

R & D PROJECTS

Title of the Minor Project	Convenor with Designation	Sponsoring Agency	Amount In Rs.	Status
Multi-Rotor Tractor Rotavator and Roto-Tiller - S.K. Machines	Dr.M.Selvakumar,Associate Professor	Innovation Voucher Programme- Entrepreneurship Development and Innovation Institute- Chennai.	Rs 2 Lakhs	Finished
Development of coconut dehusker and fibre separation unit - J.K. Coirs Pvt Ltd	Dr.M.Selvakumar,Associate Professor	Innovation Voucher Programme- Entrepreneurship Development and Innovation Institute- Chennai.	Rs 2 Lakhs	Finished
Development of Jeevamrutham (Natural manure) preparation machine” Industry Partner: Mayon. Coimbatore	Dr.M.Selvakumar,Associate Professor	Innovation Voucher Programme- Entrepreneurship Development and Innovation Institute- Chennai.	Rs 2 Lakhs	Finished
Smart stair climbing wheelchair	Mr. S. Arulkumar,Assistant Professor	Tamil Nadu State Council for Science and Technology	Rs 7500	Finished
Tribological investigations of Ti-TB composites processed through microwave sintering for automobile disc brake applications	Dr.M.Selvakumar,Associate Professor	UGC	Rs 3,85,000/-	Finished
In-House Research and Development Project on Design and Development of a Pilot Plant for the Production of Biochar and Bio-fuels	Mr.C.Radhakrishnan	MCET	Rs 4,00,000	Finished

Synthesis of Catalytic Cracked Vegetable Oil For Diesel Engine Application	Mr.M.Thirunavukkarasu	MCET	Rs. 73,000	Finished
Tribological investigations of Ti-TB composites processed through microwave sintering for automobile disc brake applications	Dr.M.Selvakumar	UGC	Rs 3,55,000	Finished
Feasibility study on of natural /glass fibre reinforced nano composites materials for naval applications	Dr.D.Shanmugam	Navel Research Board	Rs 5,87,000	Completed
Solar powered hover board	Dr.M.Selvakumar Mr.K.Saileash Mr.R.Dinesh Mr.A.Jeevabharathi Mr.K.Mohan Kanth	Tamil Nadu State Council for Science and Technology	Rs.7,500	Completed

CONSULTANCIES CARRIED OUT

S.No	Names of the teacher-consultants	R&D project title	Sponser
1	Dr. Calvin Sophistus King,Dr.M.Selvakumar	Learning Assessment Design	IQL TVSM
2	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for training course module development Basic Programme	Larsen & Toubro limited - CBE Central Management
3	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for training course module development- Advance Technical Programme	Larsen & Toubro limited - CBE Central Management
4	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for Behavioral Assessment test conducted.	Larsen & Toubro limited - CBE Central Management
5	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for Technical Assessment.	Larsen & Toubro limited - CBE Central Management
6	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for Basic Module Delivery	Larsen & Toubro limited - CBE Central Management
7	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for Advance Module Delivery.	Larsen & Toubro limited - CBE Central Management
8	Dr. Calvin Sophistus King,Dr.M.Selvakumar,Dr.S.K.Ashok	Being the charges for Behavioral assessment	Larsen & Toubro limited - CBE Central Management
9	Dr. Calvin Sophistus King, Dr.M.Selvakumar, Dr.S.K.Ashok Mr.R.Aswathaman	Being the charges for Part Modelling and Drafting for defence components,course module developments and technical ,Behavioural training to the L&T Employees.	Larsen & Toubro Limited
10	Dr. Calvin Sophistus King, Dr.M.Selvakumar, Dr.S.K.Ashok	Being the consultancy charges for "Course Module development,Technical and Behavioural Training".	L&T Valves Ltd

PROJECT PROPOSALS SUBMITTED

R & D Project Title	Sponsoring Organization	Project proposal Amount
Multi-objective evolutionary optimization for Engineering Applications and product innovation through TRIZ	AICTE	Rs.4,90,000
Semi-Autonomous Aerial fruit Reaping Vehicle (SAARAL)	IEDC	RS.1,94,850
Smart Farming Robot	IEDC	Rs.1,99,500
Tribological investigation on Titanium-Titanium Boride composites for bio implants (hip and knee joint) applications	Science and Engineering Research Board(SERB)-New Delhi	Rs.24,22,000
Enhancement of dielectric constant in polymer-ceramic Nano-composites using modified viologens compounds for flexible energy storage applications	DST	Rs.5,93,820
Investigation on the compatibility of Titanium-Titanium Boride composites for hip and knee joint application	Tamil Nadu State Council for Science and Technology	Rs. 4,8400
Design and fabrication of automated floor cleaning machine	Tamil Nadu State Council for Science and Technology	-
Solar powered hoverboard	Tamil Nadu State Council for Science and Technology	Rs.7,500
Preparation and property evaluation of B4C-TiB2 and B4-ZrC composites for control rod applications in nuclear reactor	UGC-DAE CSR	Rs. 1,40,8000
Development & Field Testing Of Diesel Vegetable Oil Fuel Blends In Commercial Transport Vehicle	UGC	Rs 350000/-
Comprehensive investigations on titanium-titanium boride composites processed through powder metallurgy techniques	UGC	Rs 3,45,000/-
Bio diesel testing in commercial Transport vehicle	DST	Rs.20,00,000/-
Workshop on Electronics application in automobiles	DRDO	Rs.100000/-
Admitting Hydrogen in diesel engine intake manifold for reduced fuel consumption	MCET	Rs.1,63,700/-
Synthesis of cracked vegetable oil using catalyst for diesel engine application	MCET	Rs. 73,000