences

3.	From Flames to Fuels: A Review of Combustion in Energy Generation	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452902016">https://doi.org/10.1051/e3sconf/202452902016</a>	ICSMEE'24	Shiney M Abraham	E3S Web of Conferences
4.	Electro-Chemical Energy Conversion and Storage Systems - Analytical Review.	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452902015">https://doi.org/10.1051/e3sconf/202452902015</a>	ICSMEE'24	Sumesh Chandran	E3S Web of Conferences
5.	Biodegradable Polymer Biomaterials for Tissue Engineering Applications: A Critical Review	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452901051">https://doi.org/10.1051/e3sconf/202452901051</a>	ICSMEE'24	Lijosh Mathew	E3S Web of Conferences
6.	Biomass and Operational Initiatives for Sustainable Bioenergy Generation	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452902014">https://doi.org/10.1051/e3sconf/202452902014</a>	ICSMEE'24	Mariya Stephen	E3S Web of Conferences
7.	Employing Piezoelectricity to Generate Sustainable Energy with Green Harmonics	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452902017">https://doi.org/10.1051/e3sconf/202452902017</a>	ICSMEE'24	Meera Panicker	E3S Web of Conferences
8.	Algal Biofuels: Unveiling the Potential of Seaweed in Renewable Energy Production	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452902018">https://doi.org/10.1051/e3sconf/202452902018</a>	ICSMEE'24	Jaleel P. K	E3S Web of Conferences
9.	Pioneering Efficient Blockchain in IoT: A Review of Tailored Protocols for Modern Devices	Published	November 2023	10.1109/RASSE60029.2023.10363557	IEEE International Conference on Recent Advances in Systems Science and Engineering (RASSE)	Neethan Elizabeth Abraham	IEEE
10.	IoT based Solar Powered Air Purifier with Air Quality Monitoring System,	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452904016">https://doi.org/10.1051/e3sconf/202452904016</a>	ICSMEE'24	Dr. Abraham C. G	E3S Web of Conferences
11.	IoT based Solar Powered Air Purifier with Air Quality Monitoring System,	Published	June 2024	Vol 529 <a href="https://doi.org/10.1051/e3sconf/202452904016">https://doi.org/10.1051/e3sconf/202452904016</a>	ICSMEE'24	Aparna Jose	E3S Web of Conferences



(iii) **Details of the book publication:**

Sl. No.	Name of the Book	Author(s) Name	Name of the Publisher	ISBN Number	Year of Publishing
1	Infinite Intelligence: A Practical Approach to Deep Learning	Dr. Deepthy Mary Alex	Libro International Publishers	978-81-975192-7-7	2024

(iv) **Details of the Publication of Manuals:**

Sl. No.	Name of the manual	Author(s) Name	Name of the Publisher	Year of Publishing
1.	NIL			
2.				
3.				

**6.6. Consultancy activities**

Sl.No.	Department	Name of the Consultancy work (Training courses / Testing / Consultancy)	No. of Works undertaken	Amount earned
1	NIL			
<b>Total</b>				-

**6.7. Patents applied**

- a. *No. of projects applied for patents: 8*
- b. *No. of projects/models accepted for patent: Nil*
- c. *No. of projects/models under process to be applied for patent: Nil*
- d. *Details of the patents awarded : Nil*

e. **Projects published in IPR Journals:**

Sl.No.	Name of the Project	Department
1	Smart Sensor Network for Efficient Energy Management in Smart Grids	ECE
2	Enhancing Energy Efficiency in Internet of Things Applications Through Integrated Circuit Optimization	ECE
3	Secure Communication Protocol for Internet of Things (IOT) Networks	ECE
4	Efficient Spectrum Allocation Technique for Cognitive Radio Networks	ECE
5	Advancing Medical Imaging Quality and Diagnostic Precision Through Enhanced Processing Techniques	ECE
6	Advancing Noise Reduction for Enhanced Signal Integrity in Data Transmission with Innovative	ECE
7	Elevating Performance with Next-Gen Modulation Schemes for Enhanced Connectivity and Data Transfer	ECE
8	Dynamic Antenna Array Optimization for Next-Generation 5G Wireless Communication Networks	ECE

### 6.8. New Laboratory/ Research Centre Development

Sl.No.	Department	Type of the laboratory (New Laboratory / Research Centre)	Name of the new laboratory/Research Centre established	Total investment on laboratories Rs.
NIL				

### 6.9. Research Centre activities

- a. *Total No. recognised Research Guides available at present: 0*
- b. *Total No. of MLMCE Faculty registered for doing Ph.D. at present: 04*
- c. *Total No. of outside Faculty registered for doing Ph.D. at present: NIL*
- d. *Total No. of Ph.Ds. awarded under your research Department – Till date: 1*

*(i) Ph.D. Guidance details:*

Sl. No.	Name of the approved Research Guide	No. of MLMCE faculty Registered	No. of Outside faculty Registered	Total No. of MLMCE faculty Registered Till date	Total No. of Outside faculty Registered Till date	No. of Ph.Ds Awarded Under his guidance	Total No. of Ph.Ds awarded Under his guidance Till date
1.	Nil						

*(ii) Ph.Ds Awarded during this academic year only*

Sl. No.	Name of the Research scholar	Name of the Guide, and Department	Name of the Research centre	Date of Viva- voce examination	Title of the Thesis	Area of the specialisation
			NA			

### 7. Extension Activities

Particulars	Count
Number of Awards and recognitions received for extension activities from government non government recognized bodies	Nil
Number of Training programmes /Social activities such as NSS/NCC organized/conducted	
Number of students participating in extension activities	

#### 7.1. Training programmes /Social activities such as NSS/NCC organized/conducted by the Department for community/ outside people

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	In Association with	Amount sanctioned	Nos. participated
	NIL					

**7.2. Awards and recognitions received for extension activities from government non government recognized bodies**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	Awards Received
1			NIL	

**8. Collaboration**

Particulars	Count
Number of active MoU's in the department	7
Number of MoU Signed during this year	1
Number of students benefitted through that MoU's	90

**a. Details of MoU**

Sl.No.	Department	MoU signed with (Name & Address of the Company)	Validity Period From	Purpose
1.	ECE	University of Arad	2022	Exchange of faculties, researchers & students, training, Publications, Academic programs & research projects
2.	ECE	SREE MINNIYAL RAGU ENTERPRISES SIVAKASI	2021	INDUSTRIAL SUPPORT LAB
3	ECE	Adfolks Accelerate digital	2021	Industrial visit, trainings
4	ECE	Kerala state information technology infrastructure limited	2018	Equipments
5	ECE	Technovia Innovative Solutions	2021	Trainings
6	ECE	Maven siliconsoftech private limited	2021	VLSI Trainings & related services
7	ECE	Facein Technologies	2024	Trainings & placement support

**9. Other Cell Activities**

**9.1. Professional body /Chapter / NSS/NCC /RRC activities**

Sl.No.	Name of the Department	Name of the Professional bodies attached in your departments	Name of the Staff incharge of Professional Body	No. of activities conducted
1.	ECE	IETE	Ms.Aparna Jose	3

**a. Details of the professional body activities:**

Name of the professional body : IETE-MLMCE STUDENTS' CHAPTER  
 Name and Designation of the Staff Incharge: Ms.Aparna Jose ,Assistant Professor  
 No. of members in the professional body: Faculty : 1 Students : 70  
 Activities of the current academic year:3

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/ Sponsored by	Amount sanctioned by the funding agency/sponsorship
1	18.04.2024-19.04.2024	International Conference on "Recent Trends in VLSI and Communication Systems ICRTVC'24"	Dr.Lavanya Settipalli.IIT,Kottayam	IETE	-
2	21.03.2024	FDP on "Intelligent Future: Unlocking the Potential of Artificial Intelligence"	Dr.M Pallikonda Rajasekaran,Professor,KAR E Dr.G Jyothish Lal,Dr.B Premjith,Faculty CEN,Coimbatore Dr.Soumya, Associate professor, CEN,Coimbatore	IETE	-
3	03.07.2023 - 07.07.2023	Fighting Data Bias & Ethical AI –a Collective Responsibility	Dr.M V Rajesh Vice chairman,IETE Kochi	IETE	

**b. Details of any awards and other recognitions won by the Cell: NIL**

**10. Start-up details**

Sl. No.	Date	Name of the Company	Name of the Team leaders
1		NIL	



**MANGALAM COLLEGE OF ENGINEERING**  
(Accredited by NAAC A Grade)

**DEPARTMENT OF COMPUTING & ARTIFICIAL  
INTELLIGENCE**

**ANNUAL REPORT  
2023-2024**

(All the activities held between July 2023- June 2024)

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8	Collaboration	10
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**1. Faculty participation related to curriculum development, BOS Member and KTU auditing member**

S. No	Name of the Faculty	Role of Participation
1	NIL	NIL

**2. Program Organized in the Department**

Particulars	Count
Number of Add on /Certificate programs organized	02
Number of students participated in Certificate/ Add-on programs	60
Number of students participated in subject related Certificate or Add-on programs	30
Number of Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability	NIL
Number of project work/field work/internship organized	113
Number of students participated in the project work/field work/internship organized	113

**2.1. Add on/Certificate Programs organized in the department (including GATE, IELTS coaching etc.,)**

S. No	Sem	Details of the Program	Details of the Speaker	No of Participants
1	NA	Python for Data science	Mr.Abhijith M	30
2	NA	Introduction to MATLAB	Mr.Benjamin A Jacob	30
<b>Total No.of Participants</b>				60

**2.2. Subject related Add on/Certificate Programs organized in the department**

S. No	Date	Details of the Program	Details of the Speaker	No of Participants
1.	NIL			
<b>Total No.of Participants</b>				NIL

**2.3. Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability**

S. No	Date	Details of the Program	Details of the Speaker	Relevance of the subject	No of Participants
1	NIL				
<b>Total No.of Participants</b>					NIL

**2.4. Programs organized in the department related to experiential learning through project work/field work/internship during the year**

S. No	Relevance of the Program	Total no of programs	No of Participants
1	Field visit	3	105
2	Project work	6	23
3	Internship	4	4
4	Industrial visit	3	105
<b>Total</b>			

### 3. Students Performance

Particulars	Count
Number of outgoing students placed	NA
Number of outgoing student progression to higher education	NA
Number of students qualifying in state/ national/ international level examinations	NA
Number of events participated by students in sports/cultural activities at university/state/national / international level	Nil
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level	Nil

#### 3.1. Students Placement details

S. No	Name of the student	Name of the company placed	Avg. Salary per annum
1	NA	NA	NA

#### Students Higher studies details

S. No	Name of the student	Choice of Course	Name of the Institute
1	NA		NA
Total no of students			

#### 3.2. Students progression in state/ national/ international level examinations

S. No	Name of the student	Qualifying Exam
1	NIL	
Total no of students		0

#### Student Participation details

##### a. Prizes/Medals/Positions Achieved by Students

(Programmes Held MLMCE & Other Colleges)

Sl. No.	Name of the Students	Class	Title of the Paper / Project/ symposium/ etc	Oragnizer of the event	Position obtained (I, II, III etc)
1	NIL				

\* Significant prizes won by the students in paper presentation, projects etc may be highlighted

b. Total No. of prizes won by the students in paper presentation: Nil

c. Total No. of prizes won by the students for quiz, technical contest, projects etc: 5

d. Students Projects sanctioned

Sl. No.	Name of the Student(s) and year of study	Name of the Guide	Title of the Project	Sponsorin g Agency	Sanctioned Date	Sponsored amount
	NIL					

### 4. News Letters & Magazine

Particulars	Count
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Number of News letters	2
Number of Magazine	0

Sl. No.	Name of the News Letter/Magazine	Volume	Month of Release
1.	Chatbot	2	02/11/2023
2.	Chatbot	3	08/02/2024

### 5. Faculty/Staff Development Activities

Particulars	Count
Number of programs such as TTP/ SDP/FDP / workshop etc attended by faculties	11
Number of days attended by faculties	63
Number of faculties provided financial support for attending SDp/STTP/FDP	2
Number of training programmes attended by technical staffs	Nil
Number of professional development /administrative training programs organized by the department for teaching and non-teaching staff during	Nil

### Quality improvement programmes

(i) *Details of STTP/ SDP/FDP / workshop etc attended by faculty :*

Name of the Faculty	Type of the Programme (STTP/SDP/FDP/etc)	Title of the program	Period (From - To)	No. Of Days	Name of the organizer	Sponsor of the program	Financial Support Provided Yes/No
Raseena Yousef	FDP	AI trends and industry use cases-contemporary and Future	25.9.2023 - 30.9.2023	6	Department of computer applications,FISAT	In association with TCS	No
Aiswarya Mohan K	FDP	AI trends and industry use cases-contemporary and Future	25.9.2023 - 30.9.2023	6	Department of computer applications,FISAT	In association with TCS	No
Sneha Sebastian	FDP	AI trends and industry use cases-contemporary and Future	25.9.2023 - 30.9.2023	6	Department of computer applications,FISAT	In association with TCS	No
Pinky M S	FDP	AI trends and industry use cases-contemporary and Future	25.9.2023 - 30.9.2023	6	Department of computer applications,FISAT	In association with TCS	No

