

**LIST OF CERD RESEARCH SEED MONEY PROPOSALS
SCHEDULED FOR PRESENTATION
OCTOBER 2019**

Architecture

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Smitha M V Asst Prof	An Assessment of Vulnerability of Fishermen community towards coastal hazards.	College of Engineering Trivandrum	05/11/2019 9.30am

Biotechnology

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Dr.Jaya Mary Jacob Assistant Professor	Development of biogenic carbon quantum dot based smart nanobionic systems for enhanced photosynthetic CO2 reduction.	Sree Buddha College of Engineering ,Pattoor	07-11-2019 2.30 PM

Chemical Engineering

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Saurabh Sahadev Assistant Professor	Adsorption studies using chitosan based nanosorbents.	GEC Thrissur	07-11-2019 2.30 PM
5	Adil Muhammed Assistant Professor	Cost effective Packed bed column with zinc oxide coated regenerated spent FCC catalyst system for the water treatment.	GEC Kozhikode	07-11-2019 2.30 PM

Civil Engineering

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Regi P Mohan Assistant Professor	Nano Chemical Stabilization of expansive Kuttanad Clays.	Sree Buddha College of Engineering ,Pattoor	05/11/2019 9.30am
2	Sreedevi A R Assistant Professor	Shear Behaviour of reinforced concrete beams using treated recycled concrete aggregate and steel fibres.	College of Engineering Trivandrum	05/11/2019 9.30am
3	Romana Mariyam Rasheed Assistant Professor	Evaluation of fatigue strength and durability of fibre reinforced lime stabilized Kuttanad soil.	TKM college of Engineering, Kollam	05/11/2019 9.30am

4	Athul M Madhu Assistant Professor	Development of Trophic State Index for freshwater and brackish lake ecosystems of Southern Kerala.	TKM college of Engineering, Kollam	05/11/2019 9.30am
5	Sai Niveditha M G Assistant Professor	Evaluation of Interface Shear Strength of Bituminous Layers.	TKM college of Engineering, Kollam	05/11/2019 9.30am
6	Hanna Paul Assistant Professor	Effect of Interference of Embankments when subjected to Loading.	SAINTGITS College of Engineering, Kottayam	05/11/2019 9.30am
7	Dr.Nimi Ann Vincent Assistant Professor	A Study on Potential Utilization of MICP on Weak Solids and A Preliminary Investigation on Application of MICP in Stabilisation of Foreshore Slopes.	Amal Jyothi College of Engineering	05/11/2019 9.30am
8	Rejoice Aleyamma Abraham Assistant Professor	Influence of stabilizer on soil curling phenomena	RIT Kottayam	05/11/2019 9.30am

Computer Science & Engineering

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Rahul C Assistant Professor	Bidirectional Sanskrit-Malayalam Neural Machine Translation(NMT)- Incorporation of Rules developed using Deep Learning	LBS College of Engineering, Kasaragod	05/11/2019 9.30am

2	Dr.Arathi T Assistant Professor	Deep Learning based Optimized Computer Aided Detection for Retinal Disease Screening	LBS College of Engineering, Kasaragod	05/11/2019 9.30am
3	Meharban M S Assistant Professor	Medical Image Synthesis Using Deep Learning	Rajagiri School of Engineering and Technology, Ernakulam	05/11/2019 9.30am
4	Dr.Rasmi P S Associate Professor	A Data Driven Patient Satisfaction Prediction System using Machine Learning Approach for Health care sector.	ToC H Institute of Science & Technology, Ernakulam	05/11/2019 9.30am
5	Ramesh R Assistant Professor	Epidemic Trend Analysis using Big Data Analytics.	Adi Shankara Engineering College, Ernakulam	05/11/2019 9.30am
6	Jacob P Cherian Assistant Professor	Qualitative Food Safety Risk Assessment using Artificial Intelligence.	SAINTGITS College of Engineering, Kottayam	05/11/2019 9.30am
7	Selvam E Assistant Professor	Query based Intelligent surveillance system for unusual activity detection among crowd.	SAINTGITS College of Engineering, Kottayam	05/11/2019 9.30am
8	Dr.Anju Pratap Associate Professor	Nightingale:Technology enabled portable assist system for nurses in Kerala.	SAINTGITS College of Engineering, Kottayam	05/11/2019 9.30am
9	Rinu Rose George Assistant Professor	A Lightweight Cryptography Technique for Implementing Security in IoT Generated Data.	ToC H Institute of Science & Technology, Ernakulam	05/11/2019 9.30am
10	Alphonsa Johny Assistant Professor	Efficient Big Data Processing Technique	St.Joseph's College of engineering & Technology Palai	05/11/2019 9.30am

