

**LIST OF CERD RESEARCH SEED MONEY PROJECTS  
SCHEDULED FOR PRESENTATION IN THE COMMITTEE MEETING  
OCTOBER 2017**

**1. Computer Science**

SI No	Name of Principal Investigator	College	Title of the Project	Branch	Date of presentation
1	Dr.Shobhana N V Professor	RIT	Text Mining in Malayalam Documents.	CS	20-10-17 9.00am
2	Sminu Izudheen Asst Prof	RAJAGIRI	Study on effect of community structures in cancer protein identification using topological properties of protein-protein interaction networks	CS	20-10-17 9.00am
3	Leena Silvester Asst Prof	CE ATTINGAL	MRI analysis of lumbar disc degeneration	CS	20-10-17 9.00am

**2. Electronics & Communication**

SI No	Name of Principal Investigator	College	Title of the Project	Branch	Date of presentation
1	Dr.C.Sathish Kumar Prof E.Suresh Kumar Asso prof (Co-Investigator)	RIT	Identification of diseases in horticultural crops using image processibg techniques on plant leaves	EC	23-10-17 1.00pm
2	Dr.Nissan Kunju Asst Prof	TKMCE	Myoelectric control for grasping action in a prosthetic arm	EC	23-10-17 1.00pm
3	Dr.S.Swapnakumar Prof & HOD	VIDHYA	To develop a system based on image processing tools for real time monitoring of wear and tear of metal cutting blades	EC	23-10-17 1.00pm
4	Dr.Ansal K A Asst Prof Dr.Riboy Cherian Prof (Co-Investigator)	SAINTGITS	Design,development,characterization of CPW fed miniaturized antennas and filters for UWB application	EC	23-10-17 1.00pm

**3. Mechanical.**

SI No	Name of Principal Investigator	College	Title of the Project	Branch	Date of presentation
1	Dr.Baiju V Asst Prof	TKMCE	Development of solar vapour adsorption refrigeration system for low temperature applications	ME	20-10-17 9.00am
2	Dr.N.Ramachandran Prof & HOD in Mech	VIDHYA	Design and development of a welding attachment for low cost mechanization of manual welding system	ME	20-10-17 9.00am
3	Chacko Preno Koshy Asst prof	SAINTGITS	Synthesis of metal dichalcogenide nanoparticles and evaluation of their tribological and application in four-stroke petrol engine as an additive in	ME	20-10-17 9.00am

			coconut oil based nano-lubricants for the development of a sustainable and eco-friendly bio-lubricant		
4	Ranjith S Kumar Asst prof	CET	Design and development of integrated phoyolithography system for micro fluide applications	ME	20-10-17 9.00am
5	Dr.Anish K John Asst Prof	GECBH	Prototype Development and Performance Analysis of Reciprocating IC Engine with Axially Rotating Power Output Shaft.	ME	20-10-17 9.00am
6	Dr.Sudeep U Asst Prof	NSS	Development of novel Ti based implant surfaces with micro-textures for better osseointegration and antibacterial properties	ME	20-10-17 9.00am
7	Rajesh Baby Asso prof	ST JOSPHS	Experimental investigations and performance optimization of the bipolar plates of proton exchange membrane fuel cells	ME	20-10-17 9.00am
8	Dr.Muraleedharan Nair K Asso prof	MAR BASELIOS	An extensive study on self-sustained oscillation of open,closed rectangular and rounded cavity	ME	20-10-17 9.00am

#### 4. Electrical and Electronics

Sl No	Name of Principal Investigator	College	Title of the Project	Branch	Date of presentation
1	Muhammed Shanir P P Asst Prof Vishnu R Asst Prof (Co-Investigator) Dr.Muhammedali Shafeeque Asst Prof (Co-Investigator)	TKMCE	Development of prototype to induce induction healing in bituminous pavements	EE	17-10-17 9.00am
2	Dr.Mohanalini Raja Rathnam HOD,EEE	CE PATHANA PURAM	Production of Electricity from Latex (Rubber) for Serving Tribal Areas.	EE	17-10-17 9.00am
3	Anish Benny Asst prof Dept of EEE Dr.Soney Chathukulam George HOD Dept of Basic Science (Co-Investigator)	AMAL JYOTHY	Graphene-PANI Composite Material Development for Supercapacitor.	EE	17-10-17 9.00am
4	Arun S Asst Prof	AMAL JYOTHY	Study the feasibility of PV parallel connected configuration for residential application and implementation of a high step-up high efficiency DC to DC converter based power processing system	EE	17-10-17 9.00am
5	Dr.Sobha A P Asso Prof	VIDHYA	Development of electromagnetic interference shielding gaskets from polyaniline wrapped grapheme nano	EE	17-10-17 9.00am

	Dr.Nirmal Madhu Asso Prof (Co-Investigator)		sheet/polyurethane composites		
6	Arun Sebastian Asst Prof  Polly Thomas (Co-Investigator)	SAINTGITS	A Benchmark Experiment for Eddy Current Measurement on Metallic Surfaces During High Power Applications.	EE	17-10-17 9.00am
7	Dr.V R Jisha Asso Prof	CET	An autonomous quad copter based delivery system	EE	17-10-17 9.00am
8	Renjini G Asst prof	NSS	Enhancing reliability of fuel cell vehicles through voltage regulation	EE	17-10-17 9.00am

## 5. Civil

Sl No	Name of Principal Investigator	College	Title of the Project	Branch	Date of presentation
1	Vishnu R Asst Prof	TKMCE	Evaluation of Rutting Potential of Bituminous Mixes Using Refusal Density Approach.	CE	19-10-17 9.00am
2	Dr.Indu M S Asst Prof	TKMCE	Degradation of industrial waste water using hybrid electrocoagulation-photocatalytic oxidation system	CE	19-10-17 9.00am
3	Dr.Mini Mathew Asso Prof	AMAL JYOTHY	Bio-composting of organic waste by fungi,biochar and rumputan peel	CE	19-10-17 9.00am
4	P S Abhilasha Asso Prof in Civil K.S.Sherin Asst Prof Civil (Co-Investigator) Pisharikkel Seetha Asst Prof Civil (Co-Investigator)	VIDHYA	Application of Geotextiles as Filter in Embankment Dams	CE	19-10-17 9.00am
IL	Milu Mary Jacob Asst Prof	SAINTGITS	Structural response of composite metal deck and concrete filled slabs as floor diaphragms and shear walls.- An experimental study	CE	19-10-17 9.00am
6	Dr.Priyadarsini R.S Asso Prof	CET	Behaviour of cement concrete under elevated temperatures.	CE	19-10-17 9.00am
7	Dr.Bindhu K R Asso Prof	CET	Performance of shearwall with debonded reinforcement under seismic type loading	CE	19-10-17 9.00am

## 6. Chemical

Sl No	Name of Principal Investigator	College	Title of the Project	Branch	Date of presentation
1	Dr.M S Giri Nandagopal Asst Prof	SAINTGITS	Experimental investigation on nano photocatalytic degradation of ammonia expulsing from latex industry effluent	CHEM	17-10-17 9.30am