

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	6.38	Ongoing
2	Development of Emissivity measurement Setup and Studies of emissivity of Cryocomponents down to 77K	Dr. Shafi K A Prof. Mathew Skaria Dr. Rijo Jacob Thomas	BRNS DAE	22.33	Ongoing
3	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	9.65	Completed
4	Numerical studies on regenerative cooling of a semi cryogenic rocket engine	Dr M Jose Prakash Dr.K.E.Reby Roy	LPSC ISRO	9.48	Completed
5	Modernisation computing facilities for post graduate students and research scholars	Dr M Jose Prakash	AICTE	16	Completed
6	Development of Energy efficient thermal systems using nanofluids	Dr M Jose Prakash Prof.T.S.Krishnakumar	AICTE	14.5	Completed
7	Stent Design Optimization	Dr.P.N.Dileep	AICTE	10	Completed

Seed money projects since 2010

Sl.No.	Title of Project	Investigators	Funding Agency	Amount (lakhs)	Status
1	Investigations on heat transfer and fluid flow characteristics of jet impingement cooling for high power electronics.	Prof.Leena.R	CERD	2	Ongoing
2	A novel image watermarking technique based on spatiotemporal chaos and cross chaotic maps	Dr. Dileep P N Prof. Sharos H	TEQIP-II	1.32	Ongoing
3	Experimental investigation on mechanical behavior of femur bone under various load	Prof. Resmi S L Prof. Jessin T A	TEQIP-II	1.74	Ongoing
4	Experimental Investigation on the Mechanical Behavior of Artery Stents	Prof. Hashim V Prof. Rakesh Pillai	TEQIP-II	1.98	Ongoing
5	Experimental Investigation of cashew nut oil as bio fuel in diesel engine	Dr. Aju Kumar V N Prof. Krishnakumar T S	TEQIP-II	1.56	Ongoing
6	Investigation of fracture properties of composite materials	Dr. Nizar Hussain Dr. Jose S	TEQIP-II	1.68	Ongoing
7	Effect of addition of Titanium nano particles on the Mechanical Properties of Centrifugally cast Aluminum alloy	Prof. Ahammed Vazim K A Prof. Syed Muhammed Fahd	TEQIP-II	0.996	Ongoing

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	Prof. 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 assesment 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