Susanna Sajan	FDP	Recent trends in Biomedical applications using AI	29.1.24-2.2.2024	5	Dept.of Biomedical engineering,peters institute of higher education and research,avadi, Chennai	In association with centre for faculty development	No
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Sneha sebastian	FDP	AI evolution:from foundations to generative AI	29.1.24-2.2.2024	5	TechSaksham	Microsoft,SAP and Aicte	No
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Pinky M S	FDP	AI evolution:from foundations to generative AI	29.1.24-2.2.2024	5	TechSaksham	Microsoft,SAP and Aicte	No
Aiswarya Mohan K	FDP	AI evolution:from foundations to generative AI	29.1.24-2.2.2024	5	TechSaksham	Microsoft,SAP and Aicte	No
Aiswarya Mohan K	FDP	IoT with AI and ML	26.2.24-2.3.24	6	Dept.of CSE, academy of technology,west bengal	IEEE ComSoc, kolkata chapter	No
Pinky M S	FDP	IoT with AI and ML	26.2.24-2.3.24	6	Dept.of CSE, academy of technology,west bengal	IEEE ComSoc, kolkata chapter	No
Sneha sebastian	FDP	IoT with AI and ML	26.2.24-2.3.24	6	Dept.of CSE, academy of technology,west bengal	IEEE ComSoc, kolkata chapter	No
<b>Total No. of days attended</b>					<b>182</b>	<b>Total No. of Faculties Provided with financial support</b>	<b>Nil</b>

(ii) *Details of the training programmes attended by non-teaching:*

Sl.No.	Name of the faculty	Title of the Training programme	Organizing Institute	Period (From - To)	No of Days
1			NIL		
<b>Total No. of days attended</b>					<b>NIL</b>

**SDP/FDP/STTP Organized**

Sl. No.	Dept	Type of programme	Title of the program	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
1.		NIL					

### 5.1. Faculty Higher studies

Sl.No.	Department	Particulars	No.of Faculty
1		NIL	0
2			0
Total			0

#### (i) Details of faculty registered for Ph.D /Post-Doctoral-Fellowship

Sl.No.	Name of the faculty	Registered under which Department	Name of the Research Guide	Date of Registration	Name of the University	Registration No.	Status
1.	NIL						

#### (ii) Details of faculty completed their Ph.D /Post-Doctoral-Fellowship

Sl. No.	Name of the faculty with designation	Name of the Guide, and Department	Name of the centre	Date of Viva-voce examination	Title of the Thesis	Area of the specialisation
1.	NIL					

### 5.2. Invited / Guest lecturers delivered by the faculty

Sl. No.	Name of the faculty	Topic	Details of the programme (Program Name College, Dept)	Date
1	NIL			

### 5.3. Details of any awards and other recognitions won by the faculty

Sl.No.	Department	Name of the Faculty	Designation	Details of the Award / Other Recognitions received by faculty with date and venue
1	NIL			

### Research and Innovations

Particulars	Count
Total Grants from Government and non-governmental agencies for research projects	NIL
Number of Seminars/conferences/workshops conducted	NIL
Number of SDP/STTP/FDP conducted	NIL
Number of research papers in the Journals notified on UGC website	1
Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings (including manuals)	1
Number of ongoing/completed consultancy projects	NIL
Number of Patents	1
Number of Ph.D guides in the department	NIL
Number of Ph.D doing faculties in the department	1
Number of Ph.D scholars in the department research centre	NIL

### 5.4. Research Projects/Proposals applied

Sl. No.	Department	Name of the funding Agency (AICTE/DST/MNRE/etc)	Name of the Scheme (TAPTEC, MODROB, Workshop, Seminar Grant etc)	Number of Projects /Proposals applied	Cost of the Projects/ proposal applied Rs.
1.		NIL			
<b>Total</b>					

### 5.5. Ongoing Research Projects/Proposals

Sl. No	Name of the project	Sanctioned by	Title of the Project	Name and Designation of the PI	Amount Sanctioned (Rs.in Lakhs)	Period From- To (Month/Yr.)	Status of the project
1.							NIL

### 5.6. Research Projects/Proposals completed

Sl. No	Name of the Scheme	Sanctioned by	Title of the Project	Name and Designation of the Chief Co-Ordinator	Amount Sanctioned (Rs.in Lakhs)	Amount utilised (Rs.in lakhs)	Period From- To (Month/Yr.)	Whether utilisation certificate submitted or not
NIL								

### 5.7. Workshop/Seminars/International conference Organized

Sl. No.	Dept	Type of programme	Title of the Seminar/ Conferences	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
1.	AM	Hands on workshop	Machine learning using Python	22-11-2023 to 23-11-2023	53	Department	15000/-

\*Mention MLMCE-incase of sponsorship provided by college

### Publication details of faculty

(i) *Details of the Publication in National / International Reputed Journals:*

S. No	Title of the Paper	Name of the Journal	Date, Month and Year of publication	Vol.No. and Page No. DOI	Name of the Author	National/ International	Indexing
1.	NIL						

(ii) *Details of the paper presented and published in National / International conference proceedings*

S. No	Title of the Paper	Accepted/ Presented /Published	Date, Month and Year of publication	Vol. No. and Page No.	Name of the Conference	Name of the Authors	Proceedings Name
1.	NIL						

*Details of the book publication:*

Sl. No.	Name of the Book	Author(s) Name	Name of the Publisher	ISBN Number	Year of Publishing
1	NIL	NIL	NIL	NIL	

(iii) *Details of the Publication of Manuals:*

Sl. No.	Name of the manual	Author(s) Name	Name of the Publisher	Year of Publishing
1.	NIL			

**5.8. Consultancy activities**

Sl.No.	Department	Name of the Consultancy work (Training courses / Testing / Consultancy)	No. of Works undertaken	Amount earned
1	NIL			
<b>Total</b>				

**5.9. Patents applied**

- a. *No. of projects applied for patents: Nil*
- b. *No. of projects/models accepted for patent: Nil*
- c. *No. of projects/models under process to be applied for patent: Nil*
- d. *Details of the patents awarded :*

Sl.No.	Department	Title of the Patent	Patent No.	Date of Grant	Name(s) of the Patentee
1			NIL		

e. *Projects published in IPR Journals:*

Sl.No.	Name of the Project	Department
	NIL	

**5.10. New Laboratory/ Research Centre Development**

Sl.No.	Department	Type of the laboratory (New Laboratory / Research Centre)	Name of the new laboratory/Research Centre established	Total investment on laboratories Rs.
NIL				

**Research Centre activities**

- a. *Total No. recognised Research Guides available at present: 01*
- b. *Total No. of MLMCE Faculty registered for doing Ph.D. at present: 01*
- c. *Total No. of outside Faculty registered for doing Ph.D. at present: NIL*
- d. *Total No. of Ph.Ds. awarded under your research Department – Till date: NIL*

(i) *Ph.D. Guidance details:*

Sl. No.	Name of the approved Research Guide	No. of MLMCE faculty Registered	No. of Outside faculty Registered	Total No. of MLMCE faculty Registered Till date	Total No. of Outside faculty Registered Till date	No. of Ph.Ds Awarded Under his guidance	Total No. of Ph.Ds awarded Under his guidance Till date
1.	NIL	NIL	Nil	1	Nil	Nil	Nil

## (ii) Ph.Ds Awarded during this academic year only

Sl. No.	Name of the Research scholar	Name of the Guide, and Department	Name of the Research centre	Date of Viva-voce examination	Title of the Thesis	Area of the specialisation
1	NIL					

**6. Extension Activities**

Particulars	Count
Number of Awards and recognitions received for extension activities from government non government recognized bodies	Nil
Number of Training programmes /Social activities such as NSS/NCC organized/conducted	1
Number of students participating in extension activities	3

**6.1. Training programmes /Social activities such as NSS/NCC organized/conducted by the Department for community/ outside people**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	In Association with	Amount sanctioned	Nos. participated
1	NIL					

**6.2. Awards and recognitions received for extension activities from government non government recognized bodies**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	Awards Received
1	NIL			

**7. Collaboration**

Particulars	Count
Number of active MoU's in the department	1
Number of MoU Signed during this year	2023
Number of students benefitted through that MoU's	113

*a. Details of MoU*

Sl.No.	Department	MoU signed with (Name & Address of the Company)	Validity Period From	Purpose
1.	Artificial Intelligence and Machine learning	Readteam Hacker Academy Pvt Ltd. 1st Floor, Kariyappalli Tower, Edapally, Ernakulam	19/12/2023	Training and Development of students

**8. Other Cell Activities****8.1. Professional body /Chapter / NSS/NCC /RRC activities**

Sl.No.	Name of the Department	Name of the Professional bodies attached in your departments	Name of the Staff incharge of Professional Body	No. of activities conducted
1.	NIL			

*a. Details of the professional body activities:*

Name of the professional body :

Name and Designation of the Staff Incharge:

No. of members in the professional body: Faculty : Students : Nil

Activities of the current academic year

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/ Sponsored by	Amount sanctioned by the funding agency/sponsorship
1	NIL				

Name of the professional body: R

Name and Designation of the Staff Incharge:

No. of members in the professional body: Faculty: 0 Students : Nil

Activities of the current academic year

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/ Sponsored by	Amount sanctioned by the funding agency/sponsorship
1	NIL			NIL	

*b. Details of any awards and other recognitions won by the Cell: NIL*

Sl.No.	Name of the Faculty / Students with department	Details of the Award / Other Recognitions received by faculty with date and venue
NIL		



**MANGALAM COLLEGE OF ENGINEERING**  
(Accredited by NAAC A Grade)

**DEPARTMENT OF CHEMICAL ENGINEERING**  
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**1. Faculty participation related to curriculum development, BOS Member and KTU auditing member**

S.No	Name of the Faculty	Role of Participation
1		NIL

**2. Program Organized in the Department**

Particulars	Count
Number of Add on/Certificate programs organized	4
Number of students participated in Certificate/Add-on programs	46
Number of students participated in subject related Certificate or Add-on programs	46
Number of Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability	NIL
Number of project work/fieldwork/internship organized	3
Number of students participated in the project work/fieldwork/internship organized	78

**2.1. Add on /Certificate Programs organized in the department (including GATE,IELTS coaching etc.,)**

S. No	Sem	Details of the Program	Details of the Speaker	No of Participants
1			Nil	
<b>Total No. of Participants</b>				

**2.2. Subject related Add on/Certificate Programs organized in the department**

S. No	Date	Details of the Program	Details of the Speaker	No of Participants
1	21/08/2023	Flash distillation in chemical & process industries	Dr. Lovey Jacob (Associate Professor CH, MLMCE)	27
2	09/10/2024	Chemical Engineering Fundamentals	Ms. Arunekha C (Assistant Professor CH, MLMCE)	19
3	20/11/2023	Introduction to Heat transfer Engineering	Ms. Nayana V T (Assistant Professor CH, MLMCE)	27
4	13/05/2024	Introduction to Water Management	Ms. Smrithy E Mohan (Assistant Professor CH, MLMCE)	19
<b>Total No. of Participants</b>				46

**2.3. Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability**

S. No	Date	Details of the Program	Details of the Speaker	Relevance of the subject	No of Participants
		Nil			
<b>Total No. of Participants</b>					

**2.4. Programs organized in the department related to experiential learning through project work/field work/internship during the year**

S. No	Relevance of the Program	Total no of programs	No of Participants
1	Field visit	NIL	NIL
2	Project work	NIL	NIL
3	Internship	NIL	NIL
4	Industrial visit	3	78
	<b>Total</b>	<b>3</b>	<b>78</b>

**3. Students Performance**

Particulars	Count
Number of outgoing students placed	NA
Number of outgoing student progression to higher education	NA
Number of students qualifying in state/national/ international level examinations	NIL
Number of events participated by students in sports/cultural activities at university/state/national/international level	NIL
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national /international level	NIL

**3.1. Students Placement details - NA**

S. No	Name of the student	Name of the company placed	Avg. Salary per annum
1	NA		

**3.2. Students Higher studies details -NA**

S. No	Name of the student	Choice of Course	Name of the Institute
1	NA		

**3.3. Students progression in state/national/ international level examinations**

S. No	Name of the student	Qualifying Exam
1	NIL	
	<b>Total no of students</b>	<b>0</b>

**3.4. Student Participation details**

*a. Prizes/Medals/Positions Achieved by Students*  
(Programmes Held at MLMCE & Other Colleges)

Sl. No.	Name of the Students	Class	Title of the Paper/Project/symposium/ etc	Oragnizer of the event	Position obtained (I, II, III etc)
1	Arya Sasi	S5	SAPTHARANG'24 LIGHT MUSIC	MLMCE	II

