

**LIST OF CERD RESEARCH SEED MONEY PROPOSALS
SCHEDULED FOR PRESENTATION
OCTOBER 2018**

Civil Engineering

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Dr.Resmi G Professor	Development of Bio Compost System for treating Degradable solid waste and production of manure	NSS College of Engineering	23/10/2018 9am
2	Dr. Girija K Asso Prof	A standardised cross section for restricted depth prestressed concrete road bridge superstructure over railway track	College of Engineering, Trivandrum	23/10/2018 9am
3	Sheena Hassan Asst Prof	Modelling of flow through Gabion Weirs	College of Engineering, Trivandrum	23/10/2018 9am
4	Dr Jisha S V Asst Prof	Seismic soil structure interaction response of structures subjected to pounding	Mar Baselious College of Engg Trivandrum	23/10/2018 9am
5	Jithin Kurian Andrews Asst Prof Dr Reebu Z Koshy Prof & Head (Co- Investigator)	Distress identification & estimation in flexible pavements using image processing	Saintgits college of Engg	23/10/2018 9am

Computer Science & Engineering

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Jincy J Fernandez Asst Prof Amitha Mathew Asst Prof (Co- Investigator)	Breast Cancer prediction and detection using Intuitionistic Fussy Sets	Rajagiri School of Engg & Technology	22/10/2018 9am
2	Dr. Preetha K G Asst Prof	A fuzzy based abandoned object detection	Rajagiri School of Engg &	

	Saritha S Asst Prof	using image fusion for intelligent video surveillance systems	Technology	22/10/2018 9am
3	Hareesh M J Asst Prof Asha Raj Asst Prof (Co- Investigator)	Intelligent traffic Analyzer	Rajagiri School of Engg & Technology	22/10/2018 9am
4	Dr. Jayasudha J S Prof	Interactive and informative learning using Augmented and Virtual Reality	SCT College of Engg Trivandrum	22/10/2018 9am
5	Geetha S Asst Prof	Automatic detection and classification of colon polyps from endoscopic/colonoscopic images	College of Engg, Karunagapally	22/10/2018 9am
6	Dr. Juby Mathew Asso Prof	Medical diagnosis system using multilinear principal component analysis and support vector machine	Amal Jyothi College of Engg	22/10/2018 9am
7	Dhanya P M Asst Prof	Criminal policing system	Rajagiri School of Engg & Technology	22/10/2018 9am
8	Dr. Jubilant J Kizhakkethottam Prof & Head Hari M Asst Prof (Co- Investigator)	Automated fresh water wastage prevention mechanism with quality management in households and industry	Saintgits college of Engg	22/10/2018 9am

Electrical & Electronics Engineering

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Jayasree M S Asst Prof Dr.Harikumar R Asst Prof (Co-Investigator)	Design and development of E-Waste PCB Component Separator and Segregator	College of Engineering, Trivandrum	24/10/2018 9am
2	Dr. Lal Priya P S	Design and Implementation of an energy	College of Engineering,	

	Asst Prof	efficient robust controller for an electric vehicle with In - Wheel motors	Trivandrum	24/10/2018 9am
3	Dr. Francis M Fernandez Asst Prof Anu G Asst Prof (Co - Investigator)	Quantification of Harmonic Injection in Power System using Non -Active Power Theory	College of Engineering, Trivandrum	24/10/2018 9am
4	Dr. Manoj Kumar M V Asso Prof	Power management in a grid integrated PV power system with hybrid energy storage	Govt College of Engg, Kannur	24/10/2018 9am
5	Dr. Anilkumar T T Asst Prof	Design and development of an energy management controller (EMC) for a microgrid with hybrid energy storage system	Govt College of Engg, Kannur	24/10/2018 9am
6	Dr. J S Savier Asst Prof	Design and development of a micro phasor measurement unit	College of Engineering, Trivandrum	24/10/2018 9am
7	Deepa M U Asst Prof	Solar assisted electric vehicle with one converter for charging and motor driving	College of Engineering, Trivandrum	24/10/2018 9am
8	Dr Sreeja S Asst Prof	Design and development of a humanoid robot	College of Engineering, Trivandrum	24/10/2018 9am
9	Dr Sheik Mohammed S Asst Prof	Design and development and analysis of DC microgrid with solar photovoltaic and electric vehicle	TKM College of Engg Kollam	24/10/2018 9am
10	Dr Bijuna Kunju Head of the dept	Self sustainable nanogrid for homes	TKM College of Engg Kollam	24/10/2018 9am
11	Ancy Sara Varghese Asst Prof Jineeth Joseph Asst Prof (Co- Investigator)	Development of an electromagnetic sensor based method for detection and localization of deformations in transformer windings	Saintgits college of Engg	24/10/2018 9am
12	Dr. Mahendran N	Design and development of solar photo	Saintgits college of Engg	

	Prof Dr. Pinkymol K P Asso Prof (Co- Investigator)	voltaic system with reduced current ripple KY boost converter		24/10/2018 9am
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Electronics & Communication Engineering

