

OFFICE OF THE DEAN (R&C)
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
Schedule of Faculty Research Seed Grant (FRG) Proposal Presentations

13-5-2019 (MONDAY)

Sl. No.	Project Number	Name & Dept.	Title of the Project Proposal	Time
	Architecture and Planning			
1	FRG/2019/ARCHI/01	Dr. Anjana Bhagyanathan, Archi	Impact of Landuse Landcover changes on Hydrology of South Western Ghats	9 AM-9.15 AM
2	FRG/2019/ARCHI/02	Dr. Deepthi Bendi, Archi	Roadmap for Adoption of Off-Site Construction Technologies in the Housing Sector, India	9.15 AM-9.30 AM
	Chemical Engg			
3	FRG/2019/CHED/05	Dr. Noel Jacob Kaleekkal, CHED	Membrane based technology	9.30 AM-9.45 AM
4	FRG/2019/CHED/06	Dr. Panneerselvam Ranganathan, CHED	Reactor Development for Hydrothermal Liquefaction of Microalgae	9.45 AM-10 AM
5	FRG/2019/CHED/07	Dr. Prasanna Kumar S Mural, CHED	Electrospun Nanofibers	10 AM-10.15 AM
6	FRG/2019/CHED/08	Dr. Sudev Das, CHED	Fabrication, Synthesis and Performance Analysis of Nano-engineered Surface for Cooling of Nano Electric Device Application	10.15 AM-10.30 AM
7	FRG/2019/CHED/09	Dr. Susmitha Das, CHED	Nanotechnology-Microfluidic Photocatalytic Degradation of Dyes Exploiting ZnO.CuO Nanocomposite	10.30 AM-10.45 AM
8	FRG/2019/CHED/10	Dr. Vakamalla Tejaswi Sreeram Kumar Reddy, CHED	Classification of Iron ore slimes using Hydrocyclones	10.45 AM-11 AM
	Chemistry			
9	FRG/2019/CHEM/11	Dr. Janardhan Banothu, Chemistry	Novel Fused Imidazole – Coumarin Hybrids: Synthesis, Characterisation, Antimicrobial Investigation and Structural – Activity Relationship Studies	11 AM-11.15 AM
10	FRG/2019/CHEM/12	Dr. Mini Mol Menampambath, Chemistry	Development of Nanomaterials for Neurotransmitter Dopamine Detection in Human Body	11.15 AM-11.30 AM
11	FRG/2019/CHEM/13	Dr. Muniyandi Sankaralinkam, Chemistry	One-Step Selective Hydroxylation of Benzene to Phenol with Hydrogen Peroxide Catalyzed by Nickel(II) Complexes of Pentadentate Ligands	11.30 AM-11.45 AM

12	FRG/2019/CHEM/14	Dr. Raju Dey, Chemistry	Organic and Organometallic Chemistry - Synthesis and Characterization of Transition Metal Pincer Catalysts and their Application in Carbon-Carbon and Carbon-Heteroatom bond Formation Reactions	11.45 AM-12 Noon
	Civil Engg			
13	FRG/2019/CED/15	Dr. Agilan V, CED	Hydroclimatology - Development of a Web-based Expert System for Updating Rainfall Intensity-Duration-Frequency Curves over Kerala	12 Noon-12.15 PM
14	FRG/2019/CED/16	Dr. Anjana Bhasi, CED	Geocel Supported Embankments	12.15 PM-12.30 PM
15	FRG/2019/CED/17	Dr. Arunkumar R, CED	Surface Water Resources Systems - Real Time Reservoir Operation for Flood Control: A System Dynamics Approach	12.30 PM-12.45 PM
16	FRG/2019/CED/18	Dr. Aswathi E.V, CED	Wastewater Treatment - Photocatalytic Removal of Pharmaceutical Compounds under Visible Light by Green Synthesized Zinc Oxide-Graphene Oxide Nanocomposite	12.45 PM- 1 PM
17	FRG/2019/CED/19	Dr. K.V Anand, CED	Coastal Protection – an Alternative to Hard Protective Structure	2 PM-2.15 PM
18	FRG/2019/CED/20	Dr. Renjitha Mary Varghese, CED	Geosynthetic Reinforced Soil Retaining Wall - Analysis on the Effect of Compaction of Geosynthetic Induced Stresses on the Performance of Geosynthetic Reinforced Soil Walls	2.15 PM-2.30 PM
	Computer Science and Engg			
19	FRG/2019/CSED/22	Dr. Arun Raj Kumar P, CSED	Congestion Control and Data Offloading in Heterogeneous Networks	2.30 PM-2.45 PM
20	FRG/2019/CSED/23	Dr. Hiran V Nath, CSED	Critical Infrastructure Threat Detection & Forensic Analysis	2.45 PM-3 PM
21	FRG/2019/CSED/24	Dr. Jay Prakash, CSED	Text Mining - Design and Development of a Social Networks Monitoring System to Prevent and Recognize Cyber Crime through Multiple Aliases Detection	3 PM-3.15 PM
22	FRG/2019/CSED/25	Dr. M Prabhu, CSED	Monitoring Health and Behaviour Analysis of Cows	3.15 PM-3.30 PM
23	FRG/2019/CSED/27	Dr. Vasudenavan A.R, CSED	Network Intrusion Detection System, Penetration Testing	3.30 PM-3.45 PM
	Electrical Engg			
24	FRG/2019/EED/29	Dr. Nikhil Sasidharan, EED	Solar Powered Community Grid - A Resilient DC Community Grid for the Provision of Ancillary Services to Local Grid	3.45 PM- 4 PM
25	FRG/2019/EED/31	Dr. Sanjay M, EED	Neurophysiology of Stroke	4 PM-4.15 PM

