

Mangalam Campus  
Mangalam Hills, Vettimukal P.O  
Ettumanoor, Kottayam  
Kerala-686631



**MANGALAM**  
**COLLEGE OF ENGINEERING**  
Inspire | Imbibe | Innovate

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( Approved by AICTE, Affiliated to MGU / APJ Abdul Kalam Technological University, NAAC Accredited & ISO Certified Institution )

3.2.2 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years						
AY: 2017-18						
SL NO	DATE & YEAR	TOPIC & SUBJECT	DEPARTMENT	NO OF PARTICIPANTS	NATURE OF SEMINAR: INTERNATIONAL/NATIONAL/REGIONAL	NAME AND DESIGNATION OF RESOURCE PERSON
1	18-12-2017 TO 22-12-2017	System Design using MATLAB	EEE	25	REGIONAL	Dr.Rajesh Joseph Abraham, Assoc Professor
2	26-2-2018 TO 2-3-2018	Research Methodology- Writing effective research articles	EEE	28	REGIONAL	Dr Sreejith P S,Dean
3	3-10-2018	Marketing In Entrepreneurship	MBA	64	REGIONAL	Mr James Joseph, CEO, Jackfruit 365

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Ettumanoor

**Report**  
**On**  
**Five Days Faculty Development Programme on**  
**System Design Using MATLAB**  
**18<sup>th</sup> to 22<sup>nd</sup> December 2017**

**Introduction**

Five days Faculty Development Programme (FDP) on "System Design using MATLAB" was held at Mangalam College of Engineering, Ettumanoor, Kottayam, during 18<sup>th</sup> to 22<sup>nd</sup> of December 2017. This programme was organized by the Department of Electrical and Electronics of Mangalam College of Engineering (MLMCE), Ettumanoor and was financially supported by APJ Abdul Kalam Technological University (APJKTU), Kerala. This FDP provides opportunity to faculty members and researchers to enrich their knowledge and skills in MATLAB Programming and Simulation in various fields of Control Systems, Signal and Image Processing, and Artificial Intelligence.

**Objectives:**

The major objectives kept in mind while framing this FDP were as follows:

- To review of fundamental concepts in Control System Engineering.
- To give hands on experience in MATLAB & Simulink to demonstrate the applicability of Control Principles.
- To provide a detailed analysis on Complex topics in Control System Engineering.
- To demonstrate the applications of Signal Processing using MATLAB & Simulink.
- To deal with optimization techniques in Research Perspectives in the field of artificial intelligence

The FDP was attended by the 33 participants from the faculty members of EEE, ECE and CSE Departments of various engineering colleges affiliated to APJKTU.

**Participating Institutes:**

Sl No	Name of the Institute	Number of participants
1	Government College of Engineering, Kannur	1
2	Mar Baselios Christian College of Engineering and Technology, Peermedu	2
3	UKF College of Engineering and	1

Principal



Dr. C Arunachalaperumal obtained his B.Tech and M.Tech from Anna University Chennai. His doctoral work is in Wireless Communication from Anna University Chennai. He started his career as Assistant Engineer at BSYF, Jeddah. In 2004 he entered into teaching profession. Presently he is working as Professor, S A Engineering College, Chennai. His areas of interest is in Wireless Communication, Planbt Automation and Management Information System. He has done a research project on VHL D Implementation of an efficient Trellis Coded Spatial Modulation Scheme for Satellite MIMO Communicatrion for ISRO, Ahamedabad.

Prof. S Dhillip Kumar obtained his B.E and M.E degree from Anna University, Chennai. He started his career as academician in 2013 and presently Assistant Professor, in S.A Engineering College Chennai. His areas of interest is in Satellite & Wireless Communication, Modern Digital Communication Techniques, Internet of Things & Medical IoT, and Wireless Networks. He has also included in the research project on VHL D Implementation of an efficient Trellis Coded Spatial Modulation Scheme for Satellite MIMO Communicatrion for ISRO, Ahamedabad.

#### Learnings:

- Participants gained the knowledge on following points:
- Appliacation of MATLAB in Signals and Systems and Communication Systems
- Generation of signals, Signal Convolution and Correlation-a hands on session
- Filter Design
- Error Control coding techniques and Modulation Techniques.

