



### 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, Ph: 04651 - 271111, 273111, Fax: 04651 - 270158, e-mail: marephraem@gmail.com

### **Centre for Research and Development**

07.08.2017

#### **CIRCULAR**

This is to inform you that the Centre for Research and Development has planned to conduct its committee meeting on 16.08.2017 at 2:30 PM. All are requested to participate.

Co-ordinator
[Ms. 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.

Prof. Dr. A. Lenin Fred, M.E., Ph.D.

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OF ENGINEERING MARHANIA

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Ref: MECET/CRD/2017-18/MM-01

### Minutes of the Meeting - 01

**Date of Meeting: 16.08.2017** 

Dated: 16.08.2017

Time: 2:30 PM

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

#### Agenda:

- 1. First year progress review of State Science and Technology Program (SSTP) funded by DST
- 2. First year progress review of Instrument Development Program (IDP) funded by DST
- 3. Progress Review of Respond Project Funded by ISRO

#### Minutes:

## <u>First year progress review of State Science and Technology Program</u> (SSTP) funded by <u>DST</u>

The Project Co-ordinator Mr. Jackson Thanga Roy presented the first year progress of the rubber tapping machine. The field visit was completed and the initial design of the prototype were completed

## First year progress review of Instrument Development Program (IDP) funded by DST

The Project Co-ordinator Mr. S.N. Kumar presented the first year progress of the Portable Instrument for Medical Image Analysis, Compression and Transmission compatible for CT/MRI low slice thickness images. The dataset were collected from various scan centers and hospital with the help



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of one of the Co-PI Dr. Sebastin. Mr. S.N. Kumar presented the proposed algorithms for pre-processing.

## Progress Review of Respond Project Funded by ISRO

The Project Manager Mr. Kesava Prasath presented the outcome of the CUS-SOFT and the committee recommend the project team to collect the feedback from all the stack holders of CUS-SOFT and prepare the Beta version of the software.

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	00
2.	Ms. J. Jerusalin Carol	Co-ordinator	
3.	Mrs. Ashy V Daniel	Member	Admy
4.	Mr. Jackson Thanga Roy	Member	Mana
5.	Mr. S.N. Kumar	Member	S.N. Kumas
6.	Mr. Babin T Praise	Member	Proces
7.	Mr. Kesava Prasath	Invitee	Kersun

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Prof. Dr.

Co-ordinator
MS. J. JERUSALIN CARO



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### **Centre for Research and Development**

12.02.2018

#### CIRCULAR

This is to inform you that the Centre for Research and Development has planned to conduct its committee meeting on 19.02.2018 at 10:00AM. All are requested to participate.

Co-ordinator MS- 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.

Prof. Dr. A. Lenin Fred, M.E., P



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Ref: MECET/CRD/2017-18/MM-02

/MM-02 Dated: 19.02.2018

#### Minutes of the Meeting - 02

Date of Meeting: 19.02.2018 Time: 10:00 AM

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

#### Agenda:

- 1. Respond to the commands from EDI Ahmadabad and NSTEDB
- 2. Planning for the new project funded by Device Development Program of DST
- 3. Research Collaboration with Regional Cancer Center (RCC)
  Trivandrum
- 4. Collaborative research with NTU Singapore
- 5. Progress review of project funded by Instrument Development Program of DST
- 6. Collaborative Research with RGCB
- 7. Modified proposal to SEED program of DST
- 8. Progress review of project funded by State Science and Technology Program of DST
- 9. Academic research progress review

#### Minutes:

The previous meeting minutes were read and approved

#### Respond to the commands from EDI Ahmadabad and NSTEDB

The committee analysed all the commends given by EDI and request all the departments to send all the photos and reports regarding the labs and try to send the reply mail to EDI today itself.



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#### Planning for the new project funded by Device Development Program of DST

The committee appreciate the project team members for getting the grand from DST. The tasks were split and assigned responsible person for all the task.

#### Literature survey

- o Mr. Lalin L. Laudis Robotic Arm
- Mrs. Anne G S Sheaba Embedded system used for control moisture sensor
- Mrs. C.T. Lincy NPK Sensor for determining soil Nutrientss
- Mrs. C. T. Herlin Wireless sensor network for multicrop farming
- o Mr. P. John Thangam Farming for multicrop

## Research Collaboration with Regional Cancer Center (RCC) <u>Trivandrum</u>

The committee asked Mr. Ajay Kumar to contact Dr. Thya Singh Eliyas Scientist RCC to collect the dataset.

### Collaborative research with NTU Singapore

Collect MRI brain images from valid database in internet for the validation of our algorithms. The committee recommends Mr. Ajay Kumar to visit the project team at NTU Singapore in the month of March 2018.

## Progress review of project funded by Instrument Development Program of DST

The committee appreciated the progress of the funded project funded by IDP-DST the committee asked the team members to prepare the report and sent to DST before month of April 2018.