2	Diya Shibu	S5	SAPTHARANG'24 DANCE CHOREOGRAPHY	MLMCE	I
3	Anjali S	S5	SAPTHARANG'24 DANCE CHOREOGRAPHY	MLMCE	I
4	Anjali S	S5	SAPTHARANG'24 STEP & SYNCHRO	MLMCE	II
5	Anagha Sunilkumar	S3	SAPTHARANG'24 PEOM WRITING ENGLISH	MLMCE	II
6	Blesson P Johnson	S3	SAPTHARANG'24 THEME DANCE BOYS	MLMCE	III
7	Anudeep M P	S3	SAPTHARANG'24 THEME DANCE BOYS	MLMCE	III
8	Thejus J	S3	SAPTHARANG'24 THEME DANCE BOYS	MLMCE	III
9	Jeevan Reji	S3	SAPTHARANG'24 THEME DANCE BOYS	MLMCE	III
10	Anagha Sunilkumar	S3	SAPTHARANG'24(MIME)	MLMCE	III
11	Krishnendu P S	S3	SAPTHARANG'24(MIME)	MLMCE	III
12	Adhithya Anil	S3	SAPTHARANG'24(MIME)	MLMCE	III
13	Malavika Prabhakaran	S3	SAPTHARANG'24(MIME)	MLMCE	III
14	Aneena Reji	S3	SAPTHARANG'24(MIME)	MLMCE	III
15	Shamla N	S3	SAPTHARANG'24(MIME)	MLMCE	III
16	Sanusha Umesh	S2	SAPTHARANG'24 THEME DANCE GIRLS	MLMCE	II
17	Dhanalekshmi B	S2	SAPTHARANG'24 THEME DANCE GIRLS	MLMCE	II
18	Thasni T	S2	SAPTHARANG'24 THEME DANCE GIRLS	MLMCE	II
19	Aneeta Sebastian	S2	SAPTHARANG'24 OPPANA	MLMCE	II
20	Chris Savio	S2	SAPTHARANG'24 STEP & SYNCHRO	MLMCE	II
21	Midhun Manoj	S2	RACE 2K23 SHOTPUT (BOYS)	MLMCE	II
22	Helan Rose	S2	RACE 2K23 4*400 Mtr RELAY (GIRLS)	MLMCE	III
23	Helan Rose Bijoy	S2	RACE 2K23 1500 Mtr RACE (GIRLS)	MLMCE	III
24	Afinah Noushad	S2	RACE 2K23 BADMINTON SINGLES (GIRL)	MLMCE	II
25	Afinah Noushad	S2	RACE 2K23 BADMINTON DOUBLES (GIRLS)	MLMCE	II

\*Significant prizes won by the students in paper presentation, projects etc may be highlighted

b. Total No. of prizes won by the students in paper presentation: Nil

c. Total No. of prizes won by the students for quiz, technical contest, projects etc: Nil

d. Students Projects sanctioned: Nil

Sl. No.	Name of the Student(s) and year of study	Name of the Guide	Title of the Project	Sponsoring Agency	Sanctioned Date	Sponsored amount
NIL						

#### 4. News Letters& Magazine

Particulars	Count
Number of News letters	0
Number of Magazine	0

Sl. No.	Name of the News Letter/ Magazine	Volume	Month of Release
NIL			

#### 5. Faculty/Staff Development Activities

Particulars	Count
Number of programs such as TTP/ SDP/FDP /workshop etc attended by faculties	3
Number of days attended by faculties	15
Number of faculties provided financial support for attending SDP/STTP/FDP	Nil
Number of training programmes attended by technical staffs	Nil
Number of professional development/ administrative training programs organized by the department for teaching and non-teaching staff	Nil

##### 5.1. Quality improvement programmes

(i) Details of STTP/SDP/FDP/ workshop etc attended by faculty :

S.No	Name of the Faculty	Type of the Programme (STTP/SDP/FDP/etc)	Title of the program	Period (From-To)	No. of Days	Name of the organizer	Sponsor of the program	Financial Support Provided Yes/No
1	Dr. Lovey Jacob	FDP	Soft skill for professional excellence	10/06/2024 to 14/06/2024	5	Department of Chemical Engineering. Government Engineering College, Kozhikode	Indian Institute of Chemical Engineers, Kozhikode regional centre.	NO
2	Ms. Nayana V T	FDP	Soft skill for professional excellence	10/06/2024 to 14/06/2024	5	Department of Chemical Engineering. Government Engineering College, Kozhikode	Indian Institute of Chemical Engineers, Kozhikode regional centre.	NO

3	Ms. Arunekha C	FDP	Soft skill for professional excellence	10/06/2024 to 14/06/2024	5	Department of Chemical Engineering. Government Engineering College, Kozhikode	Indian Institute of Chemical Engineers, Kozhikode regional centre.	NO
<b>Total No. of days attended</b>					<b>15</b>	<b>Total No. of Faculties Provided with financial support</b>		Nil

(ii) *Details of the training programmes attended by non-teaching:*

Sl. No.	Name of the faculty	Title of the Training programme	Organizing Institute	Period (From-To)	No of Days
NIL					
<b>Total No. of days attended</b>					Nil

### 5.2. SDP/FDP/STTP Organized

Sl. No.	Dept	Type of programme	Title of the program	Date From-To	No. of Participants	Sponsored by	Sanctioned Amount
1	Chemical	FDP	FDP on Soft Skills for Professional Excellence	15/04/2024 - 17/04/2024	17	NIL	NIL

### 5.3. Faculty Higher studies

Sl.No.	Department	Particulars	No.of Faculty
1	Chemical	No. of Faculty sponsored for Ph.D. /Post-DoctoralFellowship	0
2		No. of faculty completed their Ph.D	0
Total			0

(i) *Details of faculty registered for Ph.D /Post-Doctoral-Fellowship*

Sl. No.	Name of the faculty	Registered under which Department	Name of the Research Guide	Date of Registration	Name of the University	Registration No.	Status
NIL							

(ii) *Details of faculty completed their Ph.D /Post-Doctoral-Fellowship*

Sl. No.	Name of the faculty with designation	Name of the Guide, and Department	Name of the centre	Date of Viva-Voce examination	Title of theThesis	Area of the specialisation
NIL						

### 5.4. Invited/Guest lecturers delivered by the faculty

Sl. No.	Name of the faculty	Topic	Details of the programme (Program, Name, College, Dept)	Date
NIL				

### 5.5. Details of any awards and other recognitions won by the faculty

Sl.No.	Department	Nameof the Faculty	Designation	Details of theAward/ Other Recognitions received by faculty with date and venue
NIL				

## 6. Research and Innovations

Particulars	Count
Total Grants from Government and non-governmental agencies for research projects	NIL
Number of Seminars/ conferences/ workshops conducted	2
Number of SDP/STTP/FDP conducted	1
Number of research papers in the Journals notified on UGC website	NIL
Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings (including manuals)	NIL
Number of ongoing/completed consultancy projects	NA
Number of Patents	NIL
Number of Ph.D guides in the department	0
Number of Ph.D doing faculties in the department	0
Number of Ph.D scholars in the department research centre	0

### 6.1. Research Projects/ Proposals applied

Sl. No.	Department	Name of the funding Agency (AICTE/DST/MNRE/etc)	Name of the Scheme(TAPTEC,MO DROB, Workshop, Seminar Grantetc)	Number of Projects /Proposals applied	Cost of the Projects/ proposal applied Rs.
NIL					
Total					

### 6.2. Ongoing Research Projects/Proposals

Sl. No	Name of the project	Sanctioned by	Title of the Project	Name and Designation of the PI	Amount Sanctioned (Rs.inLakhs)	PeriodFrom-To(Month/ Yr.)	Status of the project
NIL							

### 6.3. Research Projects/ Proposals completed

Sl. No	Name of the Scheme	Sanctioned by	Title of the Project	Name and Designation of the Chief Co-Ordinator	Amount Sanctioned (Rs.in Lakhs)	Amount utilised (Rs.in lakhs)	PeriodFrom - To(Month/ Yr.)	Whether utilisation certificate Submitted or not
NIL								

### 6.4. Workshop/Seminars/International conference Organized

Sl. No.	Dept	Type of programme	Title of the Seminar/ Conferences	Date From –To	No of Students Participated	Sponsored by	Sanctioned Amount
1	Chemical	Webinar	Introduction to Oil and Gas Industries	30/10/2023	74	NIL	NIL
2	Chemical	Webinar	Heat Transfer Operations	16/05/2024	80	NIL	NIL

\*Mention MLMCE in case of sponsorship provided by college

## 6.5. Publication details of faculty

(i) *Details of the Publication in National /International Reputed Journals: NIL*

S. No	Title of the Paper	Name of the Journal	Date, Month and Year of publication	Vol. No. and Page No. DOI	Name of the Author	National/ International	Indexing
NIL							

(ii) *Details of the paper presented and published in National / International conference proceedings: NIL*

S. No	Title of the Paper	Accepted/ Presented /Published	Date,Month and Year of publication	Vol.No. and Page No.	Name of the Conference	Name of the Authors	Proceedings Name
NIL							

(iii) *Details of the book publication: NIL*

Sl. No.	Name of the Book	Author(s)Name	Name of the Publisher	ISBNNumber	Year of Publishing
NIL					

(iv) *Details of the Publication of Manuals: NIL*

Sl. No.	Name of the manual	Author(s) Name	Name of the Publisher	Year of Publishing
NIL				

## 6.6. Consultancy activities

Sl.No.	Department	Name of the Consultancy work (Training courses / Testing /Consultancy)	No. of Works undertaken	Amount earned
NIL				

## 6.7. Patents applied

a. *No.of projects applied for patents: 1*

b. *No.of projects/models accepted for patent: Nil*

c. *No. of projects/models under process to be applied for patent: Nil*

d. *Details of the patents awarded:*

Sl.No.	Department	Title of the Patent	Patent No.	Date of Grant	Name(s) of the Patentee
NIL					

e. *Projects published in IPR Journals:*

Sl.No.	Name of the Project	Department
NIL		

## 6.8. New Laboratory/ Research Centre Development



Sl.No.	Department	Type of the laboratory (New Laboratory /Research Centre)	Name of the new laboratory/Research Centre established	Total investment on laboratories Rs.
NIL				

### 6.9. Research Centre activities

- a. *Total No. recognised Research Guides available at present: NIL*
- b. *Total No. of MLMCE Faculty registered for doing Ph.D. at present: NIL*
- c. *Total No. of outside Faculty registered for doing Ph.D. at present: NIL*
- d. *Total No. of Ph.Ds. awarded under your research Department–Till date: NIL*

(i) *Ph.D.Guidance details:*

Sl. No.	Name of the approved Research Guide	No. of MLMCE faculty Registered	No. of Outside faculty Registered	Total No. of MLMCE Faculty Registered Till date	Total No. of Outside faculty Registered Till date	No. of Ph.Ds Awarded Under his guidance	Total No. of Ph.Ds awarded Under his guidance Till date
1.	NIL						

(ii) *Ph.Ds Awarded during this academic year only*

Sl. No.	Name of the Research scholar	Name of the Guide, and Department	Name of the Research centre	Date of Viva-voce examination	Title of the Thesis	Area of the specialisation
1	NIL					

### 7. Extension Activities

Particulars	Count
Number of Awards and recognitions received for extension activities from government non government recognized bodies	Nil
Number of Training programmes /Social activities such as NSS/NCC organized/conducted	1
Number of students participating in extension activities	5

#### 7.1. Training programmes /Social activities such as NSS/NCC organized/conducted by the Department for community/outside people

Sl.No.	Name of the Programme	Extension/ Cell	Date (From-to)	InAssociation with	Amount sanctioned	Nos. participated
1	Nil					

#### 7.2. Awards and recognitions received for extension activities from government non-government recognized bodies

Sl.No.	Name of the Programme	Extension/ Cell	Date (From-to)	Awards Received
1	NIL			

### 8. Collaboration

Particulars	Count
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Number of active MoU's in the department	Nil
Number of MoU Signed during this year	Nil
Number of students benefitted through that MoU's	Nil

***a.Details of MoU***

Sl.No.	Department	MoU signed with (Name& Address of the Company)	Validity Period From	Purpose
1.	NIL			

**9. Other Cell Activities**

**9.1. Professional body/Chapter/NSS/NCC/RRC activities**

Sl.No.	Name of the Department	Name of the Professional bodies attached in your departments	Name of the Staff in charge of Professional Body	No. of activities conducted
1.	NIL			

***a. Details of the professional body activities:***

Name of the professional body:

Name and Designation of the Staff In charge:

No.of members in the professional body: Faculty: Nil Students: Nil

Activities of the current academic year;

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency /Sponsored by	Amount sanctioned by the funding agency/sponsorship
NIL					
Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/Sponsore d by	Amount sanctioned by the funding agency/sponsorship
NIL					

***b. Details of any awards and other recognitions won by the Cell : NIL***

Sl.No.	Name of the Faculty/Students with department	Details of the Award /Other Recognitions received by faculty with date and venue
NIL		



**MANGALAM COLLEGE OF ENGINEERING**  
(Accredited by NAAC A Grade)

**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING  
ANNUAL REPORT  
2023-2024**

(All the activities held between July 2023 - June 2024)

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**1. Faculty participation related to curriculum development, BOS Member and KTU auditing member**

S.No	Name of the Faculty	Role of Participation
1		

**2. Program Organized in the Department**

Particulars	Count
Number of Add on/Certificate programs organized	6
Number of students participated in Certificate/Add-on programs	20
Number of students participated in subject related Certificate or Add-on programs	105
Number of Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability	10
Number of project work/fieldwork/internship organized	14
Number of students participated in the project work/fieldwork/internship organized	36

