

Department of Mechanical Engineering

Funded projects since 2010

Sl.No.	Title of Project	Investigators	Funding Agency	Amount (Lakhs)	Status
1	Combustion modeling of semi-cryo pre-burner	Dr. M Jose Prakash	LPSC ISRO	06.38	Ongoing
2	Design And Development Of Capacitance Type Void Fraction Sensor For Two Phase Flow Of Cryogenic Fluids	Dr. Rijo Jacob Thomas Dr. Mathew Skaria Dr. Shafi K. A.	BRNS DAE	25.30	Ongoing
3	Development of Emissivity measurement Setup and Studies of emissivity of Cryocomponents down to 77K	Dr. Shafi K. A. Dr. Mathew Skaria Dr. Rijo Jacob Thomas	BRNS DAE	22.33	Ongoing
4	Investigation on Jet Impingement Heat Transfer and Fluid Flow Characteristics	Prof. Leena.R	CERD	02.00	Ongoing
5	Effective Utilization of waste plastic	Dr.K.E.Reby Roy	KSCSTE	03.00	Ongoing
6	Numerical studies on combustion and film cooling in a semi cryogenic rocket engine	Dr M Jose Prakash Dr.K.E.Reby Roy Prof.T.S.Krishnakumar	LPSC ISRO	09.65	Completed
7	Numerical studies on regenerative cooling of a semi cryogenic rocket engine	Dr M Jose Prakash Dr.K.E.Reby Roy	LPSC ISRO	09.48	Completed

8	Modernisation computing facilities for post graduate students and research scholars	Dr M. Jose Prakash	AICTE	16.00	Completed
9	Development of Energy efficient thermal systems using nanofluids	Dr M. Jose Prakash Prof.T.S.Krishnakumar	AICTE	14.50	Completed
10	Stent Design Optimization	Dr.P.N.Dileep	AICTE	10.00	Completed

8	Experimental study on food waste composting System	Prof. Jessin T A Prof. Thanooja	TEQIP-II	0.39	Ongoing
9	Investigation of factors in fluency Natural gas hydrate formation and dissociation	Prof. Mohammed Iqbal P	TEQIP-II	0.75	Ongoing
10	Investigation on materials for 3D printing	Dr. C A Shajahan Dr.Rijo Jacob Thomas	TEQIP-II	0.642	Ongoing
11	Study on the effect of cryo treatment on advanced tool materials	Dr. S Jose Dr. Rijo Jacob Thomas	TEQIP-II	1.69	Ongoing
12	Experimental set up for measurement of multilayer insulation effectiveness	Dr. Mathew Skaria Dr. Rijo Jacob Thomas	TEQIP-II	1.76	Ongoing
13	Investigatory study of Vacuum qualified materials	Dr. Shafi K A Dr. Rijo Jacob Thomas	TEQIP-II	1.88	Ongoing
14	Development and performance assessment of liquid desiccant air conditioner	Dr. Thilakan H Dr. Rijo Jacob Thomas	TEQIP-II	1.47	Ongoing
15	Investigations on the effect of internal coatings on the heat transfer and fluid quality during chill-down of cryogenic fluids	Prof. Ashfak A Dr. K E Reby Roy Prof. Jesna Muhammed	TEQIP-II	2.00	Ongoing
16	Experimental and computational studies on helium mass requirement for cryogenic propellant tanks	Prof.Jesna Mohammed	TEQIP-II	0.30	Completed

17	Synthesis of nanoparticles by chemical routes, their characterization and analysis of the effect of nanoparticles in the thermo physical properties of conventional coolants	Prof.Krishnakumar T S	TEQIP-II	1.35	Completed
18	Computational and experimental studies on chilldown of helically coiled liquid nitrogen pipes with continuous and pulse flows	Dr.K E Reby Roy	TEQIP-II	1.20	Completed
19	Thermal and mechanical characteristics of jet impingement quenching for carbon and alloy steel	Prof.Leena R	TEQIP-II	0.52	Completed
20	Numerical and Experimental Investigations of heat transfer characteristics of helical coil heat exchanger	Prof.Sheeba A	TEQIP-II	0.50	Completed