Day 4 (21<sup>st</sup> December 2017-Thursday) & Day 5 (22<sup>nd</sup> December 2017):

Session Topic: MATLAB Applications in Image Processing and Artificial Intelligence

Speaker: Dr. S Mahesh Anand & Dr. T D Subash

Dr. S Mahesh Anand is the founder and CTO of Scientific Computing Solutions (SCS), India. He is a very [assionate educationalist, entrepreneur, corporate trainer and Data analytics Consultant. He has trained 19,000 plus (till Nov 2017) Engineering students, and Faculty across India, including IIT's and NIT's and Engineers and scientist on various skills including Signal and Image Processing, Computer Vision, Pattern Recognition, Data Analytics, Business Analytics, Machine Learning and Soft Computing, Optimization and Evolutionary Computing using tools like SCILAB, MATLAB, R, SAS, PYTHON, OPENCV, HADOOP and SPARK Technologies. Prior founding SCS-India in the year 2012, he has server VIT University, Vellore as a faculty for a priuod of 9 years at various positions in the school of Electronics and had a corporate experience at John F Welch Technology (Banglore), for a year with GE Healthcare MRI Visualization Team.



	(b) Breaks were sufficient	IIIIIIIIIIII	II	
	(c) A good mix between listening and activities	IIIIIIII	IIIIII	
6	The activities were useful learning experience	IIIIIIIIII	IIIIII	
7	Duration of FDP	IIIIIIII	IIIIII	II
8	The facilitators were (a) Knowledgeable	IIIIIIIIII	III	
	(b) Well prepared	IIIIIIIIII	III	I
	(c) Responsive to Participant's question	IIIIIIIIII	IIIIII	
9	Would you like to have more such sessions?	IIIIIIIIII	III	III
10	FDP was useful for your field of teaching	IIIIIIII	IIIIIIII	I
11	FDP was useful for your field of research	IIIIIIIIII	III	II
12	What would you like best about this FDP?	<p>Very able resource persons.</p> <p>Image Processing</p> <p>Well Co-ordinated</p> <p>Image Processing and Control Systems</p> <p>The hands on training</p> <p>Content was relevant</p>		
13	What did you like least about this FDP?	<p>Topics were not very apt for CSE Dept</p> <p>Signal Processing</p> <p>Filter Design</p> <p>Projector Screen was not clearly visible</p> <p>Third Day of FDP</p> <p>FDP venue was comfortable but small problems at the location</p>		
14	How could this FDP be improved?	Content: Good Topic Selection, 5		

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	(b) Breaks were sufficient	IIIIIIIIIIII	II	
	(c )A good mix between listening and activities	IIIIIIII	IIIIII	
6	The activities were useful learning experience	IIIIIIII	IIIIII	
7	Duration of FDP	IIIIII	IIIIII	II
8	The facilitators were (a)Knowledgeable	IIIIIIIIII	III	
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14	How could this FDP be improved?	Content:Good Topic Selection,5		

Dr. T D Subash obtained his B.E and M.E from Anna University, Chennai. He has obtained his Doctoral Degree for the research on Modelling and Simulation of Loe Gate Length InSb QWFET for RF Applications from Anna University Chennai. His area of interest includes Semiconductor Devices and Circuits, Nanoelectronics, Nanoscale Device Modelling, Analytical Characterisitics, III-V Compound Materials based HEMT devices, Digital IC's, Digital Image Processing, Wireless Networks and Material Sciences. He has over 7 years of teaching experiences and ^ years of research experiences. He serve as the Chairman of IEEE Photonics Society Madras Chapter since 2015. He served as the reviewer for different International Conferences. Presently he is working as Professor in Mangalam College of Engineering, Ettumanoor.

Learnings:

The participants had a theory oriented hands on training session on following main points:

- Introduction to @-D Signal(Image)
- Spatial Domain Representaytion
- Grey Level Resolution and Spatial Resolution
- Point Processing
- Linear and Non-Linear Operations
- Geometrical Transformations.
- Image Enhancement by Histogram Equalizations
- Contrast Stretching with Piece wise linear transfer function-Qualitative and Quantitative assessment
- Introduction to Block Processing(Spatial Domain Filtering)
- Dealing with Gaussian and Imulse Noise in Digital Images
- Mean Filter and Median Filtering
- Region of Interest (ROI) Segmentation
- Colour Image Processing in RGB and YCbCr planes.
- Colour Object Recognition based on Colour Features
- Feature extraction from Didgital Images, Shape and Texture Features, Feature Description Methods
- Role of Soft Computing(Artifaial Intelligence) in pattern recognition
- Introduction to Artificial Neural Networks(ANN), Fuzzy Logic and Gneric Alogorithm(GA)
- Design of Artificial Neural Network to classify patterns from the extracted features
- Back propagation network with Delta Learning Rule