**2.1. Add on /Certificate Programs organized in the department (including GATE,IELTS coaching etc.,)**

S. No	SEM	Details of the Program	Details of the Speaker	No of Participants
1	ODD/EVEN	AUTOCAD	MSME	20
<b>Total No. of Participants</b>				<b>20</b>

**2.2. Subject related Add on/Certificate Programs organized in the department**

S. No	Date	Details of the Program	Details of the Speaker	No of Participants
1	24/04/2024	Expert Talk on “Design of Photovoltaic Voltage system for industrial applications	Mr Liju Mathew	30
2	23/03/24	Expert Talk on” Introduction to AC fundamentals and 3 phase systems”	Ms. Remya V	90
3	23/03/24	Expert Talk on “Importance and Scope of Control System Engineering”	Dr. Arlene Davidson R	25
4	01/05/24	Expert Talk on “Cyber security challenges and mitigation in smart grid”	Dr. Sheril Arunli S	90
5	24/04/24	Expert Talk on “Design of Photovoltaic Voltage system for industrial applications”	Liju Mathew	25
6	24/4/24	Expert Talk on “one day hands on workshop on electrical system	Mr. Muhammed Sajin S	21

		<b>design”</b>		
<b>7</b>	<b>06/04/24</b>	<b>Expert talk on “Opportunities after Engineering.”</b>	<b>Mr. Manimohan Trinath</b>	<b>450</b>
<b>8</b>				
<b>9</b>				
<b>TOTAL</b>				<b>731</b>

### 2.3. Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability

<b>S. No</b>	<b>Date</b>	<b>Details of the Program</b>	<b>Details of the Speaker</b>	<b>Relevance Of the subject</b>	<b>No of Participants</b>
<b>1</b>	<b>06/04/24</b>	<b>Opportunities after Engineering</b>	<b>Mr. Manimohan Trinath</b>	<b>Career opportunities</b>	<b>450</b>
<b>2</b>	<b>05/04/24</b>	<b>Financial Management and Entrepreneurship</b>	<b>Mr. V K Adharsh</b>	<b>Sustainability</b>	<b>150</b>
<b>3</b>	<b>30/04/24</b>	<b>Unleashing the future in electrical system design</b>	<b>Er. Sandhya Sajeev</b>	<b>Career opportunity</b>	<b>104</b>
<b>Total No. of Participants</b>					<b>704</b>

### 2.4. Programs organized in the department related to experiential learning through project work/field work/internship during the year

<b>S. No</b>	<b>Relevance of the Program</b>	<b>Total no of programs</b>	<b>No of Participants</b>
1	Field visit	1	104
2	Project work	14	14
3	Internship	8	40
4	Industrial visit	2	50
	<b>Total</b>	<b>25</b>	<b>208</b>

## 3. Students Performance

<b>Particulars</b>	<b>Count</b>
Number of outgoing students placed	15
Number of outgoing student progression to higher education	1
Number of students qualifying in state/national/ international level examinations	nil
Number of events participated by students in sports/cultural activities at university/state/national/international level	19
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national /international level	23

### 3.1. Students Placement details

S. No	Name of the student	Name of the company placed	Avg. Salary per annum
1	VISHNU A S	BRAND INTERNATIONAL , +97125506631	240000
2	AKASH VARMA	BRAND INTERNATIONAL , +97125506631	240000
3	ANANDESHWER E S	RUCHAKA ENGINEERING, 9447741648	240000
4	ARATHI SIBI	RUCHAKA ENGINEERING, 9447741648	240000
5	ANANDHU PRAVEEN	RUCHAKA ENGINEERING, 9447741648	240000
6	JUSTIN PETER	RUCHAKA ENGINEERING, 9447741648	240000
7	SEBASTIAN K CHACKO	DATAPY,8848179883	240000
8	SUBIN M JOHN	DATAPY,8848179883	240000
9	LINTO MATHEW P JOHN	DATAPY,8848179883	240000
10	ABIN MATHEW	TOUCHQ SOFTWARE SOLUTIONS PVT.LTD, 9061587359	264000
11	ABHIJITH N SHENOY	BSS GREEN LIFE, +91 97474 23821	240000
12	JEFIN P JOSE	TOUCHQ SOFTWARE SOLUTIONS PVT.LTD 9061587359	264000
13	ASHIK K R	TOUCHQ SOFTWARE SOLUTIONS PVT.LTD 9061587359	264000
14	ASWIN KUMAR K S	DATAPY,8848179883	240000
15	SOORAJ MOHAN	RUCHAKA ENGINEERING, 9447741648	240000

### 3.2. Students Higher studies details -

S. No	Name of the student	Choice of Course	Name of the Institute
1	LIKHITHA S SHENOI	MTECH	ADI SHANKARA INSTITUTE OF ENGINEERING & TECHNOLOGY

### 3.3. Students progression in state/national/ international level examinations

S. No	Name of the student	Qualifying Exam
1		
	<b>Total no of students</b>	<b>nil</b>

### 3.4. Student Participation details

*a. Prizes/Medals/Positions Achieved by Students*  
(Programmes Held at MLMCE & Other Colleges)

Sl. No.	Name of the Students	Class	Title of the Paper/Project/symposium/ etc	Organizer of the event	Position obtained (I, II, III etc)
1	ELSA REJI	S2	RECITATION ENGLISH	MLMCE	II
2	FASEELA M B	S2	OPPANA	MLMCE	II
3	ARCHANA AKHILESH	S2	OPPANA	MLMCE	II
4	NELSON E S	S5	ADAPTUNE (BOYS)	MLMCE	I
5		S5	WESTERN SINGLE DANCE	MLMCE	I
6	ANJANA SANTHOSH		BHARATNATYAM	MLMCE	II
7			ADAPTUNE(GIRLS)	MLMCE	II
8			WESTERN SINGLE DANCE	MLMCE	II
9			DANCE CHOREOGRAPHY	MLMCE	II
10			WESTERN GROUP DANCE (GIRLS)	MLMCE	III
11			STEP N SYNCHRO	MLMCE	III
12	MIDHUN S BABU		NADAN PATTU	MLMCE	I
13	VISHNU A S	S8	NADAN PATTU	MLMCE	I
14	ANANDHU PRAVEEN	S8	NADAN PATTU	MLMCE	I
15	ADITHYAN S		CRICKET	MLMCE	II
16	ARJUN		FOOTBALL	MLMCE	II
17	SHIVA PRASAD		CRICKET	MLMCE	
18	AKASH VARMA	S8	BEST PAPER AWARD FOR ICSIEE 2024	MLMCE	I
19	ADHIYA MAJEED		BEST PAPER AWARD FOR ICSIEE 2024	MLMCE	I

\*Significant prizes won by the students in paper presentation, projects etc may be highlighted

*b. Total No. of prizes won by the students in paper presentation: 2*



c. Total No. of prizes won by the students for quiz, technical contest, projects etc: 3

d. Students Projects sanctioned: Nil

Sl. No.	Name of the Student(s) and year of study	Name of the Guide	Title of the Project	Sponsoring Agency	Sanctioned Date	Sponsored Amount
NIL						

#### 4. News Letters Magazine

Particulars	Count
Number of Newsletters	1
Number of Magazine	1

Sl. No.	Name of the Newsletter/ Magazine	Volume	Month of Release
1	Electra	11	December

#### 5. Faculty/Staff Development Activities

Particulars	Count
Number of programs such as TTP/ SDP/FDP /workshop etc attended by faculties	22
Number of days attended by faculties	5 day/ staff
Number of faculties provided financial support for attending SDP/STTP/FDP	0
Number of training programmes attended by technical staffs	0
Number of professional development/ administrative training programs organized by the department for teaching and non-teaching staff	2

##### 5.1. Quality improvement programmes

(i) Details of STTP/SDP/FDP/ workshop etc attended by faculty :

S.No	Name of the Faculty	Type of the Programme (STTP/SDP/FDP/etc)	Title of the program	Period (From-To)	No. of Days	Name of the organizer	Sponsor of the program	Financial Support Provided Yes/ No
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1	PREETHI SEBASTIAN	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in Electrical Engineering	29/01/24 to 02/02/2024	5 days	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No
2	Dr.Reshma Gopi.R	Workshop	Embedded C and ARM Microcontrollers	6 Nov 23	65 hours	NIELIT Calicut and ARM in Association with NPTEL		No
3	Dr.Reshma Gopi.R	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in Electrical Engineering	29/01/24 to 02/02/2024	5	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No
4	Dr.Reshma Gopi.R	FDP	Deep learning	24 July 23	12 weeks	NPTEL		No
5	Dr.Honey Baby	FDP	Mathematical Advances in Electrical Engineering : Challenges and Exploration	18/06/24 to 22/06/24	5 days	MANGALAM COLLEGE OF ENGINEERING	Mangalam College of Engineering	No
6	Dr.Honey Baby	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in Electrical	29/01/24 to 02/02/2024	5	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No

			Engineering					
7	Dr.Honey Baby	FDP	"Control of Robotic Systems: Research Trends and Challenges"	05/02/2024 to 10/02/2024	6 days	Department of Electrical and Electronics Engineering, College of Engineering Perumon	Department of Electrical and Electronics Engineering, College of Engineering Perumon	No
8	Ms.Shoma Mani	FDP	Mathematical Advances in Electrical Engineering : Challenges and Exploration	18/06/24 to 22/06/24	5 days	MANGALAM COLLEGE OF ENGINEERING	Mangalam College of Engineering	No
9	Ms.Shoma Mani	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in Electrical Engineering	29/01/24 to 02/02/2024	5	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No
10	Ms.Aiswarya Chandran	FDP	Mathematical Advances in Electrical Engineering : Challenges and Exploration	18/06/24 to 22/06/24	5 days	MANGALAM COLLEGE OF ENGINEERING	Mangalam College of Engineering	No
11	Ms.Aiswarya Chandran	FDP	FDP on Unleashing the Sustainable	29/01/24 to 02/02/2024	5	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No

			e Developments and Future Trends in Electrical Engineering					
12	Ms.Jolly George	FDP	Mathe matica l Advan ces in Electri cal Engin eering : Challe nges and Explo ration	18/06/24 to 22/06/24	5 days	MANGALAM COLLEGE OF ENGINEERING	Mangalam College of Engineering	No
13	Ms.Jolly George	FDP	FDP on Unleashin g the Sustainabl e Developm ents and Future Trends in Electrical Engin eering	29/01/24 to 02/02/2024	5	MANGALAM COLLEGE OF ENGINEERING	MANGALA M COLLEGE OF ENGINEERI NG	No
	Ms.Jolly George	FDP	Advances in Subtractiv e and Additive Manufact uring Technolo gies	04/12/2023 to 09/12/2023	5	MANGALAM COLLEGE OF ENGINEERING	ATAL	No
14	Ms.Sreekala V.M	FDP	Mathe matica l Advan ces in Electri cal Engin eering : Challe nges and Explo ration	18/06/24 to 22/06/24	5 days	MANGALAM COLLEGE OF ENGINEERING	Mangalam College of Engineering	No

15	Ms.Sreekala V.M	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in Electrical Engineering	29/01/24 to 02/02/2024	5 days	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No
16	Ms.Sreekala V.M	FDP	"Control of Robotic Systems: Research Trends and Challenges"	05/02/2024 to 10/02/2024	6 days	Department of Electrical and Electronics Engineering, College of Engineering Perumon	Department of Electrical and Electronics Engineering, College of Engineering Perumon	No
17	Ms.Sreekala V.M	FDP	“Opportunities of Power Electronics in Smart Grid, Renewable Energy Resources and Electric Vehicles”,	26/02/2024 to 01/03/2024	5 days	SCMS SCHOOL OF ENGINEERING & TECHNOLOGY, Ernakulam		No
18	Ms.Sreekala V.M	FDP	“RECENT TRENDS IN BIOMEDICAL APPLICATIONS USING AI”,	29-01-2024 to 02-02-2024,	5 days	St. Peters Institute of Higher Education and Research, Avadi, Chennai.		No
19	Ms.Anupama V.M	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in	29/01/24 to 02/02/2024	5	MANGALAM COLLEGE OF ENGINEERING	MANGALAM COLLEGE OF ENGINEERING	No

			Electrical Engineering					
20	Ms.Arun Chandrakumar K	FDP	Mathematical Advances in Electrical Engineering : Challenges and Exploration	18/06/24 to 22/06/24	5 days	MANGALAM COLLEGE OF ENGINEERING	Mangalam College of Engineering	No
21	Ms.Arun Chandrakumar K	FDP	VLSI Design and its Applications	27/05/2024 to 1/06/2024	7 days	Annant Gyan		No
22	Ms.Arun Chandrakumar K	FDP	Exploring New Frontiers in Power Systems and Power Electronics	4/10/2024 and 07/10/2024 to 10/10/2024	5 Days	Carmel College of Engineering and Technology, Alappuzha	IEEE Kochi Subsection	
<b>Total No. of days attended</b>						<b>Total No. of Faculties Provided with financial support</b>		NIL

