



# MIND'SPARK

## News Letter

### Department of Mechanical Engineering

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### InFocus: Scientist: **Dr. A. P. J. Abdul Kalam**

Dr. Avul Pakir Jainulabdeen Abdul Kalam was born on 15 October 1931 and lived till 27 July 2015. He was an Indian aerospace scientist and politician who served as the 11th President of India from 2002 to 2007. He was born and raised in Rameswaram, Tamil Nadu and studied physics and aerospace engineering. He spent the next four decades as a scientist and science administrator, mainly at the Defence Research and Development Organisation (DRDO) and Indian Space Research Organisation (ISRO) and was intimately involved in India's civilian space programme and military missile development efforts. He thus came to be known as the Missile Man of India for his work on the development of ballistic missile and launch vehicle technology. He also played a pivotal organisational, technical, and political role in India's Pokhran-II nuclear tests in 1998, the first since the original nuclear test by India in 1974. Kalam served as the Chief Project Coordinator, along with Rajagopala Chidambaram, during the testing phase. Media coverage of Kalam during this period made him the country's best known nuclear scientist.

Kalam was elected as the 11th President of India in 2002 with the support of both the ruling Bharatiya Janata Party and the then-opposition Indian National Congress. Widely referred to as

the "People's President", he returned to his civilian life of education, writing and public service after a single term. He was a recipient of several prestigious awards, including the Bharat Ratna, India's highest civilian honour.

While delivering a lecture at the Indian Institute of Management Shillong, Kalam collapsed and died from an apparent cardiac arrest on 27 July 2015, aged 83. Thousands, including national-level dignitaries, attended the funeral ceremony held in his hometown of Rameswaram, where he was buried with full state honours.



## INDUSTRIAL VISIT

The Mechanical Engineering Department arranged an industrial visit to Research Centre Imarat on 15th of February 2020 for the students of IV year. Four faculty members including Dr. P. Shailesh, Mr. Ali Ahmed, Mrs. Sowjanya and Mr. YMM Reddy accompanied the students on the visit.

At RCI the visitors were received by Mr. Krishnao Rao, the facilitator for the visit. The students were addressed by respected scientist Mr. Mallikarjun Naik, Mrs. Runa Debnath and Mr. Umakanth who delivered lectures on Vibration mechanics, Inertial Navigation Systems and Flight Control for Missiles.

A brief break was taken for refreshments after the lectures and then a tour was taken around where students were shown different parts and components of missile systems by Mr. Subramanyam. The visit was concluded by taking feedback from the students.

## FDP'S attended

Mr. Y M M Reddy participated in multiple Faculty Development Programs (FDPs) on different topics related to Mechanical Engineering.

In June 2020, he attended the FDP on "Research Trends in Mechanical Engineering," organised by Gudlavalleru Engineering College in Andhra Pradesh. The program lasted for one week from 15th to 20th June 2020. He also participated in the FDP on "IPR and Fundamentals of Patent filing & Prosecution," which was organised by BV Raju Institute of Technology in Narsapur, from 8th to 10th June 2020. This program lasted for three days.

In June 2021, he attended two FDPs. The first was on "Role Of Mathematics In Latest Engineering Trends," which was held at Lords Institute of Engineering & Technology from 4th to 10th June 2021. The second was on "Intellectual Property Rights," organised by Gates Institute of Technology in Andhra Pradesh. This program was conducted from 8th to 12th June 2021 and lasted for five days.

Lastly, Mr. Y M M Reddy also participated in another FDP on "Recent Trends in Mechanical Engineering," organised by Gudlavalleru Engineering College in June 2020, which lasted for one week from 15th to 20th June 2020.

S. No.	Faculty	Name of the FDP	Organised By	Date of FDP	No. of Days
1.	Mr. Y M M Reddy	Research Trends in Mechanical Engineering	Gudlavalleru Engineering College, Ap.	15th to 20th June 2020	1 week
2.	Mr. Y M M Reddy	Role Of Mathematics In Latest Engineering Trends	Lords Institute of Engineering & Technology	4th to 10th June 2021	1 week
3.	Mr. Y M M Reddy	IPR and Fundamentals of Patent filing & Prosecution	BV Raju Institute of Technology, Narsapur	8th to 10th June 2020	3 Days
4.	Mr. Y M M Reddy	Intellectual Property Rights	Gates Institute of Technology, AP	8th to 12th June 2021	5 Days
5.	Mr. Y M M Reddy	Recent Trends in Mechanical Engineering	Gudlavalleru Engineering College	15th to 20th June 2020	1 week