Five Days Faculty Development Programme on  
**System Design Using MATLAB**



**CERTIFICATE**  
— of Participation —

This is to certify that Mr/Ms..... **Jeneesh Scaria**  
from..... **Mangalam College of Engineering , Ettumanoor**  
has participated in the Five Day Faculty Development Programme on **System Design using**  
**MATLAB** sponsored by APJ Abdul Kalam Technological University, held at **Mangalam College of**  
**Engineering, Kottayam, Kerala from 18<sup>th</sup> - 22<sup>nd</sup> December, 2017.**

.....  
Dr.T.D.Subash  
Coordinator

.....  
Prof.Benny K.K  
HOD/EEE

.....  
Dr.Paulose M.M  
Principal

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Ettimadur



From

Jeepa K.J  
Assistant Professor,  
Department of EEE  
Mangalam College of Engineering

To

The Principal  
Mangalam College of Engineering  
Kottayam

Sub: Settlement of Bills after the One day Workshop on Research Methodology-  
reg

Respected sir,

We have successfully organized the One day Workshop on Research Methodology on 28<sup>th</sup> February, 2018 at our campus. I herewith attached all the bills and the statement of expenditures. Kindly acknowledge the same..

12/03/2018,

Ettumanoor


Handed to the HOD

12/03/18

Forwarded  
12/3/18

Yours Faithfully

Jeepa K.J

  
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*One Day Workshop*

*on*

**“Research Methodology – Writing Effective Research  
Articles”**

**FEBRUARY 28<sup>TH</sup> 2018**

*Organized by*

*Department of Electrical and Electronics Engineering*

*Mangalam College of Engineering*

*Schedule of Inaugural Function*

*Time 9.30 am to 10.00 am*

Prayer : Students

Welcome Address : Dr. T.D Subash (Convener, EEE Dept.,)

Presidential Address : Dr. M.M Paulose (Principal, MLMCE)

Inaugural Address : Dr. Sreejith P.S (Chief Guest, Dean, Department of ME,  
CUSAT)

*Lightning of Lamp*

Special Address : Dr. Abraham Chettisery (Legal Advisor)

Honoring the Chief Guest: Prof. Benny K.K (HOD, EEE Dept.,)

Vote of Thanks : Jeepa K.J (AP, EEE Dept.,)

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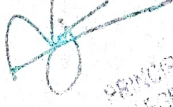


*One Day Workshop*  
*on*  
**"Research Methodology - Writing Effective Articles"**  
*hosted by*

Department of Electrical and Electronics Engineering  
**Mangalam College of Engineering**  
 Ettumanoor, Kottayam, Kerala, India

on  
**28<sup>th</sup> February, 2018**  
**Programme Schedule**

Wednesday (28 <sup>th</sup> Wednesday, 2018)		
9:00 - 9:30 AM	Registration (Reception, Main block)	
9:30 - 10:00 AM	Inaugural Function (Digital Theatre)	
Regular Sessions		
10:00 - 11:15 AM	Significance of Research and Research Ethics, Literature Review in Research	Dr. Sreejith.P.S, Dean, Faculty of Engineering, Cochin University of Science & Technology
11:15 - 11:30 AM	High Tea	
11:30 AM - 12:30 PM	Research problem Formulation	Dr. Sreejith.P.S, Dean, Faculty of Engineering, Cochin University of Science & Technology
12:30 - 01:30 PM	Networking Lunch (Canteen)	
01:30 - 02:45 PM	Reading and Writing Effective Research Articles	Dr.T.D.Subash, Prof/EEE
02:45 - 03:45 PM	Joy of Research	Fr. Bennet Kuriakose, Prof/Civil
03:45 - 04:00 PM	Interactions & Certificate Distribution	

  
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 ETTUMANOOR, KOTTAYAM, KERALA, INDIA



Date: 01/02/2018

To

Dr. Sreejith P.S  
Professor, Mechanical Engineering Division,  
SOE, CUSAT  
Cochin University College of Engineering,

Sub:- Invitation letter for one day workshop- reg

Dear Sir,

The Department of Electrical and Electronics Engineering of Mangalam college of Engineering is organizing a *One Day Workshop On "Research Methodology- Writing Effective Research Articles"* which is scheduled to be conducted on 28<sup>th</sup> February 2018. This program is intended to benefit Post Graduate students, Researchers & Faculty members.

We would be delighted and grateful, if you could kindly deliver a session on 28<sup>th</sup> February 2018 and consent to be the Chief Guest of the inaugural function.

