



# Mar Ephraem

## College of Engineering & Technology

Run by Catholic Diocese Of Marthandam | Approved by AICTE |

Affiliated To Anna University, Chennai | Accredited by NAAC |

Malankara Hills, Elavuvilai, Marthandam - 629 171, Kanyakumari District, Tamil Nadu.

Web: [www.marephraem.edu.in](http://www.marephraem.edu.in), Ph: 04651 - 271111, 273111, Fax: 04651 - 270158, e-mail: [marephraem@gmail.com](mailto:marephraem@gmail.com)

### Centre for Research and Development

22.04.2021

#### CIRCULAR


This is to inform you that the **Centre for Research and Development** has planned to conduct its committee meeting on **30.04.2021** through Google Meet joining info Video call link: <https://meet.google.com/wsc-iawn-ruc> at **11:30 AM**. All are requested to participate.

  
Co-ordinator  
[**DR. J. JERUSALIN CAROL**]

Copy to : 1. Academic Director

2. All Research committee members

3. All HoDs

  
Prof. Dr. A. Lenin Fred, M.E., Ph.D.  
PRINCIPAL  
MAR EPHRAEM COLLEGE  
OF ENGINEERING & TECHNOLOGY  
MALANKARA HILLS, ELAVUVILAI, MARTHANDAM - 629 171  
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Ref : MECET/CRD/2020-21/MM-01

Dated : 30.04.2021

### Minutes of the Meeting - 01

**Date of Meeting: 30.04.2021**

**Time: 11:30 AM**

The co-ordinator Dr. J. Jerusalin Carol welcome the members and briefing about the agenda

#### **Agenda:**

- 1. Review for project funded by Science and Heritage Research Initiative (SHRI –DST)**
- 2. Project funded by DST-Agro Tech**
- 3. Academic research**

#### **Minutes:**

The previous meeting minutes were read and approved

#### **Review for project funded by Science and Heritage Research Initiative (SHRI –DST)**

The committee appreciates the team and reviews the task which was categorised into four depending on the traditional heritage of the Kanya Kumari Kaani tribals.

- i) Amelioration of Tribe's Traditional Virgin Oil Extracting Practice – Mr. Leo Bright Singh and team (Mar Ephraem College of Engineering and Technology)
- ii) Reinforcement of Conventional Palm Jaggery Making of Tribes with Automatic Temperature Controlled Furnace Technology – Dr. J. Jerusalin Carol and team (Mar Ephraem College of Engineering and Technology)
- iii) Digital Documentation of Kaani Tribal Traditional Cultural Practices – Mr. C. Gigin Durai and team (Mar Ephraem College of Engineering and Technology)



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- iv) Modernization of Tribe's Ancestral Coconut Shell Craft – Mr. Lalin L Laudis and team (Mar Ephraem College of Engineering and Technology)

### Project funded by DST-Agro Tech

The Committee appreciates the team and split the task into two modules

- Develop an automatic nutmeg harvesting system
- Develop an image processing algorithm for the identification of mature nutmeg

The committee recommends the team to visit various Kerala Agriculture University and nutmeg growers, in order to know the various varieties of nutmeg and challenges they find in harvesting the mature nutmeg.

### Academic research progress review

All the research scholars presented their research progress.

The chairman appreciated the co-ordinator and all the members for the achievements and the progress in the funded projects

S. No.	Name of member	Designation in the committee	Signature
1.	Dr. A. Lenin Fred	Chair Person	
2.	Dr. J. Jerusalin Carol	Co-ordinator	
3.	Mrs. Anne GS Sheaba	Member	
4.	Mrs. Ashy V Daniel	Member	
5.	Mr. Leo Bright Singh	Member	
6.	Mr. C. Gigin Durai	Member	





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7.	Mr. Lalin L Laudis	Member	
8.	Mr. Anish John Paul	Member	
9.	Dr. R. Melba Kani	Member	
10.	Mr. John Pradeep	Invitee	
11.	Mr. Jalbin	Invitee	
12.	Ms. Anu Jemila GR	Invitee	
13.	Ms. Christina Jane I	Invitee	
14.	Mr. Ajay Kumar	Invitee	
15.	Mr. Sherin Paul	Invitee	

Co-ordinator  
[DR. J. JERUSALIN CAROL]

Prof. Dr. A. Lenin Fred, M.E., Ph.D.  
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### Centre for Research and Development

25.05.2021

#### CIRCULAR

This is to inform you that the **Centre for Research and Development** has planned to conduct its committee meeting on **02.06.2021** through Google Meet joining info Video call link: <https://meet.google.com/crr-hnxs-dqk> at **10:00AM**. All are requested to participate.