Electrical & Electronics Engineering

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Peter K Abraham Assistant Professor	Ultracapacitor based range Extender for Electric Vehicle.	RIT Kottayam	01/11/2019 9.30am
2	Vijayasree G Assistant Professor	Design and Implementation of an Intelligent Fault Diagnosis System for multi phase PMSM.	College of Engineering Trivandrum	01/11/2019 9.30am
3	Dr.Shihabudheen P V Assistant Professor	High impedance fault detection using Wavelet transform.	TKM College of Engineering Kollam	01/11/2019 9.30am
4	Elizabeth Rajan Assistant Professor	Harmonic reduction in Solar Photo Voltaic System using packed U cell Multilevel Inverter.	Saintgits College of Engineering Kottayam	01/11/2019 9.30am
5	Vidhya M P Assistant Professor	Driver Assist For a better future.	NSS College of Engineering Palakkad	01/11/2019 9.30am
6	Jasna Basheer Assistant Professor	PV based Open well submersible sensor less BLDC Motor drive.	College of Engineering Perumon	01/11/2019 9.30am

7	Dr.Pinkymol K P Associate Professor	Development of an intelligent algorithm for monitoring of power quality issues in a 3-phase,400 V Microgrid System.	Saintgits College of Engineering Kottayam	01/11/2019 9.30am
8	Jineeth Joseph Assistant Professor	Development of an online monitoring scheme for partial discharge detection in transformer windings.	Saintgits College of Engineering Kottayam	01/11/2019 9.30am
9	Anjali Anand K Assistant Professor	Design and development of a reliable Cascaded H-bridge multilevel inverter-fed induction motor drive.	GCE Kannur	01/11/2019 9.30am

Electronics & Communication Engineering

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Darsana.S Assistant Professor	Nondestructive real time monitoring of nitrate in water using mobile phone	College of Engineering Chengannur	24/10/2019 9.30am
2	Deepak S Assistant Professor	Computer aided diagnosis and characterization of brain tumors.	GEC Idukki	24/10/2019 9.30am
3	Anuroop K B Assistant Professor	Implementation of a Deep learning based Waste segregation system using Computer vision and Robotics.	Adi Shankara Engineering College, Ernakulam	24/10/2019 9.30am

4	Neethu George Assistant Professor	AI Based Smart Irrigation System.	ToC H Institute of Science & Technology, Ernakulam	24/10/2019 9.30am
5	Anju George Assistant Professor	An efficient system for Power saving of electrical devices using Image processing.	Adi Shankara Engineering College, Ernakulam	24/10/2019 9.30am
6	Sreerag M Assistant Professor	Isolation Enhancement in multi antenna systems used for 5G systems using metamaterials.	Adi Shankara Engineering College, Ernakulam	24/10/2019 9.30am
7	Arya Paul Assistant Professor	Development of a smart portable IoT device for better diagnosis and control of asthma and COPD.	Adi Shankara Engineering College, Ernakulam	24/10/2019 9.30am
8	Sreelekshmi S Assistant Professor	Design and Development of a Wearable Antenna for Non-Invasive Glucose Monitoring	ToC H Institute of Science & Technology, Ernakulam	24/10/2019 9.30am
9	Shihabudeen H Assistant Professor	Deep learning based Fusion of infrared and visible images for intelligent traffic management in smart cities.	College of Engineering Kidangoor	24/10/2019 9.30am
10	Dr.Rahul Antony Assistant Professor	Design and Development of a Temperature Controlled Micro Chamber with precise monitoring and control for Lab-on-chip applications using MEMS.	Saintgits College of Engineering Kottayam	24/10/2019 9.30am
11	Michael George Assistant Professor	An automated video surveillance system using deep learning.	RIT Kottayam	24/10/2019 9.30am