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Dr.Renu Jose Asst Prof	Machine Learning based Channel Equalization in Digital Communication Systems.	RIT Kottayam	25/10/2018 9am
2	Dr.Ragesh G.K Professor	Implementation of an autonomous Wireless Body Area Network(WBAN) for IoT enabled healthcare applications using wearable sensor node with solar energy harvesting	Adi Shankara Institute of Engg and Technology, Kalady	25/10/2018 9am
3	Prameela B Asso Prof	Design and analysis of Low noise amplifier for wireless application	Adi Shankara Institute of Engg and Technology, Kalady	25/10/2018 9am
4	Dr. Rajesh Cherian Roy Professor	Signal processing techniques for surface EMG signals to enable control of robotic exoskeleton	Adi Shankara Institute of Engg and Technology, Kalady	25/10/2018 9am
5	Dr . Venugopal G Asso Prof	Characterization of effect of muscle fiber types in fatigue progression using surface electromyography signals	NSS College of Engineering	25/10/2018 9am
6	Dhanoj M Asst Prof	Implementation of a novel controller for mixing two fluids in a food industry using two conical tanks	Vimal Jyothi Engineering College	25/10/2018 9am
7	Sindhu V Asst Prof	Enabling future broadband wireless networks	Adi Shankara Institute of Engg and Technology, Kalady	25/10/2018 9am

8	Dr. V Sampath Kumar Prof	Puttumatic - Automatic puttu making machine	Vimal Jyothi Engineering College	25/10/2018 9am
9	Dr. G Glan Devadhas Prof	Development of a smart SCADA structure for intelligent rainfall prediction in kerala and real time flood level alerting system	Vimal Jyothi Engineering College	25/10/2018 9am
10	Er. Harinarayanan Nampoothiri M G Asst Prof Dr. Godwin Anand P S Prof (Co- Investigator)	Mud and manhole cleaning robot with optimized control parameters	Saintgits college of Engg	25/10/2018 9am
11	Er. Vinayakumar B Asst Prof Dr. Godwin Anand P S Prof (Co- Investigator)	Power generation using controlled gravitational water vortex power plants(GWVPP) in rural waterbodies of kerala	Saintgits college of Engg	25/10/2018 9am

Food Technology

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Dr Harikrishnan Hariharan Asst Prof Girilal M Asst Prof (Co- Investigator)	Facile synthesis of pectin from orange peels and its cost effectiveness studies on extraction, characterization and application in food packaging	Saintgits college of Engg	22/10/2018 1pm
2	Lakshmi Mohan Asst Prof Jyothi K Nair Asst Prof (Co- Investigator)	Isolation and characterization of plastic degrading microbes	Saintgits college of Engg	22/10/2018 1pm
3	Dr. Girilal M Asst Prof Lakshmi Mohan Asst Prof (Co- Investigator)	Green formulation of bio-nanosensors using biogenic nanoparticles for rapid detection of food pathogens , heavy metals and pesticides from food and beverages	Saintgits college of Engg	22/10/2018 1pm

Chemical Engineering

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Suchith Chellappan Asst Prof Ajith C Asst Prof (Co- Investigator)	Development of biochar based heterogeneous acid catalyst for biodiesel production	Saintgits college of Engg	22/10/2018 1pm

Architecture

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Archana A P Asst Prof	Designing of building envelope through passive cooling strategies for warm humid climate	RIT Kottayam	22/10/2018 9am

Mechanical Engineering

Sl No	Name of Principal Investigator	Title	College	Date & Time of Presentation
1	Harish T V Asso Prof	Experimental Study of Changes in Micro Mechanism of Wear With Vibration in Stroke Length under Reciprocating Sliding Conditions of A390-SiCp AND A336-SiCp Composites.	College of Engineering, Trivandrum	26/10/2018 10 am
2	Harikrishnan C Asst Prof Dr. Thankachan T Pullan Asso Prof	Fabrication and Analysis of Al-Li Surface Composite Using Friction Stir Processing	Rajagiri School of Engg & Technology	26/10/2018 10 am

3	Dr. Jilse Sebastian Asso Prof	Experimental investigations on the performance and emission characteristics of CI engine fueled by plastic oil derived from polyethylene waste plastic	St . Josephs College of Engg Pala	26/10/2018 10 am
4	Shiblemon K V Asst Prof	Investigations on heat transfer enhancement in Micro/Meso Channel heat sinks	St . Josephs College of Engg Pala	26/10/2018 10 am
5	Dr. Lijo Paul Asso Prof	Experimental investigations and performance optimization of the micro abrasive jet machining	St . Josephs College of Engg Pala	26/10/2018 10 am
6	Dr. Sudheesh Kumar C P Asst Prof	Investigation of human body vibration to minimise occupational health hazards	Govt College of Engg, Kannur	26/10/2018 10 am
7	Justin Jose Asst Prof	Experimental investigations on a fuel cell stack of proton exchange membrane fuel cells (PEMFC)	St . Josephs College of Engg Palai	26/10/2018 10 am
8	K S Sajikumar Asst Prof	Experimental and numerical characterisation of a non contact handling device	College of Engineering, Trivandrum	26/10/2018 10 am
9	Ajo Jo Sankarathil Asst Prof Ladheesh V G Asst Prof (Co- Investigator)	Fabrication and characterisation of shape memory natural rubber based prosthetic valves	Saintgits college of Engg	26/10/2018 10 am
10	Dr Jacob T Varghese Asst Prof Er. Sajan Thomas Asst Prof (Co- Investigator)	Energy efficient green structures	Saintgits college of Engg	26/10/2018 10 am
11	Dr Biju B Asst Prof	Ergonomic indexing on the psycho-physiological behaviour of Indian heavy& medium commercial vehicle drivers	Mar Athanasius College of Engg	26/10/2018 10 am