  
Co-ordinator  
[DR. J. JERUSALIN CAROL]

Copy to : 1. Academic Director

2. All Research committee members

3. All HoDs

  
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Ref : MECET/CRD/2020-21/MM-02

Dated : 02.06.2021

### Minutes of the Meeting - 02

**Date of Meeting: 02.06.2021**

**Time: 10:00 AM**

The co-ordinator Dr. J. Jerusalin Carol welcome the members and briefing about the agenda

#### **Agenda:**

- 1. Review meeting for the project funded by DST-Agro Tech**
- 2. Review of the projects in New Gen IEDC**
- 3. Academic research progress review**

#### **Minutes:**

The previous meeting minutes were read and approved

#### **Review meeting for the project funded by DST-Agro Tech**

The committee appreciates Mr. John Thangam and team for the development of good prototype for the automatic hydroponic feeder for cattle. The committee recommends the team to make modifications in the weight of the feeder tray and in the conveyor system setup.

#### **Review of the projects in New Gen IEDC**

The committee reviewed the presentations made by the project teams and recommended the IEDC co-ordinator to file patents for the projects which had a good proof of concept.

#### **Academic research progress review**

All the research scholars presented their research progress.

The chairman appreciated the co-ordinator and all the members for the achievements and the progress in the funded projects





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## College of Engineering & Technology

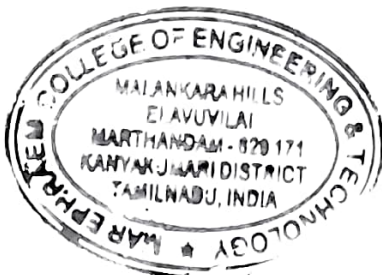
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2.	Dr. J. Jerusalin Carol	Co-ordinator	
3.	Mrs. Anne GS Sheaba	Member	
4.	Mrs. Ashy V Daniel	Member	
5.	Mr. Leo Bright Singh	Member	
6.	Mr. C. Gigin Durai	Member	
7.	Mr. Lalin L Laudis	Member	
8.	Mr. Anish John Paul	Member	
9.	Dr. R. Melba Kani	Member	
10.	Mr. John Pradeep	Invitee	
11.	Mr. Jalbin	Invitee	
12.	Ms. Anu Jemila GR	Invitee	
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Co-ordinator  
[DR. J. JERUSALIN CAROL]



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### Centre for Research and Development

28.05.2021

#### CIRCULAR


This is to inform you that the **Centre for Research and Development** has planned to conduct its committee meeting on **03.06.2021** through Google Meet joining info Video call link: <https://meet.google.com/kte-jean-eqs> at **11:30 AM**. All are requested to participate.

  
Co-ordinator  
[DR. J. JERUSALEM CAROL]

Copy to : 1. Academic Director

2. All Research committee members

3. All HoDs

  
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Ref : MECET/CRD/2020-21/MM-03

Dated : 03.06.2021

### Minutes of the Meeting - 03

**Date of Meeting: 03.06.2021**

**Time: 11:30 AM**

The co-ordinator Dr. J. Jerusalin Carol welcome the members and briefing about the agenda

#### **Agenda:**

1. Review of project funded by SHRI-DST
2. Review of project funded by DST-Agro Tech
3. Academic research progress review

#### **Minutes:**

The previous meeting minutes were read and approved

#### **Review of project funded by SHRI-DST**

The committee reviewed the task which was assigned to different teams and appreciated the teams for their technological contributions towards the preservation of our traditional methods and the scientific reason behind it.

- i) Digital documentation of Ancient Arts and Cultural Heritages – Mr. C. Gigin Durai and team (Mar Ephraem College of Engineering and Technology)
- ii) Technological Intervention for Traditional Furniture Making – Mr. Lalin L Laudis (Mar Ephraem College of Engineering and Technology)
- iii) Intervening Pottery Production with Automation – Mr. Leo Bright Singh (Mar Ephraem College of Engineering and Technology)

**Prof. Dr. A. Lenin Fred, M.Sc., Ph.D.**  
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- iv) Technology Support to Reinstitute Tribe's Traditional Areca Leaf with automated machine – Mr. Leo Bright Singh





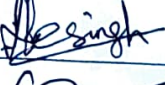

### Review of project funded by DST-Agro Tech

According to the recommendations of the committee the team had visited KAU, and few nutmeg growers like Thiru. O.V.R Somasundaram the leading planter cultivating coconut and other plantation crops like nutmeg, cocoa, pepper under mixed cropping system. Mr. Jose Mathew who is the copy right owner of kochukudy nutmeg variety. The database on different varieties were collected and the images were used for testing the various image processing algorithms.

### Academic research progress review

All the research scholars presented their research progress.

The chairman appreciated the co-ordinator and all the members for the achievements and the progress in the funded projects

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Co-ordinator  
[DR. J. JERUSALIN CAROL]

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