



# MIND'SPARK

## News Letter

### Department of Mechanical Engineering

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### Sir Ratan Naval Tata (born 28 Dec 1937)

He is an Indian industrialist & former chairman of Tata Sons. He was also the chairman of the Tata Group from 1990 to 2012, serving also as interim chairman from Oct 2016 through Feb 2017. He continues to head its charitable trusts. In 2008, he received the Padma Vibhushan, the second highest civilian honour in India, after receiving the Padma Bhushan, the third highest civilian honour in 2000.

He is the son of Naval Tata, who was adopted by Ratanji Tata, son of Jamsetji Tata, the founder of the Tata Group. He graduated from the Cornell University College of Architecture, & the Harvard Business School through a management course in 1975. He joined Tata in 1961, working on the shop floor of Tata Steel. He later succeeded J. R. D. Tata as chairman of Tata Sons. Under his tenure the Tata Group acquired Tetley, Jaguar Land Rover, & Corus, to turn Tata into a global business. Tata is also one of the largest philanthropists in the world, having

donated around 60–65% of his income to charity.

His schooling happened at the Campion School, Mumbai, the Cathedral & John Connon School in Mumbai, the Bishop Cotton School in Shimla, & the Riverdale Country School in New York City till 1955. He then enrolled in Cornell University, from which he graduated in 1959. In 1975, he attended the seven-week Advanced Management Program of Harvard Business School.

In the 1970s, Tata was given a managerial position in the Tata group. He achieved initial success by turning the subsidiary National Radio & Electronics (NELCO) around. Initially, Tata faced stiff resistance from the heads of various subsidiaries. In response, Tata implemented a number of policies designed to consolidate power, including the implementation of a retirement age, having subsidiaries report directly to the group office, & requiring subsidiaries to contribute their profit to building the Tata group brand. Tata prioritised innovation & delegated many responsibilities to younger talent. Under his leadership, overlapping operations between subsidiaries were streamlined into company-wide operations, with the group taking on globalisation.

During the 21 years Tata led the Tata Group, revenues grew over 40 times, & profit over 50 times. His contributions repositioned Tata from a largely India-centric group into a global business, with over 65% of revenues coming from operations & sales internationally. His philanthropic activities & an excellent personality keeps winning the accolades of people around the world time & again.

## JOURNAL PUBLICATIONS

Dr. M Udaya Kumar got his paper titled "Thermal Performance of Engine Cylinder with Dissimilar Materials", published in the journal, International Journal of Advanced Research in Science,

Commerce, Management and Technology in January month of 2021. The paper with ISSN (Online): 2582-9327 can be found at <http://www.lambert.co.in/Paper123.pdf>

Dr.P.Prabhu Raj from got his paper titled "Experimental investigation on corrosion behaviour of Friction stir welded AA-T651 aluminium alloy under 3.5% WT NACL environment" published in the journal "Materials today". The paper carrying ISSN number 2214-7853 can be found at <https://www.sciencedirect.com/science/article/pii/S2214785320362945#1>

## PATENT PUBLICATION

For the invention titled "DESIGN AND DEVELOPMENT OF MISHAP DETECTION AND ASTUTE ACTION SMART SYSTEM USING IOT", Dr. Prabhuraj P, Assoc. Professor from the department of mechanical engineering published a patent with application number 202141005564A on 12th February 2021.

**ABSTRACT:** IoT or Internet of Things is a new concept that has evolved from the convergence of wireless technologies. Wireless communication is the transfer of information or signal between two or more points that are not connected by an electrical conductor. In IoT devices equipped with Wi-Fi allow machine-to-machine communication. Using this form of industrial machines to wearable or wireless devices, using built-in sensors to gather data and take action on that data across a network. These systems go beyond simple reporting of each vehicle's location, offering fleet managers a wealth of information about their vehicles and their drivers. The main objective of our project is immediate caution of road accidents to safeguard human life. By utilising this project the road accidents will be located easily by using mobile phones through GPS. By detecting road accidents it will alert nearby police stations and hospitals through cell sites.

## FDP'S attended

S. No.	Name of the FDP	Organised By	Date of FDP	No. of Days
1	Advances in Computational Fluid Dynamics and Its Applications	Geethanjali College of Engineering and Technology, TS	25th January, 2021 to 6th February, 2021.	2 weeks

## Department of Mechanical Engineering

### VISION

To be a reputed centre of excellence in the field of Mechanical Engineering by synergizing innovative technologies & research for the progress of society.

### MISSION

- M1:** To impart quality education by means of state-of-the-art infrastructure.
- M2:** To be involved in training & activities on leadership qualities & social responsibilities.
- M3:** To inculcate the habit of lifelong learning, practise professional ethics & serve the society.
- M4:** To establish industry- institute interaction for stakeholder development