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#### Collaborative Research with RGCB

The mail has to be communicated to Dr. Santhosh regarding the collaborative research possibilities with RGCB

#### Modified proposal to SEED program of DST

Design the initial level of prototype of solar powered dobby cart, based on the experiments the modified proposal should be sent to DST

### <u>Progress review of project funded by State Science and Technology</u> <u>Program of DST</u>

The committee appreciated the progress of the funded project funded by SSTP and request the project team to prepare manuscript for peer reviewed journals.

#### 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.	Ms. J. Jerusalin Carol	Co-ordinator	
3.	Mrs. Ashy V Daniel	Member	Ashy
4.	Mr. Jackson Thanga Roy	Member	Thongon Say
5.	Dr. R. Melba Kani	Member	Carl



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6.	Mr. S.N. Kumar	Member	G.N. Kum
7.	Mr. Babin T Praise	Member	Da
8.	Mr. Aurthur Vasanth	Member	Auns
9.	Mr. Anish Johnpaul	Invitee	Anish
10.	Mr. Ajay Kumar	Invitee	

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\_ Co-ordinator MS-J. JERUSALIN CAROL



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26.03.2018

#### **CIRCULAR**

This is to inform you that the Centre for Research and Development has planned to conduct its committee meeting on 04.04.2018 at 10:00 AM. All are requested to participate.

Co-ordinator

Ms. 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.

Prof. A. Lenin Fred. M.E., Ph.D.

Prof. Dr. A. Lenin Fred. M.E., Ph.D.

Prof. Dr. A. L



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Ref: MECET/CRD/2017-18/MM-03

Dated: 04.04.2018

#### Minutes of the Meeting - 03

**Date of Meeting: 04.04.2018** 

Time: 10:00 AM

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

#### Agenda:

- 1. The team has to visit L110 team in ISRO
- 2. Initial work for the SEED program of DST
- 3. Preparation of PPT for IEDC proposal
- 4. Modified proposal for Centre for Fire, Explosive and Environment Safety (CFEES)-DRDO
- 5. Collaborative with Eureka Forbes Bangalore
- 6. Action plan for the project funded by DDP-DST
- 7. Preparation of NCSTC Project with Kanyakumari kaani tribal community
- 8. Academic research progress review

#### Minutes:

The previous meeting minutes were read and approved

#### The team has to visit L110 team in ISRO

The Project team was asked to discuss with the L110 team of ISRO to get the requirements for CUS-SOFT. The summary of the specification report has to be submitted on 10.04.2018.

#### Initial work for the SEED program of DST

The project team was asked to have field visit and discuss with their future beneficiary regarding the challenges, based on that the proposal should be modified and an initial experimental setup should be prepared for the same. For financial assistance the team has to get the approval from the principal.



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## Preparation of PPT for IEDC proposal

Mr. Lalin L Laduis and Mr. C. Gigin Durai were asked to prepare the NewGen IEDC project proposal presentation in consultation with the Mar Ephraem EDC team

## Modified proposal for Centre for Fire, Explosive and Environment Safety (CFEES)-DRDO

The DRDO team presented the proposal for CFEES and they were asked to send the modified proposal to Dr. Roy of CFEES at the earliest.

## Collaboration with Eureka Forbes Bangalore

The Co-ordinator Ms. Shobana of CSE department was asked to analyse the existing Eureka Forbes product send by them and communicate with Mr. Satheesh of Eureka Forbes and also it was advised to have a skype meeting with Mar Ephraem team Prof. Dr. V. Suresh, Mr. Babin T Praise, Ms. Shobhona, Mr. John Pradeep

## Action plan for the project funded by DDP-DST

The team was asked to design a soil test sample kit for using in the fields which should be portable, user friendly and which is suitable for all types of soil. The detailed literature survey has to be done in the automatic NPK sensor.

## Preparation of NCSTC Project with Kanyakumari kaani tribal community

The team was constituted with Mr. Gigin Durai, Dr. V. Suresh and Mr. Lin. They were asked to identify the challenges from kaani tribal community which need technology intervention, so they may be allowed for multiple field visits to kaani tribal settlements. Finally they were asked to submit the proposal to NCSTC-DST at the earliest.

## 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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5.	Dr. R. Melba Kani	Member	
6.	Mr. S.N. Kumar	Member	5.N. Kum
7.	Mr. Babin T Praise	Member	
8.	Mr. Gigin Durai	Member	(Qu
9.	Mr. Lalin L Laduis	Member	Jaj Jag
10.	Mr. Anish Johnpaul	Invitee	Drish
11.	Mr. John Pradeep	Invitee	-8 hug
12.	Ms. Shobana	Invitee	
13.	Mr. Rajeev	Invitee	Thy
14.	Mr. Kesava Prasath	Invitee	Kern
15.	Ms. Austy B Evangeline	Invitee	s. Sturty
16.	Dr. V. Suresh	Invitee Ered, M.E.	<b>G</b>
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Co-ordinator Ms. J. JERUSALW CAROL