Research Scholars' Day

Programme Schedule

9.15 - 9.20	Welcome address
9.20 - 9.30	**Inaugural address** Prof. P. B. Sunil Kumar, Director, IIT Palakkad
9.30 - 11.00	*Technical Session I: Chair: Dr. Krishna Seshagiri (Mechanical Engineering)*
9.30 - 10.30	**Why Research? - Ph.D: Unravelling the Journey** Lecture by the Chief Guest Prof. Sarit Kumar Das, Director, IIT Ropar
10.30 – 10.50	Group photo & Tea break
10.50 - 12.35	*Technical Session II: Chair: Dr. Arvind Ajoy (Electrical Engineering)*
10.50 – 11.20	**Urea Depended Denaturation of Stable β−hairpin in B1 Domain of Protein G.** Dr. A. Padmesh (Chemistry)
11.20 - 11.35	**Opposed-jet Diffusion Flames - A Soot Modeling Perspective.** Navaneethakrishnan (Mechanical Engineering)
11.35 - 11.50	**Pull-in Characteristics in Negative Capacitance - MEMS Hybrid System.** T. R. Raghuram (Electrical Engineering)
11.50 - 12.05	**Estimation of Lateral Force on Stabilizing Piles Considering the Soil Arching Effect.** C. R. Neeraj (Civil Engineering)
12.05 - 12.20	**Membrane Curvature Sensing and Generation by Proteins.** T. V. Sachin Krishnan (Physics)
12.20 - 13.45	All Faculty and Research Scholars are invited for the lunch
13.45 - 15.30	*Technical Session III: Chair: Dr. Debarati Chatterjee (Chemistry)*
13.45 - 14.15	**Reducing Network Incompleteness Through Online Learning** Dr. Sahely Bhadra (Computer Science & Engineering)
14.15 - 14.30	**Regulation and Informalisation of Labour: A Case Study of Beedi Industry in the 20th Century Malabar.** T. K. Suramya (Humanities)
14.30 - 14.45	**Generalized Estimations on Student-t Distributions.** Atin Gayen (Mathematics)
14.45 - 15.00	**Graph Orientations.** Deepu Benson (Computer Science & Engineering)
15.00 - 15.15	**Benzene - Myths and Facts.** Sravan Kumar Perumalla (Chemistry)
15.15 - 16.45	*Session IV* Poster presentations over High Tea
16.45 - 17.00	Concluding remarks, Prof. K. V. G. Kutty, Dean Student Affairs, IIT Palakkad
17.00 – 17.15	Vote of thanks

List of Posters

Sl No.	Poster Title	Research Scholar	Poster Code
1	Effective width method for lipped channel compression members undergoing local and global buckling interaction	Aayillia K Jayasidhan	CE01
2	Application of cavity expansion theory in pressure grouted soil nail system	Alpha Lukose	CE02
3	Interaction of local and distortional buckling modes in partial lip stiffened plates under uniform compression	K C Kalam Aswathy	CE03
4	Three-dimensional modelling of pile caps	Surajit Dey	CE04
5	Experimental investigation on cryogenic machining of Inconel 625 superalloy using modified tool holders	Rakesh P R	ME01
6	Online condition monitoring systems for wire electric discharge machining process	Abhilash P M	ME02
7	IC Engine cylinder wall material effects	Amit Makhija	ME03
8	GaN RF device technology and applications, present and future	Anuja Menokey	EE01
9	Dual Inverter fed open end winding induction motor drive	Greeshma Nadh	EE02
10	EEG - based biometric identification using power spectral features	Jijomon C M	EE03
11	Vector control of a three-phase two-level active front end rectifier using Space Vector Modulation	Durga Nair S	EE04
12	Resistive RAM- An overview	Renjith S	EE05
13	Study on brushless direct current machines	Arghadeep Hazra	EE06
14	Optical pickup unit	Rekha Sekhar	EE07
15	Largest subposet with smaller dimension	Sreejith K P	CS01
16	Clustering using Bayesian Deep Learning	Rekha Raj C T	CS02

17	Stimuli responsive biopolymer membranes	Aathira Murali	PH01
18	Quantum heat engines	Revathy B S	PH02
19	Probing the complex structural variations of bottlebrush polymer via persistence length measurements	Diljith T	PH03
20	Path Integral approach to diffusion processes in active media	Koushik	CY01
21	Spectroscopy of light-matter hybrid states in a micro-sized cavity	Tarun	CY02
22	Towards the mechanistic understanding of disulfide bond isomerisation in proteins	Aparna G Nair	CY03
23	Nanocatalysts for environment: Some promising ways ahead	Jiji M	CY04
24	Oligodithiocarbamate: a novel class of macromolecules with on-demand sequence and structure	Dr. N Pandurangan	CY05
25	Weak solutions to elliptic boundary value problems	Anumol Joseph	MAT01