(ii) *Details of the training programmes attended by non-teaching:*

Sl. No.	Name of the faculty	Title of the Training programme	Organizing Institute	Period (From-To)	No of Days
NIL					
<b>Total No. of days attended</b>					NIL

**5.2. SDP/FDP/STTP Organized**

Sl. No.	Dept	Type of programme	Title of the program	Date From-To	No. of Participants	Sponsored by	Sanctioned Amount
1	EEE	FDP	FDP on Unleashing the Sustainable Developments and Future Trends in Electrical Engineering	29/01/24 to 02/02/2024	90	EEE Dept	7500

2	EEE	FDP	Mathematical Advances in Electrical Engineering: Challenges and Exploration	18/06/24 to 22/06/24	110	EEE Dept	8000
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### 5.3. Faculty Higher studies

Sl.No.	Department	Particulars	No.of Faculty
1	EEE	PhD	2
2			
Total			2

#### (i) Details of faculty registered for Ph.D /Post-Doctoral-Fellowship

Sl. No.	Name of the faculty	Registered under which Department	Name of the Research Guide	Date of Registration	Name of the University	Registration No.	Status
	Ms. Jeeps K J	EEE	Dr. T D SUBASH	2020	KTU		seminar
	Ms Preethi Sebastian	EEE	Dr. USHA NAIR	2012	CUSAT	4728	thesis submitted

#### (ii) Details of faculty completed their Ph.D /Post-Doctoral-Fellowship

Sl. No.	Name of the faculty with designation	Name of the Guide, and Department	Name of the centre	Date of Viva-Voce examination	Title of the Thesis	Area of the specialisation
	Dr. Reshma Gopi R		VIT			

### 5.4. Invited/Guest lecturers delivered by the faculty

Sl. No.	Name of the faculty	Topic	Details of the programme (Program, Name, College, Dept)	Date
1	PREETHI SEBASTIAN	Role of AI Techniques in Renewable Energy	ATAL FDP on Innovative approaches to Renewable Energy Education,GITS,Kanghazha	16/02/2024

### 5.5. Details of any awards and other recognitions won by the faculty

Sl.No	Department	Name of the Faculty	Designation	Details of the Award/ Other Recognitions received by faculty with date and venue
NIL				

## 6. Research and Innovations

Particulars	Count
Total Grants from Government and non-governmental agencies for research projects	0
Number of Seminars/ conferences/ workshops conducted	
Number of SDP/STTP/FDP conducted	2
Number of research papers in the Journals notified on UGC website	6
Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings (including manuals)	13

Number of ongoing/completed consultancy projects	
Number of Patents	4
Number of Ph.D guides in the department	0
Number of Ph.D doing faculties in the department	2
Number of Ph.D scholars in the department research centre	1

#### 6.1. Research Projects/ Proposals applied

Sl. No.	Department	Name of the funding Agency (AICTE/DST/MNRE/etc)	Name of the Scheme(TAPTEC,MOD ROB, Workshop, Seminar Grantetc)	Number of Projects /Proposals Applied	Cost of the Projects/ proposal applied Rs.
NIL					
<b>Total</b>					

#### 6.2. Ongoing Research Projects/Proposals

Sl. No	Name of the project	Sanctioned by	Title of the Project	Name and Designation of the PI	Amount Sanctioned (Rs.inLakhs)	PeriodFrom-To(Month/Y r.)	Status of the project
NIL							

#### 6.3. Research Projects/ Proposals completed

Sl. No	Name of the Scheme	Sanctioned by	Title of the Project	Name and Designation of the Chief Co-Ordinator	Amount Sanctioned( Rs.in Lakhs)	Amount utilised( Rs.in lakhs)	PeriodFrom-To(Month/Y r.)	Whether utilisation certificate Submitted or not
NIL								

#### 6.4. Workshop/Seminars/International conference Organized

Sl. No.	Dept	Type of programme	Title of the Seminar/ Conferences	Date From -To	No of Students Participated	Sponsored by	Sanctioned Amount
1	EEE	Conference	International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)	09-10 May 2024	80	CADD CENTER KOTTAYAM	5000/-
2							

\*Mention MLMCE in case of sponsorship provided by college

#### 6.5. Publication details of faculty

(i) *Details of the Publication in National /International Reputed Journals:* NIL



S. No	Title of the Paper	Name of the Journal	Date, Month and Year of publication	Vol. No. and Page No. DOI	Name of the Author	National/International	Indexing
1	Prefeasibility techno-economic analysis of hybrid renewable energy system	e-Prime - Advances in Electrical Engineering, Electronics and Energy	24,June,2024	Volume 7, 2024, <a href="https://doi.org/10.1016/j.pri.me.2024.100443">https://doi.org/10.1016/j.pri.me.2024.100443</a> .	R Reshma Gopi	International	scopus
2	Optimal reconfiguration, renewable DGs, and energy storage units' integration in distribution systems considering power generation uncertainty using hybrid GWO-SCA algorithms	International Journal of Modelling and Simulation TJMS	June,2024	, <a href="https://doi.org/10.1080/02286203.2024.2363605">https://doi.org/10.1080/02286203.2024.2363605</a>	R Reshma Gopi	International	SCI
3	Optimization of Lead-Free Cs <sub>2</sub> TiBr <sub>6</sub> Green Perovskite Solar Cell for Future Renewable Energy Applications	Current Nanoscience	April,2024	1-17, <a href="http://dx.doi.org/10.2174/0115734137286096240320075126">http://dx.doi.org/10.2174/0115734137286096240320075126</a> .	Ms Jeepa K J	International	SCI
4	Comparing the Performance of Lead-based and Lead-free Inorganic Perovskite Solar Cell Using SCAPS-1D	Nanoworld	December 22, 2023	Vol 20,S106-S108. doi: <a href="https://doi.org/10.117756/nwj.2023-s5-021">10.117756/nwj.2023-s5-021</a>	Ms Jeepa K J	International	SCOPUS
5	A regulatory power split strategy for energy management with battery and ultracapacitor	international journal of applied power engineering		Vol13,442-452, <a href="https://ijape.iaescore.com/index.php/IJAPE/issue/view/573">https://ijape.iaescore.com/index.php/IJAPE/issue/view/573</a>	Ms Sreekala V M	International	SCOPUS
6	FRT capability improvement of a wind power system using support vector regression and deep neural network mod	Australian Journal of Electrical and Electronics Engineering,	April,28,2024	April,28,2024, 1-12, <a href="https://doi.org/10.1080/1448837X.2024.2355000">https://doi.org/10.1080/1448837X.2024.2355000</a>	Ms Preethi Sebastian	International	SCOPUS

**(ii) Details of the paper presented and published in National / International conference proceedings:**

<b>S. No</b>	<b>Title of the Paper</b>	<b>Accepted/Presented/Published</b>	<b>Date, Month and Year of publication</b>	<b>Vol.No. and Page No.</b>	<b>Name of the Conference</b>	<b>Name of the Authors</b>	<b>Proceedings Name</b>
1	<b>Energy Harvesting Using Vertical Axis Wind Turbine from Highway Traffic Vehicles Movement</b>	Published	May,2024	54-59	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Dr.Reshma Gopi R	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
2	<b>Efficient dual motor power train for two wheeled electric cycle”, Proceedings of International conference on smart Innovations in Electrical Engineering</b>		May,2024	97-103	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Shoma Mani	
3	<b>Third Eye for Blind</b>		May,2024	139	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Dr.Reshma Gopi	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
4	<b>Power quality enhancement in electrical system by incorporating renewable energy resources with UPQC</b>		May,2024	138	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Dr.Honey Baby	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
5	<b>Grid - Tied Solar Panel Companion Inverter</b>		May,2024	137	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Jolly George	<b>International conference on smart Innovations in Electrical Engineering</b>

							(ICSIEE 2024)
6	<b>A Comparative Study of The Recent High Gain Boost Converters Topology For Renewable Energy Applications</b>		May,2024	135	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Aiswarya Chandran	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
7	<b>Efficiency Analysis of Gear Change Control Strategy of Clutchless Automatic Manual Transmission of an Electric Vehicle</b>		May,2024	109-113	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Lekshmi Nair J	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
8	<b>Efficiency Analysis of Gear Change Control Strategy of Clutchless Automatic Manual Transmission of an Electric Vehicle</b>		May,2024	109-113	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Preethi Sebastian	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
9	<b>,” DC-DC Converter with single input and dual output for EV</b>		May,2024	134	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Arun Chandrakumar	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
10	<b>,” DC-DC Converter with single input and dual output for EV</b>		May,2024	134	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Dr.Honey Baby	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>

							2024)
11	<b>Novel Single Phase Cuk Derived Bridgeless PFC Converter For On Board EV Charger with Alternate DC Source And Reduced Number of Components</b>		May,2024	124-133	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Dr.Reshma Gopi	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>
12	<b>An intelligent Vacuum based grass cutter for agricultural Application</b>		May,2024		<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>	Aiswarya Chandran	<b>International conference on smart Innovations in Electrical Engineering (ICSIEE 2024)</b>

*(iii) Details of the book publication: NIL*

Sl. No.	Name of the Book	Author(s) Name	Name of the Publisher	ISBN Number	Year of Publishing
NIL					

*(iv) Details of the Publication of Manuals: NIL*

Sl. No.	Name of the manual	Author(s) Name	Name of the Publisher	Year of Publishing
NIL				

**6.6. Consultancy activities**

Sl.No.	Department	Name of the Consultancy work (Training courses / Testing /Consultancy)	No. of Works undertaken	Amount earned
NIL				

**6.7. Patents applied**

- a. *No. of projects applied for patents: 1*
- b. *No. of projects/models accepted for patent: Nil*
- c. *No. of projects/models under process to be applied for patent: Nil*
- d. *Details of the patents awarded:*

Sl.No.	Department	Title of the Patent	Patent No.	Date of Grant	Name(s) of the Patentee
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NIL
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**e. Projects published in IPR Journals:**

Sl.No.	Name of the Project	Department
	IOT-ENABLED SOLAR-POWERED SMART IRRIGATION SYSTEM INTEGRATED WITH REAL-TIME WEATHER MONITORING FOR ENHANCED AGRICULTURAL WATER MANAGEMENT	EEE
	DYNAMIC WIRELESS CHARGING TECHNOLOGY FOR ELECTRIC VEHICLES-ADVANCING SUSTAINABILITY AND CONVENIENCE	EEE
	ENHANCEMENT OF THERMOELECTRIC POWER GENERATION USING RESIDENTIAL WASTE HEAT	EEE
	SOLAR-POWERED GRASS CUTTING ROBOT-INNOVATIVE SOLUTION FOR SUSTAINABLE LAWN MAINTENANCE	EEE

**6.8. New Laboratory/ Research Centre Development**

Sl.No.	Department	Type of the laboratory (New Laboratory /Research Centre)	Name of the new laboratory/Research Centre established	Total investment on laboratories Rs.
NIL				

**6.9. Research Centre activities**

- a. Total No. recognised Research Guides available at present: NIL
- b. Total No. of MLMCE Faculty registered for doing Ph.D. at present: NIL
- c. Total No. of outside Faculty registered for doing Ph.D. at present: NIL
- d. Total No. of Ph.Ds. awarded under your research Department–Till date: NIL

**(i) Ph.D.Guidance details:**

Sl. No.	Name of the approved Research Guide	No. of MLMCE faculty Registered	No. of Outside faculty Registered	Total No. of MLMCE Faculty Registered Till date	Total No. of Outside faculty Registered Till date	No. of Ph.Ds Awarded Under his guidance	Total No. of Ph.Ds awarded Under his guidance Till date
1.	NIL						

**(ii) Ph.Ds Awarded during this academic year only**

Sl. No.	Name of the Research scholar	Name of the Guide, and Department	Name of the Research centre	Date of Viva-voce examination	Title of the Thesis	Area of the specialisation
1						

**7. Extension Activities**

Particulars	Count
Number of Awards and recognitions received for extension activities from government non government recognized bodies	Nil
Number of Training programmes /Social activities such as NSS/NCC organized/conducted	1
Number of students participating in extension activities	5

**7.1. Training programmes /Social activities such as NSS/NCC organized/conducted by the Department for community/outside people**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From-to)	InAssociation with	Amount sanctioned	Nos. participated
1	Nil					

**7.2. Awards and recognitions received for extension activities from government non-government recognized bodies**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From-to)	Awards Received
1	NIL			

**8. Collaboration**

Particulars	Count
Number of active MoU's in the department	2
Number of MoU Signed during this year	1
Number of students benefitted through that MoU's	5

**a.Details of MoU**

Sl.No.	Department	MoU signed with (Name& Address of the Company)	Validity Period From	Purpose
1.	EEE	Arcite Educational Solutions Pvt Ltd	2024-2027	Providing internship programs to students for hands-on experience in real-world scenarios.
2.	EEE	Unipower Transformers Pvt.Ltd.	2021-2024	Providing internships at the company's R&D center.