14-5-2019 (TUESDAY)				
	Electronics and Communication Engg			
26	FRG/2019/ECED/35	Dr. M Surya Prakash, ECED	VLSI Signal Processing - Design and Asic-chip Tapeout of Distributed Arithmetic based Adaptive Equalizers for Wireless Communications	9 AM-9.15 AM
27	FRG/2019/ECED/37	Dr. Venu Anand, ECED	Thin film Transistors - Development of Zinc Oxy-Nitride based Thin Film Transistors for Photo-Sensing Applications	9.15 AM-9.30 AM
	Mechanical Engg			
28	FRG/2019/MED/39	Dr. Ashesh Saha, MED	Analysis of Instabilities in Jeffcott control	9.30 AM-9.45 AM
29	FRG/2019/MED/41	Dr. Murali K.P, MED	Materials for Electronics Applications - Development of Polymer/Ceramic Composite Substrates for Microwave Circuit/Device Application	9.45 AM-10 AM
30	FRG/2019/MED/42	Dr. Saleel Ismail, MED	Development of a Decentralized Solar Water Distillation System	10 AM-10.15 AM
31	FRG/2019/MED/43	Dr. Simon Peter, MED	Vortex- Induced Vibration (VIV)	10.15 AM-10.30 AM
32	FRG/2019/MED/44	Dr. Srinu Gangolu, MED	Deformation Mechanism in Crystalline Materials - Development of Processing Maps for Mg-Zn-Ca Alloy	10.30 AM-10.45 AM
33	FRG/2019/MED/45	Dr. Sujith Kumar C.S, MED	Film Boiling Heat Transfer Enhancement - Experimental Investigation on the Effect of Electro Assisted Quenching on Mechanical Properties of Ni-625 Superalloy Foams	10.45 AM-11 AM
34	FRG/2019/MED/46	Dr. Vineesh K.P, MED	Wheel Gauge Widening Failure of Wagon Wheels in India Railways	11 AM-11.15 AM
	Physics			
35	FRG/2019/PHY/47	Dr. Aswathi G, PHY	Synthesis of 2D transition metal dichalcogenides (TDM's) and layered double Hydroxides (LDH) through optimized ion intercalation and liquid exfoliation methods	11.15 AM-11.30 AM
36	FRG/2019/PHY/48	Dr. Goutham Kumar Chandra, PHY	Experimental Condensed Matter Physics, Spectroscopy - Study and Characterize the Metal-Molecule Interactions Using Spectroscopic Techniques for Potential Applications	11.30 AM-11.45 AM
37	FRG/2019/PHY/49	Dr. Maneesh Chandran, PHY	Thin Films	11.45 AM-12 Noon
38	FRG/2019/PHY/50	Dr. Ram Ajoy Maurya, PHY	Studies on the Interior Structure and Dynamics of Solar Active Region and their Associations with Explosive Events	12 Noon-12.15 PM
39	FRG/2019/PHY/51	Dr. Saurabh Gupta, PHY	Quantum Field Theory and Supersymmetry	12.15 PM-12.30 PM
40	FRG/2019/PHY/52	Dr. Subramanyan Namboothiri Varanakkottu, PHY	Self-Healing Optofluidic Platform as a Fast Optical and Electrical Switch	12.30 PM-12.45 PM