Thanking You



Principal

Dr. Pauloso M.M.  
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### RESEARCH METHODOLOGY REPORT

One Day Workshop on "Research Methodology – Writing Effective Research Articles" was organized on FEBRUARY 28TH 2018. It was organized by Department of Electrical and Electronics Engineering Mangalam College of Engineering . Significance of Research and Research Ethics, Literature Review in Research was taken by Dr. Sreejith.P.S, Dean, Faculty of Engineering, Cochin University of Science & Technology.



*(Signature)*  
PROFESSOR  
MANGALAM COLLEGE OF ENGINEERING  
ERNAKULAM





A handwritten signature in dark ink, appearing to be 'A. J.', written over a light-colored background.

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Ehmednagar



		Informed project changes that need to be made to reach goals	collection informed project changes that needed to be made to reach goals
		Efficiency Score (whole number only):	
		4	

Connectdness			
1 - Needs Improvement	2 - Fair	3 - Good	4 - Excellent
<ul style="list-style-type: none"> <li>This project does not take into account other initiatives happening in the area</li> <li>This project is not able to connect individuals involved with local resources</li> <li>This project does not improve any other issues in the area</li> </ul>	<ul style="list-style-type: none"> <li>This project takes into account some initiatives happening in the area</li> <li>This project is not able to connect individuals involved with local resources</li> <li>This project does not improve any other issues in the area</li> </ul>	<ul style="list-style-type: none"> <li>This project takes into account some other initiatives happening in the area and connects where possible</li> <li>This project improves at least one other issues in the area</li> <li>The project is able to connect individuals involved with local resources</li> </ul>	<ul style="list-style-type: none"> <li>This project takes into account a full scan of other initiatives happening in the area and connects where possible</li> <li>The project has taken initiative to connect individuals involved with local resources to further develop their assets and strengths</li> <li>This project improves multiple other issues in the area</li> </ul>
Connectedness Score (whole number only):			
4			

Coverage			
1 - Needs Improvement	2 - Fair	3 - Good	4 - Excellent
<ul style="list-style-type: none"> <li>Other than the project this problem addresses, it is unknown what other problems exist in the community</li> <li>It is unknown if the project benefits the most vulnerable people in this</li> </ul>	<ul style="list-style-type: none"> <li>This project brings a solution to the a problem in this community, but there are many larger problems the members are experiencing</li> <li>This project does not benefit the most</li> </ul>	<ul style="list-style-type: none"> <li>This project brings a solution to the one of the most difficult problems this community is facing</li> <li>This project benefits the most</li> </ul>	<ul style="list-style-type: none"> <li>This project brings a solution to the most difficult problem this community is facing as evidenced by qualitative or quantitative data</li> <li>This project benefits the most vulnerable</li> </ul>





# Mangalam College of Engineering

Kottayam, Kerala, India

Department of Electrical and Electronics Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms, ...*Phojil*...*K. Paul*.....  
of...*Mangalam*...*College*...of...*Engineering*...*Kottayam*.....has  
participated in the "Five days FDP on Research Methodology- Writing  
Effective Research Articles" organized by Department of Electrical and  
Electronics Engineering, Mangalam College of Engineering, held on 26<sup>th</sup>  
February to 2<sup>nd</sup> March, 2018.

**Dr. T.D. Subash**  
Convenor

**Prof. Benny K.K**  
HOD/EEE

**Dr. Paulose M.M**  
Principal

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Tirumanoor











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**Marketing In Entrepreneurship -  
Participants**