**9. Other Cell Activities**

**9.1. Professional body/Chapter/NSS/NCC/RRC activities**

Sl.No.	Name of the Department	Name of the Professional bodies attached in your departments	Name of the Staff in charge of Professional Body	No. of activities conducted
1.	NIL			

**a. Details of the professional body activities:**

Name of the professional body:

Name and Designation of the Staff In charge:

No.of members in the professional body:

Faculty: Nil

Students: Nil

Activities of the current academic year;

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency /Sponsored by	Amount sanctioned by the funding agency/sponsorship
NIL					
Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/Sponsored by	Amount sanctioned by the funding agency/sponsorship
NIL					

***b. Details of any awards and other recognitions won by the Cell : NIL***

Sl.No.	Name of the Faculty/Students with department	Details of the Award /Other Recognitions received by faculty with date and venue
NIL		



# **MANGALAM COLLEGE OF ENGINEERING**

(Accredited by NAAC A Grade)

## **DEPARTMENT OF MANAGEMENT STUDIES ANNUAL REPORT 2023-2024**

(All the activities held between July 2023- June 2024)



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**1. Faculty participation related to curriculum development, BOS Member and KTU auditing member**

S. No	Name of the Faculty	Role of Participation
	NIL	

**2. Program Organized in the Department**

Particulars	Count
Number of Add on /Certificate programs organized	<b>4</b>
Number of students participated in Certificate/ Add-on programs	<b>222</b>
Number of students participated in subject related Certificate or Add-on programs	<b>120</b>
Number of Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability	<b>1</b>
Number of project work/field work/internship organized	191
Number of students participated in the project work/field work/internship organized	191

**Add on/Certificate Programs organized in the department (including GATE, IELTS coaching etc.,)**

S. No	Sem	Details of the Program	Details of the Speaker	No of Participants
1	S1	KMAT Coaching	Department Faculties	90
<b>Total No. of Participants</b>				<b>90</b>

**Subject related Add on/Certificate Programs organized in the department**

S. No	Date	Details of the Program	Details of the Speaker	No of Participants
1	<b>25/11/2023</b>	MS Excel	Ms.Anitha CG	60
2	20/4/2024	Digital Marketing	MS.Amala Lovely James	38
3	20/4/2024	Payroll	Ms.Ammu George	22
<b>Total Participants</b>				<b>120</b>

**Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability**

S. No	Date	Details of the Program	Details of the Speaker	Relevance of the subject	No of Participants
1	9/8/2024	Course Ethics Governance and CSR	Mr.Sam T Mathew	Give awareness on the Importance of ethics,Governance and Corporate Social responsibility in Business	113
<b>Total No.of Participants</b>					<b>113</b>

**Programs organized in the department related to experiential learning through project work/field work/internship during the year**

S. No	Relevance of the Program	Total no of programs	No of Participants
1	Field visit	NA	0
2	Project work	1	78
3	Internship	1	113
4	Industrial visit	2	191
	<b>Total</b>	<b>4</b>	<b>382</b>

**3. Students Performance**

Particulars	Count
Number of outgoing students placed	<b>63</b>
Number of outgoing student progression to higher education	<b>NIL</b>
Number of students qualifying in state/ national/ international level examinations	<b>1</b>
Number of events participated by students in sports/cultural activities at university/state/national / international level	<b>8</b>
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level	<b>NIL</b>

### Students Placement details

<b>Sl. No.</b>	<b>Name of student</b>	<b>Name of the company placed</b>	<b>Average Salary Per Annum</b>
<b>1</b>	<b>ABHIGITH M J</b>	<b>Reliance Retail</b>	<b>275000</b>
<b>2</b>	<b>AISWARYA KRISHNAN</b>	<b>Spine Code</b>	<b>240000</b>
<b>3</b>	<b>AJIN ABRAHAM</b>	<b>Reliance Retail</b>	<b>275000</b>
<b>4</b>	<b>AMAL P CHERIAN</b>	<b>Alza Inc</b>	<b>240000</b>
<b>5</b>	<b>ANSAL SAJI</b>	<b>Business</b>	<b>240000</b>
<b>6</b>	<b>ANURENJANA K</b>	<b>HDFC</b>	<b>283261</b>
<b>7</b>	<b>ARYA DEVARAJAN</b>	<b>ICICI Bank</b>	<b>299000</b>
<b>8</b>	<b>ASHMI PHILO SEBASTIAN</b>	<b>Spine Code</b>	<b>240000</b>
<b>9</b>	<b>BIBIN JOSEPH</b>	<b>Rich's Production and Solution Pvt Ltd</b>	<b>590996</b>
<b>10</b>	<b>DAVIS BABY</b>	<b>Yes Bank</b>	<b>300000</b>
<b>11</b>	<b>HAMZA MUHAMMED METHER</b>	<b>MG</b>	<b>144000</b>
<b>12</b>	<b>JOSSUKUTTY ALOYSIUS</b>	<b>Muthoot Finance Limited</b>	<b>201000</b>

13	LAKSHMI SABU	ESAF	425000
14	MARY ASHMY ANTONY	Sutherland	215549
15	MERIN SARA ABRAHAM	ESAF	425000
16	NIMMY P MADHU	ICICI Bank	299000
17	RIYA GEORGE NADACKAL	nxtgenix	180000
18	SARGON VARGHESE	Biesse India Pvt. Ltd.	850000
19	SHAMLA M	LULU Group	256836
20	SHILPA SANTHOSH	Reliance Retail	275000
21	SONA SOMAN	Infoapps, Calicut	
22	TOBY PAUL	Reliance Retail	275000
23	ABEEGA MARIYAM SANTHOSH	Airon Academy Pvt. Ltd.	120000
24	ABHIRAMIMOL K S	Centre for Innovative Studies	150000
25	ABIN RAJESH	Dolphin Rubber Industries	144000
26	AISWARYA MANO	Onesoft	240000

27	AMAL VIJAYAKUMAR	Reliance Retail	275000
28	ANJANA PRASAD	Info wise	240000
29	AYANA JOSE	Kerala Travels	230000
30	DEVIKA PRASANTH	CADD Centre	253500
31	JOSHMI JOSEPH	Wespo Academy	144000
32	JOYAL SABU	Metorolla	240000
33	KARTHI KRISHNA	CADD Centre	253500
34	MAHIMAMOL C MADHU	Rangamani & Co	240000
35	MATHEWS K FREDY	My G	240000
36	MEERA BIJU	Spine Code	240000
37	NIMMYA THANKACHAN	Acceron Incorporation	264000
38	NIYAS A P	Retail Retail	275000
39	NOORA AJI	Max Retail	500000
40	PARVATHI JAYAN	Hotel Crown Plaza	240000
41	PRAVEENA PRASADKUMAR	ICICI Prudential	325000

42	RASHIN NAUSHAD	Spine Code	240000
43	SAM MATHEW ABRAHAM	Spine Code	240000
44	SREYA S NAIR	ICICI Bank	240000
45	ALANA A	White Sketch	144000
46	SONA ANNA SAM	Elixiron	180000
47	SARATH B NAIR	Indel Money	156000
48	ADHITYA MOHAN	Riverleaf Technology Private Limited	204000
49	ARATHI REJI	NOBROKE R.COM	168000
50	VIJAY VINAYAN	ThoamsMountConsulting Pvt Ltd	120000
51	AKASH KUMAR	A2Z Technical Institute Pvt Ltd	204000
52	JUHI MARY JOHN	6D Technologies	231000
53	SURYA S NAIR	ThoamsMountConsulting Pvt Ltd	120000
54	AKHILA SASIKUMAR	Riverleaf Technology	204000

		<b>Private Limited</b>	
<b>55</b>	<b>AKHIN SAJI</b>	<b>Elixiron</b>	<b>180000</b>
<b>56</b>	<b>ANFA FATHIMA N S</b>	<b>Spine Code</b>	<b>240000</b>
<b>57</b>	<b>ANU JOHN</b>	<b>ICICI Bank</b>	<b>240000</b>
<b>58</b>	<b>ARPITHA KRISHNA</b>	<b>ThoamsMountConsulting Pvt Ltd</b>	<b>120000</b>
<b>59</b>	<b>CHANDANA S SURESH</b>	<b>Elixiron</b>	<b>180000</b>
<b>60</b>	<b>GEOMON JOY</b>	<b>My G</b>	<b>240000</b>
<b>61</b>	<b>GEORGI K SAMSON</b>	<b>NOBROKE R.COM</b>	<b>168000</b>
<b>62</b>	<b>KIRAN K KUTTAPPAN</b>	<b>Indel Money</b>	<b>156000</b>
<b>63</b>	<b>SARANGI S</b>	<b>ThoamsMountConsulting Pvt Ltd</b>	<b>120000</b>



### Students Higher studies details

S. No	Name of the student	Choice of Course	Name of the Institute
1	<b>NIL</b>		
Total no of students			<b>0</b>

### Students progression in state/ national/ international level examinations

S. No	Name of the student	Qualifying Exam
1	NIL	
Total no of students		<b>0</b>

### Student Participation details

*a. Prizes/Medals/Positions Achieved by Students*  
(Programmes Held MLMCE & Other Colleges)

Sl. No.	Name of the Students	Class	Title of the Paper / Project/ symposium/ etc	Oragnizer of the event	Position obtained (I, II, III etc)
-	NIL	-	-	-	-

\* Significant prizes won by the students in paper presentation, projects etc may be highlighted

*b. Total No. of prizes won by the students in paper presentation: **NIL***

*c. Total No. of prizes won by the students for quiz, technical contest, projects etc: **NIL***

*d. Students Projects sanctioned*

Sl. No.	Name of the Student(s) and year of study	Name of the Guide	Title of the Project	Sponsoring Agency	Sanctioned Date	Sponsored amount
			NIL			

#### 4. News Letters & Magazine

Particulars	Count
Number of News letters	0
Number of Magazine	0

Sl. No.	Name of the News Letter/Magazine	Volume	Month of Release
1.	MMS Beats		
2.	MMS Beats		

#### 5. Faculty/Staff Development Activities

Particulars	Count
Number of programs such as TTP/ SDP/FDP / workshop etc attended by faculties	35
Number of days attended by faculties	118
Number of faculties provided financial support for attending SDP/STTP/FDP	6
Number of training programmes attended by technical staffs	NIL
Number of professional development /administrative training programs organized by the department for teaching and non-teaching staff	0

#### Quality improvement programmes

(i) *Details of STTP/ SDP/FDP / workshop etc attended by faculty :*

S.No	Name of the Faculty	Type of the Programme	Title of the program	Period (From - To)	No. Of Days	Name of the organizer	Financial Support Provided Yes/No
1	Mr.Jeffy James	FDP	Building a world-class Indian Brand	8/8/2023	1	GIBS Business School , Bengaluru	NO
2	Ms. Rinta George	FDP	Research Paper Writing	21/8/2023 - 26/8/2023	6	School of Business Administration-BPIT, Research Foundation of India & RFI-CARE	NO
3	Ms. Tinta Baby	FDP	Research Paper Writing	21/8/2023 - 26/8/2023	6	School of Business Administration-BPIT, Research Foundation of India & RFI-	NO

						CARE	
4	Mr.Jeffy James	FDP	Ideapreneur to Entrepreneur	19/10/2023	1	GIBS Business School , Bengaluru	NO
5	Ms.Reshma Raveendranath	FDP	Innovative Teaching Strategies and tools in the digital age	20/11/2023-26/11/2023	7	IIC GGI Ludhiana	YES
6	Ms. Amala Lovely James	FDP	Research Methodology using ChatGPT & AI Tools and Funding opportunities for Research	23/11/2023-1/12/2023	8	KSHEC & Marian College Kuttikanam	NO
7	Mr. Jobin J Illickamuriyil	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
8	Ms. Amala Lovely James	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
9	Ms.Fiya James	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
10	Ms.Neethu Kuncheria	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
11	Ms.Rinta George	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
12	Ms.Reshma Raveendranath	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
13	Ms.Tinta Baby	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
14	Dr.Prima Anne George	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO

15	Mr.Bose Tom	FDP	Quality Certification	2/12/2023	1	Department of Management Studies, MLMCE	NO
16	Ms.Fiya James	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
17	Mr. Jobin J Illickamuriyil	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
18	Ms.Sherin Sasi	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
19	Ms. Amala Lovely James	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
20	Ms.Rinta George	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
21	Ms.Reshma Raveendran ath	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
22	Ms.Tinta Baby	FDP	Student Internship Program	7/12/2023	1	Department of Management Studies, MLMCE	NO
23	Mr. Jobin J Illickamuriyil	FDP	Outcome Based Education and Application of Generative AI in Teaching and Research	18/3/2024 - 23/3/2024	6	SPMVV University, Tirupati	YES
24	Ms.Tinta Baby	FDP	Advanced Research Methodology	23/3/2024 - 05/04/2024	14	Ramanujan College, University of Delhi	YES
25	Ms.Rinta George	FDP	Quantitative Research Mastery : Research Design, Sampling, Questionnaire, and	7/5/2024-9/5/2024	3	NSS College Manjeri, St.Xaviers college Vaikom, MACFAST,	NO

			Multivariate Analysis				
26	Dr.Prima Anne George	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	YES
27	Ms.Mariam Grace Saji	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	YES
28	Ms.Rinta George	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	NO
29	Ms.Sherin Sasi	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	YES
30	Ms.Reshma Raveendranath	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	NO
31	Ms.Tinta Baby	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	NO
32	Ms.Amala Lovely James	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	NO
33	Mr.Jobin J Illickamuriyil	FDP	Empowering Academic Excellence : AI	27/5/2024 - 31/5/2024		Sree Sankara College, Kalady	NO

