



# RESEARCH & DEVELOPMENT CELL

## COMMITTEE MEMBERS

2020-21

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Dr. Richard Pinto  
Dean, Research

  
Dr. Peter Fernandes  
Principal  
PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K.

February 06, 2021

## Minutes of meeting

Minutes of the meeting held on February 6, 2021 at 2.30PM

### Agenda

- 1) Finalisation and submission of DST-SERB Projects
- 2) Finalisation of VTU, VGST and IDEALAB Proposals
- 3) Plans to setup thin film growth laboratory at ACAR

Members Present: Principal, Dean Research, Heads of the department and other members.

At the outset, Dean Research welcomed the members present.

- 1) **Finalisation and submission of DST-SERB Projects:** Dean Research stated that as discussed in the previous meeting, dated September 05, 2020, the two research project proposals have to be submitted to DST-SERB-CRG in the area of hydrogen fuel cells in collaboration with TIFR Mumbai and IITB Mumbai. The committee decided to submit two project proposals to DST-SERB-CRG with a PI from IITB in photo-catalytic hydrogen fuel cell project proposal and a PI from AIET in a high efficient hydrogen fuel cell project proposal.
- 2) **Finalisation of VGST, VTU and Idea Lab Proposals:** It was decided to submit following proposals to VGST under different schemes.

Sl. No	Project Title	Name of the faculty
1	Monitoring Food Adulteration in Liquid Dietary Produce Using Earth's Field Nuclear Magnetic Resonance (EFNMR) Spectroscopy as a Non-Destructive Testing (NDT) Tool	Dr.Shashi Kumar Kumara Swamy Dept. of Engineering Physics
2	A Study On Soil Degradation And Groundwater Contamination Through Leaching Of Sewage And Industrial Waste Water From Unlined Drains In Mangalore	Dr.Umeshchandra HG Dept. of Civil Engineering
3	Development of hydrogen fuel cells using UV irradiated nafion membrane for powering automobiles	Dr.Jayarama A Dept. of Engineering Physics

4	Assessment of Wetting behavior, Evolution of Intermetallic Compounds, Mechanical properties and Ductile to Brittle transition temperature of Pb-free solder alloys for Electronic Applications	Dr.Satyanarayan Dept.of Mechanical Engineering
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Dean research stated that VTU has given a special call under research grant scheme upto a total funding of Rs. 25Lakhs with 25% contribution from management. After discussion it was decided to submit the following proposals under VTU-RGS scheme.

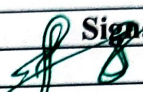
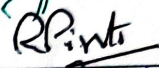
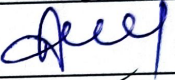

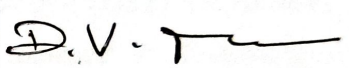

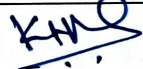
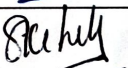

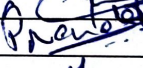
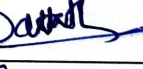
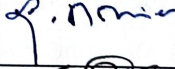

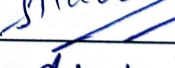


Sl. No	Title of Research Proposal	Investigators
1	Novel nanostructured photo catalyst assisted in-situ hydrogen generation in hydrogen fuel cells with laser micro-machined anode plate	Dr. Jayarama A (Principal Investigator) Dr. Richard Pinto (Co-Investigator)
2	Formation of nano-structured aluminum surface for realizing super-hydrophobicity using Nd:YAG laser	Dr. Satyanarayan (Principal Investigator) Dr. Jayarama A (Co-Investigator)
3	An IOT based Solution for providing Flood Alarming system for Netravathi and Gurupura Rivers	Dr. Kiran B. Malagi (Principal Investigator) Prof. Nagesh UB (Co-Investigator) Dr HG Umeshchandra Co-Investigator)

Dean research stated that AICTE has given a special call for supporting IDEA lab in private engineering institutions in the rural areas. The AICTE-IDEA lab is useful for all innovation and student projects of AIET and other neighboring institutes. The total budget proposed this project Rs. 100Lakhs with 50% contribution from management. It was decided to submit the proposal with Dr. Satyanarayan as Principal and Dr. Jayarama A as Co-coordinator.

- 3) **Plans to setup thin film growth laboratory at ACAR:** Dean research stated that in order to start thin film research work at Alva's Center for Advanced Research (ACAR) lab (Class Room 002) he requested Dr. Shshidhara Bhat, Alva's collage to install his spary pyrolysis setup obtained under VGST grant at ACAR lab. Dr. Shshidhara Bhat and also Dr. Kurian

(Principal of Alva's College) agreed to this proposal. Hence the equipment under this grant viz Spray pyrolysis setup, Furnace, compressor pump, H<sub>2</sub>, O<sub>2</sub> and nitrogen gas cylinders and test gases ammonia and H<sub>2</sub>S for gas sensor work. Dean Research also acknowledged that the donation of gas sensor measurement setup (Costing Rs. 1 Lakh) obtained from Excel Instruments, Navi Mumbai.

The meeting ended at 4.00 p.m.

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Prof. Ajith H Hebbar, Dept. of Civil Engineering	Member	
Dr. D V Manjunatha, Dept. of Electronics and Communication Engineering	Member	
Dr. Satyanarayan, Dept. of Mechanical Engineering	Member	
Harish Kundar, Dept. of Artificial Intelligence and Machine Learning	Member	
Prof. Sudheer Shetty, Dept. of Information Science and Engineering	Member	
Dr. Ramaprasad A T, Dept. of Physics	Member	
Dr. Ravi Kumar, Dept. of Chemistry	Member	
Dr. Prameela Kolake, Dept. of Mathematics	Member	
Dr. Dattathreya, Professor, Department of Electronics and Communication Engg.	Member	
Dr. S. Mohideen Badhusa Dept. of Computer Science Engineering	Member	
Dr. Jayarama A, Dept. of Physics	Member	
Dr. Shashi Kumar K, Associate Professor Dept. of Physics	Member	
Dr. H.G Umeshchandra, Dept. of Civil Engineering	Member	
Dr. Sakshi Kamath, Dept. of Chemistry	Member	