Mechanical Engineering

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	DATE & TIME OF PRESENTATION
1	Arun Raphel Assistant Professor	Development of thermoelectric high entropy alloys for waste heat recovery using powder metallurgical route.	Viswajyothi College of Engineering and Technology	23/10/2019 9.30am
2	Dr. Trijo Tharayil Assistant Professor	Concrete roof cooling using nanoparticle coated heat pipes for sustainability.	Sree Buddha College of Engineering ,Pattoor	23/10/2019 9.30am
3	Richu Zachariah Assistant Professor	Development of a 24/7 solar dryer for domestic applications.	Amal Jyothi College of Engineering	23/10/2019 9.30am
4	Thomas Jacob Assistant Professor	Design, fabrication and performance analysis of desiccant based evaporative cooler for humid climates.	Mar Athanasius College of Engineering Kothamangalam	23/10/2019 9.30am
5	Jijo Johnson Assistant Professor	Experimental and Numerical Study on Natural Convection Cooling of High Power Electronic Devices in Enclosures.	Mar Athanasius College of Engineering Kothamangalam	23/10/2019 9.30am
6	Denix M Sebastian Assistant Professor	Develop an advanced Negative Pressure Wound Therapy Machine at low cost.	St.Joseph's College of engineering & Technology Palai	23/10/2019 9.30am
7	Justin Jose Assistant Professor	Experimental investigations and performance optimization of the bipolar plates of Direct Methanol Fuel Cells.	St.Joseph's College of engineering & Technology Palai	23/10/2019 9.30am

8	Anooplal B Assistant Professor	Phase change material (PCM) based Thermal Management of Li-ion Battery: An experimental investigation.	St.Joseph's College of engineering & Technology Palai	23/10/2019 9.30am
9	Pradeep P V Assistant Professor	Additive Manufacturing of biodegradable and photocurable elastomer and polymer-based composites.	St.Joseph's College of engineering & Technology Palai	23/10/2019 9.30am
10	Dr.Kiran Joy Irimpan Associate Professor	Needleless drug injector	Adi Shankara Engineering College, Ernakulam	23/10/2019 9.30am
11	Sunil Mathew Roy Assistant Professor	Structural health monitoring and damage assessment by the application of structural power flow and conventional acceleration.	Mar Athanasius College of Engineering Kothamangalam	23/10/2019 9.30am
12	Dr.Mubarak Ali M Assistant Professor	Direct solar heating aided vacuum bag curing process of glass fibre reinforced composite laminates.	TKM college of Engineering, Kollam	23/10/2019 1.00pm
13	Dr.Sabarinath S Assistant Professor	Characterization and formulation of an environment friendly lubricant from Pongamia (<i>Millettia Pinnata</i>) oil using biodegradable additives.	SAINTGITS College of Engineering, Kottayam	23/10/2019 1.00pm
14	Manu Remanan Assistant Professor	Radiation resistant material for cell phone and laptops based on polypropylene nanocomposites.	SAINTGITS College of Engineering, Kottayam	23/10/2019 1.00pm
15	Ajith Kuriakose Mani Assistant Professor	Mathematical modelling and parametric identification of a Magneto Rheological elastomer using fractional calculus.	SAINTGITS College of Engineering, Kottayam	23/10/2019 1.00pm
16	Abi Varghese Assistant Professor	Dethatch-the mid rib seperating machine.	Amal Jyothi College of Engineering	23/10/2019 1.00pm

17	Dr.Sajeesh P Assistant Professor	Development of an innovative evacuated tube heat pipe solar water heating system.	NSS College of Engineering Palakkad	23/10/2019 1.00pm
18	Shiblemon K V Assistant Professor	Investigations on Heat Transfer Enhancement in Micro Channel Heat sinks.	St.Joseph's College of engineering & Technology Palai	23/10/2019 1.00pm
19	Rittin Abraham Kurien Assistant Professor	Experimental Investigations on Nano-based Natural Fibre Composites for Commercial Applications: Development, Mechanical and tribological Property Estimation.	SAINTGITS College of Engineering, Kottayam	23/10/2019 1.00pm