## WEBINARS ATTENDED

Mr. Srikanth Rangdal conducted a webinar on "How to use CAD to enhance teaching learning experience in KOM" at MCET on 28/05/2020 that was attended by faculty members from various colleges. The webinar focused on how Computer-Aided Design (CAD) can be utilised to improve the teaching-learning experience in engineering courses. It highlighted the importance of incorporating CAD tools in the curriculum and how it can benefit both students and faculty members. The session also covered various CAD software tools and their applications in different engineering domains. Attendees were able to gain valuable insights on how to use CAD tools to create interactive and engaging learning materials. Overall, it was an informative and engaging session for all participants.

Mr. Y Madhu M. Reddy, a faculty member, attended several events in May 2020. On May 16th, he attended a webinar on "Smartphone Security Issues in The Digital World" organised by MCET. Later, on May 30th, he attended another webinar on "The Characteristics Of An Excellent Teacher In The Present Context," organised by Jai Shriram Engineering College.

In addition to webinars, Mr. Reddy also attended a boot camp on "Fundamentals of Hybrid Electric Vehicle," organised by SKILL LYNC on May 12th. He also participated in a webinar on "NDLI USER AWARENESS," organised by MHRD on May 26th.

Dr. P. Ravi Chander attended a 3-day webinar on "Engg. Graphics - Graphical solutions to Engg. Problems" organised by MRRITS from 27 to 29 May 2020.

Abdul Fazal attended a webinar on "How to Use CAD to Enhance Teaching - Learning Experience" organised by MCET on 28 May 2020.

Srikanth Rangdal attended a 1-day webinar on "Program on Outcome Based Education (OBE)" organised by MLR Institute of Technology on 18 May 2020.

Mr. Y Madhu M. Reddy attended three webinars in June 2020. On June 6th, he attended a webinar on "Now & Future: Climate Change & Food Systems." This one-day event discussed the impact of climate change on food systems and how to address these issues.

On June 12th, Mr. Reddy attended a webinar on "Metal Additive Manufacturing." This one-day event covered the basics of metal 3D printing, including its applications and advantages in manufacturing.

Lastly, on June 19th, Mr. Reddy attended a webinar on "Enhancing Teaching Learning Experience Using CAD Tools In Machine Drawing." This one-day event focused on how to use computer-aided design (CAD) tools to improve the teaching and learning experience in machine drawing.

S. No.	Name of the Faculty	Type of Event	Title of Event	Name of Organizer	Date/s	Duration
1.						
2.	Mr. Y Madhu M. Reddy	Webinar	Smartphone Security Issues in The Digital World"	MCET	16/05/2020	1 Day
3.	Mr. Y Madhu M. Reddy	Attended Webinar	The Characteristics Of An Excellent Teacher In The Present Context	Jai Shriram Engg. College	30/05/2020	1 Day
4.	Mr. Y Madhu M. Reddy	Attended Boot Camp	Fundamentals of Hybrid Electric Vehicle	SKILL LYNC	12/05/2020	1 Day
5.	Mr. Y Madhu M. Reddy	Attended Webinar	NDLI USER AWARENESS	MHRD	26/05/2020	1 Day
6.	Dr. P. Ravi Chander	Attended Webinar	Engg. Graphics - Graphical solutions to Engg. Problems	MRRITS	27 to 29/05/2020	3 Day
7.	Abdul Fazal	Attended Webinar	Webinar on "How to Use CAD to enhance Teaching - Learning Experience"	MCET	28/05/2020	1 Day
8.	Srikanth Rangdal	Attended Webinar	Program on Outcome Based Education (OBE)	MLR Institute of Technology	18/05/2020	1 Day
9.	Mr. Y Madhu M. Reddy	Attended Webinar	Now & Future: Climate Change & Food Systems		6th June 2020	1 Day
10.	Mr. Y Madhu M. Reddy	Attended Webinar	Metal Additive Manufacturing		12th June 2020	1 Day
11.	Mr. Y Madhu M. Reddy	Attended Webinar	Enhancing Teaching Learning Experience Using CAD Tools		19th June 2020	1 Day

			In Machine Drawing			
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### Department of Mechanical Engineering

#### VISION

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

#### MISSION

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