Reg. No.	Name of the Student
MLM17MBA01	ABHIJITH ANILKUMAR
MLM17MBA03	AISWARYA ANIL
MLM17MBA04	AKHILA JOSEPH
MLM17MBA05	AKHIL K P
MLM17MBA06	AKHIL KUMAR M A
MLM17MBA07	AKHIL P S
MLM17MBA08	AKHIL V S
MLM17MBA09	AKSHAYA SAJEEV
MLM17MBA10	AMALA ROSE GEORGE
MLM17MBA11	AMAL K VARGHESE
MLM17MBA12	ANJALY SUKUMARAN
MLM17MBA13	ANJITHA N P
MLM17MBA14	ANOOP M PILLAI
MLM17MBA15	ANSILA A
MLM17MBA16	AROMAL JOSEPH
MLM17MBA17	ARUN RAJ B
MLM17MBA18	ARYA P RAJU
MLM17MBA19	ASHLY XAVIOUR
MLM17MBA20	ASHWIN SABU OOMMEN T
MLM17MBA21	BINAL K BINOY
MLM17MBA22	BINIMOL KURIAN
MLM17MBA23	CHINCHU C K
MLM17MBA24	CHIPPY RAJAN
MLM17MBA25	DHANUSHA PRADEEP
MLM17MBA26	EMMANUVAL SEBASTIAN
MLM17MBA27	FEBIN BABU
MLM17MBA28	FEMYMOL M A
MLM17MBA29	GOVIND S UNNITHAN
MLM17MBA30	HARITHA HARESH
MLM17MBA31	JAYAKRISHNAN V
MLM17MBA32	JEFFIN S VARGHESE
MLM17MBA33	JIBIN K C
MLM17MBA34	JIJI MATHAI
MLM17MBA35	JINUMOL JOSEPH
MLM17MBA36	JOHN SIBIN JOSEPH
MLM17MBA37	Jomy Jose
MLM17MBA38	JOSMY JOY
MLM17MBA39	KANNAN M
MLM17MBA40	KARTHIK C NAIR
MLM17MBA41	KEVIN SAJU THOTTATHIL
MLM17MBA42	LAKSHMI PRAKASH
MLM17MBA43	LAKSHMI SANKAR
MLM17MBA44	MAHESWARY K M
MLM17MBA45	MINU MARIA MATHEW
MLM17MBA46	MOLGI GEORGE
MLM17MBA47	MONCE JOSEPH
MLM17MBA48	NEEMA S
MLM17MBA49	NEENU SURESH

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MLM17MBA50	NEHA THANKACHAN
MLM17MBA51	NIDHIN BABY
MLM17MBA52	NIMISHA ELSA RAJ
MLM17MBA53	POOJA SURESH
MLM17MBA54	PREJITH THARCHIS
MLM17MBA55	RAINU SARA ABRAHAM
MLM17MBA56	SANGEETHA SATHYAN
MLM17MBA57	SARIN SANTHOSH GEORGE
MLM17MBA58	SHEHIN B
MLM17MBA59	SIBLE MATHEW
MLM17MBA60	SNEHA BABY
MLM17MBA61	SREELEKSHMY B
MLM17MBA62	SRUTHI T S
MLM17MBA63	SRUTHY S ANIL
MLM17MBA64	SRUTHY S THOPPIL
MLM17MBA65	SWETHA AJITHKUMAR



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**REPORT**

**CONDUCTED BY MANGALAM MANAGEMENT STUDIES ON DATE OF 3/10/2018**

**HOSTED BY**

**DR. JOHN T VARUGHESE DEAN-MBA DEPARTMENT**

**TOPIC COVERD: Marketing In Entrepreneurship**

**EXPERT SPEAKER**

**Mr James Joseph, CEO, Jackfruit 365**

**ATTENDED: 64 STUDENTS**

**MANAGALAM EDUCATION SOCIETY ETTUMANOOR, KOTTAYAM**



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## BRIEF REPORT OF HOW TO CONDUCT MARKETING IN ENTREPRENEURSHIP

A seminar on the topic "How to conduct marketing in Entrepreneurship" amongst Students was organized by the Mangalam Management Studies with guidance of Respected Dean Dr. John T Varughese and Mr James Joseph, CEO, Jackfruit 365

In the beginning of the webinar, welcome note was conducted Ms. Meera Premakumar had invited Dr. John Varughese for explaining about the content of the event and relevant will for the students, who starting their next phase their career.

After that we have invited the Expert Speaker of the day Mr. Mr James Joseph,, he has firstly gone through his journey Services and how he has climbed the steps of his career advancements. He explained the importance of marketing in Entrepreneurship, it is going be most important aspect where students will understand how their Strengths can be converted to Opportunities and how they can successfully remove their weakness and threats for their progression.

He informed the students, should possess information on current business affairs. They should procure knowledge on different kind of industries and their survival stories especially during this pandemic scenario. During this phase there are lot of industries boomed and same time some have gone down.

After the session there where Q&A sessions, majority of the students have asked their concerns, especially how to get placed on MNC's, topics covered on GD and tips for cracking the interviews and at same time how to get registerd under TCS portal.

After the Q&A session, few students randomly has given feedback about the session and how it helped them to get rid of fear of placements.

For honoring the Guest Speaker, Ms. Kristian Susan, has given Vote of Thanks and we concluded the session by showing our gratitude to the Guest who has taken an hour from his busy schedule.

  
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2021-2022