			Tools for Research and Publication		5		
34	Mr. Bose Tom	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	NO
35	Ms. Neethu Kuncheria	FDP	Empowering Academic Excellence : AI Tools for Research and Publication	27/5/2024 - 31/5/2024	5	Sree Sankara College, Kalady	NO

Total No. of days attended	118	Total No. of Faculties Provided with financial support	6
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(ii)

(iii) *Details of the training programmes attended by non-teaching:*

Sl.No.	Name of the faculty	Title of the Training programme	Organizing Institute	Period (From - To)	No of Days
1	NIL				
Total No. of days attended					NIL

**SDP/FDP/STTP Organized**

Sl. No.	Dept	Type of programme	Title of the program	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
1	MBA	FDP	<b>Quality Certification Aspect with Respect to NAAC</b>	2/12/2023	12	NA	1850
2	MBA	FDP	Faculty Development Program On Student Internship	6/12/2023	12	NA	2000

**Faculty Higher studies**

Sl.No.	Department	Particulars	No.of Faculty
1	MBA	Nil	0
Total			0

(i) *Details of faculty registered for Ph.D /Post-Doctoral-Fellowship*

Sl.N	Name of the faculty	Registered Discipline	Name of the Research Guide	Date of Registration	Name of the University	Registration No.	Status
1	<b>Ms. Neethu Kuncheria</b>	<b>Management</b>	<b>Dr. Ajith</b>		<b>KTU</b>		<b>Pursuing</b>
2	<b>Ms. Rinta George</b>	<b>Management</b>	<b>Dr. Joychan Manual</b>		<b>MG University</b>	<b>MGUPHD23 2432</b>	<b>Pursuing</b>

(ii) *Details of faculty completed their Ph.D /Post-Doctoral-Fellowship*

<i>Sl.</i>	<i>Name of the faculty with designation</i>	<i>Name of the Guide, and Department</i>	<i>Name of the centre</i>	<i>Date of Viva-Voce Examination</i>	<i>Title of the Thesis</i>	<i>Area of the specialisation</i>
<i>1</i>	<i>Dr. Bose Tom</i>	<i>Dr.M Rajeshwari</i>	<i>Annamalai University Chidambaram</i>	<i>Sept 19 2024</i>	<i>Business and Economic Analysis of Wind Energy</i>	<i>Management</i>

**Invited / Guest lecturers delivered by the faculty**

<b>Sl. No.</b>	<b>Name of the faculty</b>	<b>Topic</b>	<b>Details of the programme (Program Name College, Dept)</b>	<b>Date</b>
1	Ankitha Mohan	<b>Role of Inclusive and Quality Education in Society Building.</b>	National Education Day Celebration- Seminar organized by the Department of Management Studies.	10-11-2024



**Details of any awards and other recognitions won by the faculty**

Sl.No.	Department	Name of the Faculty	Designation	Details of the Award / Other Recognitions received by faculty with date and venue
1			NIL	

**6. Research and Innovations.**

Particulars	Count
Total Grants from Government and non-governmental agencies for research projects	0
Number of Seminars/conferences/workshops conducted	3
Number of SDP/STTP/FDP conducted	1
Number of research papers in the Journals notified on UGC website	4
Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings (including manuals)	2
Number of ongoing/completed consultancy projects	0
Number of Patents	3
Number of Ph.D guides in the department	0
Number of Ph.D doing faculties in the department	3
Number of Ph.D scholars in the department research centre	2

**Research Projects/Proposals applied**

Sl. No.	Department	Name of the funding Agency (AICTE/DST/MNRE/etc)	Name of the Scheme (TAPTEC, MODROB, Workshop, Seminar Grant etc)	Number of Projects /Proposals applied	Cost of the Projects/ proposal applied Rs.
1.	MBA	NIL	NIL		
<b>Total</b>					<b>NIL</b>

**Ongoing Research Projects/Proposals**

Sl. No	Name of the project	Sanctioned by	Title of the Project	Name and Designation of the PI	Amount Sanctioned (Rs.in Lakhs)	Period From-To (Month/Yr.)	Status of the project
1.							NIL

**Research Projects/Proposals completed**

Sl. No	Name of the Scheme	Sanctioned by	Title of the Project	Name and Designation of the Chief Co-Ordinator	Amount Sanctioned (Rs.in Lakhs)	Amount utilised (Rs.in lakhs)	Period From- To (Month/Yr.)	Whether utilisation certificate submitted or not
NIL								

### Workshop/Seminars/International conference Organized

Sl. No.	Dept	Type of programme	Title of the Seminar/ Conferences	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
1.			NIL				

\*Mention MLMCE-incase of sponsorship provided by college

### Publication details of faculty

(i) *Details of the Publication in National / International Reputed Journals:*

S. No	Title of the Paper	Name of the Journal	Date, Month and Year of publication	Vol.No. and Page No. DOI	Name of the Author	National / International	Indexing
1	Misguided Emulation - why western management practices fail to bring out world class products in India	International Journal of Scientific Research in Engineering & Management (IJSREM)	2024	2582-3930	Mr.Sam T Mathew	National	2582-3930
2	Examining how Perceived Attitude Induces Purchase Intention when Price Senitivity and Perceived Risk act as Moderators in the	Educational Administration: Theory and Practise	2024	2148-2403	Dr. Prima Anne George, Dr, Roy C MAtthew, Ms Neethu Kunc heria, Mr. Bose Tom	National	2148-2403

	Purchase; doi.org/10.53555/kuey.v30i4.1931						
3	<u>An Analysis of the Impact of Digital Marketing on Consumer Purchasing Behaviour:</u> doi.org/10.53555/kuey.v30i5.3	Educational Administration: Theory and Practise	2024		Ms. Rinta George, Dr. Joychen Manuel	National	2148-2403
4	<u>Digital Learning: A Paradigm Shift in the Learning Culture among Employees of Indian Organizations</u>	History Research Journal	2023		<u>Ms Tinta Baby. Dr. Shibu C Chithran</u>		0976-5425

(ii) *Details of the paper presented and published in National / International conference proceedings*

S. No	Title of the Paper	Accepted/ Presented /Published	Date, Month and Year of publication	Vol. No. and Page No.	Name of the Conference	Name of the Authors	Proceedings Name
	NIL						

*(iii) Details of the book publication:*

Sl. No.	Name of the Book	Author(s) Name	Name of the Publisher	ISBN Number	Year of Publishing
		NIL			

*(iv) Details of the Publication of Manuals:*

Sl. No.	Name of the manual	Author(s) Name	Name of the Publisher	Year of Publishing
	NIL			

**Consultancy activities**

Sl.No.	Department	Name of the Consultancy work (Training courses / Testing / Consultancy)	No. of Works undertaken	Amount earned
1		NIL		
<b>Total</b>				

**Patents applied**

*No. of projects applied for patents: 3*

*a. No. of projects/models accepted for patent: 3*

*b. No. of projects/models under process to be applied for patent: Nil*

*c. Details of the patents awarded :*

Sl.No.	Department	Title of the Patent	Patent No.	Date of Grant	Name(s) of the Patentee
1	Management Studies	Optimizing transparency and efficiency in supply chains through blockchain integration.	Application No 2024410 30724 A	-	Mr. Bose Tom Ms. Rinta George Ms. Reshma Raveendranath

					Ms. Tinta Baby
2	Management Studies	Strategic business model innovation for sustainable growth	Application No 2024410 30725 A	-	Dr. Prima Anne George Ms. Neethu Kuncheria Ms. Amala Lovely James
3	Management Studies	AI-powered predictive analytics platform for financial markets - unlocking smart investment insights	Application No 2024410 30758 A	-	Dr. Tomy Mathew Mr. Jobin J Illickamuriyil Ms. Sherin Sasi Mr. Sam T. Mathew

*d. Projects published in IPR Journals:*

Sl.No.	Name of the Project	Department
NIL		

**New Laboratory/ Research Centre Development**

Sl.No.	Department	Type of the laboratory (New Laboratory / Research Centre)	Name of the new laboratory/Research Centre established	Total investment on laboratories Rs.
NIL				

### Research Centre activities

- a. Total No. recognized Research Guides available at present: 00
- b. Total No. of MLMCE Faculty registered for doing Ph.D. at present: 01
- c. Total No. of outside Faculty registered for doing Ph.D. at present: 1
- d. Total No. of Ph.Ds. awarded under your research Department – Till date: NIL

(i) Ph.D. Guidance details:

Sl. No.	Name of the approved Research Guide	No. of MLMCE faculty Registered	No. of Outside faculty Registered	Total No. of MLMCE faculty Registered Till date	Total No. of Outside faculty Registered Till date	No. of Ph.Ds Awarded Under his guidance	Total No. of Ph.Ds awarded Under his guidance Till date
1.			NIL				

(ii) Ph.Ds Awarded during this academic year only

Sl. No.	Name of the Research scholar	Name of the Guide, and Department	Name of the Research centre	Date of Viva-voce examination	Title of the Thesis	Area of the specialisation
1	NIL					

### 7. Extension Activities

Particulars	Count
Number of Awards and recognitions received for extension activities from government non government recognized bodies	NIL
Number of Training programmes /Social activities such as NSS/NCC organized/conducted	NIL
Number of students participating in extension activities	NIL

#### Training programmes /Social activities such as NSS/NCC organized/conducted by the Department for community/ outside people

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	In Association with	Amount sanctioned	Nos. participated
		NIL				

#### Awards and recognitions received for extension activities from government non government recognized bodies

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	Awards Received
1	NIL			

**8. Collaboration**

<b>Particulars</b>	<b>Count</b>
Number of active MoU's in the department	4

Number of MoU Signed during this year	4
Number of students benefited through that MoU's	201

**a. Details of MoU**

Sl.No.	Department	MoU signed with (Name & Address of the Company)	Validity Period From	Purpose
1	MBA	Shriram Life Insurance Company Ltd	2022	Organization Of Joint Conferences And Seminars, Practical Training For Mba Students
2	MBA	Sunil Patodia Welfare Foundation	2024	Networking Events, Peer -to-Peer Learning, Internship Opportunities, Contribution to Pan -India Events, Impact Assessment Driven by Data, Research and Innovation Projects, Financial Education Outreach
3	MBA	Writerr Publication Services	2024	Educational Administration and Publication Services
4	MBA	G-Tech Accademy	2023	Excell Training to the students

**9. Other Cell Activities**

**Professional body /Chapter / NSS/NCC /RRC activities**

Sl.No.	Name of the Department	Name of the Professional bodies attached in your departments	Name of the Staff incharge of Professional Body	No. of activities conducted
1	MBA	3	Ms.Reshma Raveendranath	2
2				
3				

**a. Details of the professional body activities:**

Name of the professional body :CII

Name and Designation of the Staff Incharge: Ms.Reshma Raveendranath

No. of members in the professional body: Faculty :1 Students : Nil

Activities of the current academic year



<b>Sl. No.</b>	<b>Date</b>	<b>Name &amp; Topic of the Programme</b>	<b>Name of the Chief Guest with address</b>	<b>Name of the Funding Agency/ Sponsored by</b>	<b>Amount sanctioned by the funding agency/sponsorship</b>
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		NIL			
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Name of the professional body: KMA

Name and Designation of the Staff Incharge:

No. of members in the professional body: Faculty:nil Students : Nil

Activities of the current academic year

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/ Sponsored by	Amount sanctioned by the funding agency/sponsorship
		NIL			

Name of the professional body: TRAMA

Name and Designation of the Staff Incharge: Dr. Siby C Chithran

No. of members in the professional body: Faculty: 1 Students :

NiActivities of the current academic year

Sl. No.	Date	Name & Topic of the Programme	Name of the Chief Guest with address	Name of the Funding Agency/ Sponsored by	Amount sanctioned by the funding agency/sponsorship
		NIL			

***b. Details of any awards and other recognitions won by the Cell: NIL***

Sl.No.	Name of the Faculty / Students with department	Details of the Award / Other Recognitions received by faculty with date and venue
		NIL



**MANGALAM COLLEGE OF ENGINEERING**  
(Accredited by NAAC A Grade)

# DEPARTMENT OF COMPUTER APPLICATIONS

## ANNUAL REPORT

**2023-2024**

(All the activities held between July 2023- June 2024)

### Index

<b>R.No</b>	<b>Particulars</b>	<b>Page.No</b>
1	Faculty participation related to curriculum development, BOS Member and KTU auditing member	
2	Program Organized in the Department	
3	Students Performance	
4	News Letters & Magazine	
5	Faculty/Staff Development Activities	
6	Research and Innovations	
7	Extension Activities	
8	Collaboration	
9	Other Cell Activities	

**1. Faculty participation related to curriculum development, BOS Member and KTU auditing member**

S. No	Name of the Faculty	Role of Participation
1	Ms. Divya S B	HOD DCA

**2. Program Organized in the Department**

Particulars	Count
Number of Add on /Certificate programs organized	1
Number of students participated in Certificate/ Add-on programs	43

