

# CENTRE OF EXCELLENCE IN FACTORY AUTOMATION

(Sponsored by Mitsubishi Electric India Private Limited)

RMK Engineering college established Centre of Excellence in Factory Automation in collaboration with Mitsubishi Electric India Private limited, Haryana during 2015. The main aim of this Centre of Excellence is to conduct training and placement initiative in the area of Automation and Control Engineering.

## VISION

- To prepare our students for a rapidly changing world by equipping them with the ability to analyze and solve engineering tribulations.
- To build up awareness among budding engineers and equip them with knowledge and skill in the field of Factory Automation.
- To enhance placement activities and to place the students in core companies.

## SPoC and Core Team member

S. No.	NAME	DESIGNATION	INSTITUTIONS
1.	Dr. K.A. Mohamed Junaid	Principal	RMKEC
2.	Dr.T.Gnanasekaran	Head of Department, EIE	RMKEC
3.	Ms.M.Kayalvizhi, SPoC - RMKEC	Assistant Professor , EIE	RMKEC
4.	Mr.G.Marimuthu	Assistant Professor, EIE	RMKEC
5.	Ms.V.Karthika	Assistant Professor,EEE	RMKEC

## Activities

### a. Train the Trainer Program:

S. No.	TRAINING AGENDA	FACULTY	PARTICIPANTS	VENUE	DATE
2.	Q PLC & CC-Link Basic Training	Mr.P.Haribabu, Engineer – FAC Mr. Anbu Kannan, Technical Support Engineer - FAC	Ms.M.Kayalvizhi, AP/EIE – RMKEC Ms. V.Karthika, AP/EEE – RMKEC	R.M.K. ENGINEERING COLLEGE	May 6 <sup>th</sup> to May 8 <sup>th</sup> , 2015
3.	FX PLC Training	Mr.P.Haribabu, Engineer – FAC	Ms.M.Kayalvizhi, AP/EIE – RMKEC	MITSUBISHI	June 1 <sup>st</sup> to

				ELECTRIC – CHENNAI FACILITY	2 <sup>nd</sup> , 2015
4.	GOT Training	Mr.P.Prashanth, Engineer – FAC	Ms.M.Kayalvizhi, AP/EIE – RMKEC Mr.G.Marimuthu, AP/EIE – RMKEC Ms. V.Karthika, AP/EEE – RMKEC	R.M.K. ENGINEERING COLLEGE	September 21 <sup>st</sup> to 22 <sup>nd</sup> , 2015
5.	Skill Development Program for Faculties on Mitsubishi Factory Automation Learning Setup	Experts from Pune facility	Ms.M.Kayalvizhi, AP/EIE – RMKEC	MITSUBISHI ELECTRIC – PUNE FACILITY	September 26 <sup>th</sup> to 28 <sup>th</sup> , 2016
6.	Java IoT Developer	Ms.Deepikkaa, Senior Trainer, UX Business Solutions	Ms.M.Kayalvizhi, AP/EIE – RMKEC	UX Business Solutions, Chennai	May 10 <sup>th</sup> to June 2 <sup>nd</sup> , 2017

b. Conduct of Training Program on Programmable Logic Controller and its applications for Pre-Final year students of EIE & EEE.

c. Participation in Corporate Contest:

CONTEST	PROJECT TITLE	NAME OF THE STUDENTS	REMARKS
1 <sup>st</sup> MITSUBISHI ELECTRIC CUP: A NATIONAL LEVEL AUTOMATION COMPETITION	VARIABLE SIZED BOTTLE FILLING PROCESS USING PLC	Mr. Sanjeev.S Mr. Shreenath.M Mr. Balamurugan.S Mr. Swarnadharan.R	Students of Final Year (2012-2016 Batch)- EIE, R.M.K. Engineering College were shortlisted in the top 24 teams across the country for demonstrating the Project in the 1 <sup>st</sup> Mitsubishi Electric Cup held on 12-13 February 2016, Pune.
2 <sup>nd</sup> MITSUBISHI ELECTRIC CUP: A NATIONAL LEVEL AUTOMATION COMPETITION	INTELLIGENT SECURED GARAGE FOR SMART BUILDINGS	Ms. Mahalakshmi.CMs. MalaikaAfra Taj Ms. S, Syed Ali Fathima.S Ms. Gayathiri.M	Students of Pre-Final Year - EIE, R.M.K. Engineering College were shortlisted in the top 35 teams across the country for demonstrating

			the Project in the 2 <sup>nd</sup> Mitsubishi Electric Cup held on 17-18 February 2017,Pune. They were awarded <b>Certificate of Appreciation: Commandable Performance Award.</b>
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### No. of Students Registered

YEAR	RMKEC	
	EIE	EEE
2015-16	39	28
2016-17	23	18
<b>TOTAL Dept. wise</b>	<b>62</b>	<b>46</b>

### Company Logo



### Lab Inauguration details with Photo

Mitsubishi Electric India (MEI) Signed MoU (Period: 3 Years) with R.M.K. Group of Institutions to train students to be Industry Ready. Mr. Hiroki Omura, General Manager – Mitsubishi Electric India Private Limited and Shri. R.S.Munirathinam Founder – Chariman, R.M.K. Group of Institutions inaugurated Factory Automation Lab.

The Supplementary MoU(executed on 24<sup>th</sup> May, 2016) was exchanged between Mr. Ragothaman. S – Branch Manager – Sales, Mitsubishi Electric India and Shri R S Munirathinam, Founder – Chariman, R.M.K. Group of Institutions on 2<sup>nd</sup> February, 2017.As per the Supplementary MoU, Mitsubishi Electric India management decided to expand the existing collaboration with R.M.K. Group of Institutions by providing latest training setup on Factory Automation Technologyworth over Rs 23 lakhs,where in they have already given FX & Q PLC Setups worth over Rs 8 lakhs( as per MoUexecuted on 25<sup>th</sup> February, 2015) , which will support students taking up EIE&EEE courses.

### LAB EQUIPMENTS

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S. No.	Name of Kit	Quantity	Unit Price	Total
1	Q PLC Training Setup	1	4,23,500	4,23,500
2	FX PLC Training Setup	1	1,92,000	1,92,000
3	IQ Platform Programming Software	1	2,08,300	2,08,300

<b>4</b>	iQR Training Set up	2	11,16,600	22,33,200
<b>5</b>	iQ Works Programming Software(Model:SW1DND IND-IQWK-E)	1	99,000	99,000
<b>Grand Total</b>				<b>31,56,000</b>