41	FRG/2019/PHY/53	Dr. Suchand Sangeeth C.S, PHY	Effect of solvent Treatment on the Morphology and change Transport in Conducting Polymers	12.45 PM- 1 PM
	Biotechnology			
42	FRG/2019/SOBT/54	Dr. Baiju G Nair, SoBT	Non- Viral Reprogramming of Somatic Cells to Induce Pluripotency	2 PM-2.15 PM
43	FRG/2019/SOBT/55	Dr. Suresh P.S, SoBT	Non-coding RNA Mediated Regulation in Breast Cancer	2.15 PM-2.30 PM
	Management			
44	FRG/2019/SOMS/56	Dr. Reju George Mathew, SoMS	Comparative Cultural Studies - Film Studies - Comparative Study of the Emergence of the Dalit Popular in Tamil and Malayalam Film from the 1990s	2.30 PM-2.45 PM
45	FRG/2019/SOMS/57	Dr. Sreejith S.S, SoMS	Organizational and Consumer Behavior	2.45 PM-3 PM
46	FRG/2019/SOMS/58	Dr.Althaf S	Patterns of Urban Change and its Political/Policy Determinants	3 PM-3.15 PM
47	FRG/2019/SOMS/59	Dr. Nithya M	Impact of social media on consumer perceptions towards brand	3.15 PM-3.30 PM

20-5-2019 (MONDAY)				
Sl. No.	Project Number	Name & Dept.	Title of the Project Proposal	Time
	Chemical Engg			
48	FRG/2019/CHED/03	Dr. Chandra Shekar Bestha, CHED	Chemical Process Control	9 AM-9.15 AM
49	FRG/2109/CHED/04	Dr. Dhanya Ram V, CHED	Identification and Control of Liner Multi Input Multi Output Systems	9.15 AM-9.30 AM
	Civil Engg			
50	FRG/2019/CED/21	Dr. Robin Davis P	Experimental Study on the Behaviour of Cold Formed Sections under Flexure and Axial Compression	9.30 AM-9.45 AM
	Computer Science and Engg			
51	FRG/2019/CS/26	Dr. T Veni, CSED	Resource Managemen in Fog Computing	9.45 AM-10 AM
	Electrical Engg			
52	FRG/2019/EED/28	Dr. Gopakumar Pathirikkat, EED	Composite Power System Model	10 AM-10.15 AM
53	FRG/2019/EED/30	Dr. S. Kanagalakshmi, EED	Investigations on Advanced Control Systems and Algorithms Setting up Experimental Platform for Verifying Adaptive Control Schemes using Two Tank Hybrid Interacting System (TTHIS)	10.15 AM-10.30 AM
54	FRG/2019/EED/32	Dr.V Karthikeyan, EED	Power Converters to EV drive and Fast-charging Infrastructure	10.30 AM-10.45 AM

	Electronics and Communication Engg			
55	FRG/2019/ECED/33	Dr. Gopi Krishna Saramekala, ECED	Modeling and Simulation of Semiconductor Devices	10.45 AM-11 AM
56	FRG/2019/ECED/34	Dr. Lintu Rajan, ECED	Flexible FET for Tactile Sensing in Medical prosthetics	11 AM-11.15 AM
57	FRG/2019/ECED/36	Dr. Sudeep P.V, ECED	Image Denoising using Deep Neural Networks	11.15 AM-11.30 AM
58	FRG/2019/ECED/38	Dr. Waquar Ahmad, ECED	Automatic Speaker Verification (ASV)	11.30 AM-11.45 AM
	Mechanical Engg			
59	FRG/2019/MED/40	Dr. Deepak Lawrence K, MED	AP242 Model based 3D Engineering for the Automation of Downstream Manufacturing Functions	11.45 AM-12 Noon