**2.1. Add on/Certificate Programs organized in the department (including GATE, IELTS coaching etc.,)**

S. No	Sem	Details of the Program	Details of the Speaker	No of Participants
1	Odd	Block chain Technology	Face-in Technologies	43
2	Even	Mastering Arduino Using IOT	Face-in Technologies	43
<b>Total No.of Participants</b>				<b>86</b>

**2.2. Subject related Add on/Certificate Programs organized in the department**

S. No	Date	Details of the Program	Details of the Speaker	No of Participants
1.	22.03.2024	Expert Talk on "Breaking Barriers: Navigating beyond Deadlocks"	Mr.Syam Gopi, Assistant Professor,CSE Dept. Amal Jyoti college of Engineering	43
2.	08.04.2024	Expert Talk on "Discovering the world of database"	Ms. Muhsina Pareeth Lecturer, Ilahia polytechnic college, pezhakapilly, Muvattupuzha	43
3.	18.04.2024	Expert Talk on "Wifi and Cellular Networks: Latest generation, Beyond your expectations"	Dr. Reji Ravi, Associate Professor & HOD, Dept of CSE, Carmel college of engineering Punnapra,Alappuzha	43
4.	03.06.2023	Expert Talk on "Startup Revolution: Transforming ideas into reality"	Ms. CS Jayan K , Company Secretary, Partner SVJS & Associates	43

**2.3. Programs organized in the department related to professional ethics, Gender Equity, Human Values, Environment and Sustainability**

S. No	Date	Details of the Program	Details of the Speaker	Relevance of the subject	No of Participants
Nil					

**2.4. Programs organized in the department related to experiential learning through project work/field work/internship during the year**

S. No	Relevance of the Program	Total no of programs	No of Participants
3	Internship	1	43
4	Industrial visit	1	43
	<b>Total</b>	<b>2</b>	<b>43</b>

### 3. Students Performance

Particulars	Count
Number of outgoing students placed	NIL
Number of outgoing student progression to higher education	NIL
Number of students qualifying in state/ national/ international level examinations	NIL
Number of events participated by students in sports/cultural activities at university/state/national / international level	NIL
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level	NIL

#### 3.2. Students Higher studies details

#### 3.3. Students progression in state/ national/ international level examinations

S. No	Name of the student	Qualifying Exam
1	NIL	

#### 3.4. Student Participation details

##### *a. Prizes/Medals/Positions Achieved by Students*

(Programmes Held MLMCE & Other Colleges)

Sl. No.	Name of the Students	Class	Title of the Paper / Project/ symposium/ etc	Oragnizer of the event	Position obtained (I, II, III etc)
1	ZAINA ZAKKER	S1 MCA	DESIGN CHALLENGE	SJCET	FIRST PRIZE
2	ROJIN ROY	S1 MCS	RACE RK23	MMCE	SECOND PRIZE
3	ALAN BABY	S1 MCA	COUNTY CRICKET	SAINTGITS COLLEGE OF ENGINEERING	SECOND PRIZE
4	ABIN VARGHESE	S1 MCA	COUNTY CRICKET	SAINTGITS COLLEGE OF ENGINEERING	SECOND PRIZE

5	ARJUN M B	S1 MCA	DEBATE COMPETITION	SJCET	SECOND PRIZE
6	ASWIN K P	S1 MCA	SCI- TECH SMACKDOWN	SJCET	THIRD PRIZE
7	VISHAL P D	S1 MCA	QUIZZLE - NAKSATHRA FEST	SAINTGITS COLLEGE OF ENGINEERING	FIRST PRIZE

\* Significant prizes won by the students in paper presentation, projects etc may be highlighted

*b. Total No. of prizes won by the students in paper presentation: Nil*

*c. Total No. of prizes won by the students for quiz, technical contest, projects etc: 5*

*d. Students Projects sanctioned: Nil*

Sl. No.	Name of the Student(s) and year of study	Name of the Guide	Title of the Project	Sponsoring Agency	Sanctioned Date	Sponsored amount
	NIL					

#### 4. News Letters & Magazine

Particulars	Count
Number of News letters	NIL
Number of Magazine	NIL

#### 5. Faculty/Staff Development Activities

Particulars	Count
Number of programs such as TTP/ SDP/FDP / workshop etc attended by faculties	40
Number of days attended by faculties	182
Number of faculties provided financial support for attending SDp/STTP/FDP	Nil
Number of training programmes attended by technical staffs	Nil
Number of professional development /administrative training programs organized by the department for teaching and non-teaching staff during	1

## 5.1. Quality improvement programmes

(i) Details of STTP/ SDP/FDP / workshop etc attended by faculty :

SL No	Name of the Faculty	Type of the Programme (STTP/SDP/FDP/etc)	Title of the program	Period (From - To)	No. Of Days	Name of the organizer	Sponsor of the program	Financial Support Provided Yes/No
1	Ms. Ashwani Vijayachandran	FDP	Building Advanced Data Analytics Applications with Cloud	20/11/2023-24/11/2023	4	NEXT GEN EMPLOYABILITY PROGRAM		No
2	Ms. Divya S B	FDP	Cyber Security and Forencics	22/01/2024-26/01/2024	4	MAHAGURU INSTITUTE OF TECHNOLOGY		No
3	Ms. Ashwani Vijayachandran	FDP	Cyber Security and Forencics	22/01/2024-26/01/2024	4	MAHAGURU INSTITUTE OF TECHNOLOGY		No
4	Mr. Eldhose K Paul	FDP	Cyber Security and Forencics	22/01/2024-26/01/2024	4	MAHAGURU INSTITUTE OF TECHNOLOGY		No
5	Mr. Eldhose K Paul	FDP	Visual Intelligence : Exploring Image Processing and Computer Vision	26/03/2024-30/03/2024	4	CVR COLLEGE OF ENGINEERING		No
6	Ms. Banu Sumayya S	FDP	Visual Intelligence : Exploring Image Processing and Computer Vision	26/03/2024-30/03/2024	4	CVR COLLEGE OF ENGINEERING		No



(ii) *Details of the training programmes attended by non-teaching:*

Sl.No.	Name of the faculty	Title of the Training programme	Organizing Institute	Period (From - To)	No of Days
1	NIL				
Total No. of days attended					NIL

**5.2. SDP/FDP/STTP Organized**

Sl. No.	Dept	Type of programme	Title of the program	Date From - To	Nos. Participated	Sponsored by	Sanctioned Amount
1.	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**5.3. Faculty Higher studies**

Sl.No.	Department	Particulars	No.of Faculty
1	DCA	No. of Faculty sponsored for Ph.D. /Post-Doctoral Fellowship	0
2		No. of faculty completed their Ph.D	0
Total			0

(i) *Details of faculty registered for Ph.D /Post-Doctoral-Fellowship*

Sl.No.	Name of the faculty	Registered under which Department	Name of the Research Guide	Date of Registration	Name of the University	Registration No.	Status
1.	NIL						

(ii) *Details of faculty completed their Ph.D /Post-Doctoral-Fellowship*

Sl. No.	Name of the faculty with designation	Name of the Guide, and Department	Name of the centre	Date of Viva voce examination	Title of the Thesis	Area of the specialisation
1.	NIL					

**5.4. Invited / Guest lecturers delivered by the faculty**

Sl. No.	Name of the faculty	Topic	Details of the programme (Program Name College, Dept)	Date
1	NIL			

**6. Research and Innovations**

Particulars	Count
Total Grants from Government and non-governmental agencies for research projects	NIL
Number of Seminars/conferences/workshops conducted	NIL
Number of SDP/STTP/FDP conducted	NIL
Number of research papers in the Journals notified on UGC website	NIL
Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings (including manuals)	NIL
Number of ongoing/completed consultancy projects	NA

Number of Patents	NIL
Number of Ph.D guides in the department	NIL
Number of Ph.D doing faculties in the department	1
Number of Ph.D scholars in the department research centre	NIL

### 6.1. Research Projects/Proposals applied

Sl. No.	Department	Name of the funding Agency (AICTE/DST/MNRE/etc)	Name of the Scheme (TAPTEC, MODROB, Workshop, Seminar Grant etc)	Number of Projects /Proposals applied	Cost of the Projects/ proposal applied Rs.
NIL					

### 6.2. Ongoing Research Projects/Proposals

Sl. No	Name of the project	Sanctioned by	Title of the Project	Name and Designation of the PI	Amount Sanctioned (Rs.in Lakhs)	Period From- To (Month/Yr.)	Status of the project
1.	NIL						

### 6.3. Research Projects/Proposals completed

Sl. No	Name of the Scheme	Sanctioned by	Title of the Project	Name and Designation of the Chief Co-Ordinator	Amount Sanctioned (Rs.in Lakhs)	Amount utilised (Rs.in lakhs)	Period From- To (Month/Yr.)	Whether utilisation certificate submitted or not
NIL								

### 6.4. Workshop/Seminars/International conference Organized

Sl. No.	Dept	Type of programme	Title of the Seminar/ Conferences	Date From – To	Nos. Participated	Sponsored by	Sanctioned Amount
Nil							

\*Mention MLMCE-incase of sponsorship provided by college

### 6.5. Publication details of faculty

(i) *Details of the Publication in National / International Reputed Journals:*

S. No	Title of the Paper	Name of the Journal	Date, Month and Year of publication	Vol.No. and Page No. DOI	Name of the Author	National/ International	Indexing
NIL							

(ii) *Details of the paper presented and published in National / International conference proceedings*

S. No	Title of the Paper	Accepted/ Presented /Published	Date, Month and Year of publication	Vol. No. and Page No.	Name of the Conference	Name of the Authors	Proceedings Name
Nil							

(iii) *Details of the book publication:*

Sl. No.	Name of the Book	Author(s) Name	Name of the Publisher	ISBN Number	Year of Publishing
Nil					

**6.6. Consultancy activities**

Sl.No.	Department	Name of the Consultancy work (Training courses / Testing / Consultancy)	No. of Works undertaken	Amount earned
Nil				

**6.7. Patents applied**

- a. *No. of projects applied for patents: Nil*
- b. *No. of projects/models accepted for patent: Nil*
- c. *No. of projects/models under process to be applied for patent: Nil*
- d. *Details of the patents awarded:*

Sl.No.	Department	Title of the Patent	Patent No.	Date of Grant	Name(s) of the Patentee
1	DCA	Automated Disease recovery of coffee plantation using IOT and Machine Learning	202441030759	26/04/2024	1. Ms. Divya SB 2. Mr. Eldhose K Paul 3. Ms. Ashwani Vijayachandran 4. Ms. Banu Sumayya S

*e. Projects published in IPR Journals:*

Sl.No.	Name of the Project	Department
NIL		

**6.8. New Laboratory/ Research Centre Development**

Sl.No.	Department	Type of the laboratory (New Laboratory / Research Centre)	Name of the new laboratory/Research Centre established	Total investment on laboratories Rs.
NIL				

**6.9. Research Centre activities**

- a. *Total No. recognised Research Guides available at present: 0*
- b. *Total No. of MLMCE Faculty registered for doing Ph.D. at present: 01*
- c. *Total No. of outside Faculty registered for doing Ph.D. at present: NIL*
- d. *Total No. of Ph.Ds. awarded under your research Department – Till date: NIL*

*(i) Ph.D. Guidance details:*

Sl. No.	Name of the approved Research Guide	No. of MLMCE faculty Registered	No. of Outside faculty Registered	Total No. of MLMCE faculty Registered Till date	Total No. of Outside faculty Registered Till date	No. of Ph.Ds Awarded Under his guidance	Total No. of Ph.Ds awarded Under his guidance Till date
Nil							

*(ii) Ph.Ds Awarded during this academic year only*

Sl. No.	Name of the Research scholar	Name of the Guide, and Department	Name of the Research centre	Date of Viva voce examination	Title of the Thesis	Area of the specialisation
1	NIL					

**7. Extension Activities**

Particulars	Count
Number of Awards and recognitions received for extension activities from government non government recognized bodies	Nil
Number of Training programmes /Social activities such as NSS/NCC organized/conducted	Nil

Number of students participating in extension activities	Nil
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**7.1. Training programmes /Social activities such as NSS/NCC organized/conducted by the Department for community/ outside people**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	In Association with	Amount sanctioned	Nos. participated
Nil						

**7.2. Awards and recognitions received for extension activities from government non government recognized bodies**

Sl.No.	Name of the Programme	Extension/ Cell	Date (From – to)	Awards Received
1	NIL			

**8. Collaboration**

Particulars	Count
Number of active MoU's in the department	Nil
Number of MoU Signed during this year	Nil
Number of students benefitted through that MoU's	Nil

*a. Details of MoU*

Sl.No.	Department	MoU signed with (Name & Address of the Company)	Validity Period From	Purpose
Nil				

**9. Other Cell Activities**

**9.1. Professional body /Chapter / NSS/NCC /RRC activities**

Sl.No.	Name of the Department	Name of the Professional bodies attached in your departments	Name of the Staff incharge of Professional Body	No. of activities conducted
Nil				

*a. Details of any awards and other recognitions won by the Cell: NIL*

Sl.No.	Name of the Faculty / Students with department	Details of the Award / Other Recognitions received by faculty with date and venue
NIL		