



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



**DEPARTMENT OF MECHANICAL ENGINEERING
&
INDIAN INSTITUTION OF PRODUCTION ENGINEERS (IIPrE) student's chapter**

**Report
One Day Seminar on
“DIGITALIZATION OF MECHANICAL DESIGN AND ANALYSIS”**

20th Feb 2023

No. of. Participants- 40

Resource person: Dr. Raj subbiah, Vice President, Hydro Modelling Inc., Orlando, Canada.

Department of Mechanical Engineering and **Indian Institution of Production Engineers (IIPrE)** together conducted a Seminar on the topic **“DIGITALIZATION OF MECHANICAL DESIGN AND ANALYSIS”** on 20th Feb 2023. Welcome address was given by Dr. M.Prabhakar, Professor & HOD. Chief Guest introduction was given by Mr. Ashish Kumar, IV / MECHANICAL ENGINEERING Year Mechanical. Vote of Thanks was given Mr.G.Antony Casmir Jayaseelan Asst.Prof (Gr-II)/Mech.

The topics covered in Seminar:

- Introduction about the basics of the digitalization approaches. It highlights the difference between digitization and digitalization.
- The use of the Internet and the growing Internet of Things (IoT) and use of artificial intelligence, robotics and data analytics.
- The impact of machine learning and artificial neural networks in the assembly, commissioning and testing of different machines.
- Various benefits of digital transformation.
- Various advantages of digitalization in industry.
- Various Key points that influence the Mechanical Design.

Seminar Outcome

- Automated generation of technical documents.
- Accelerated, data-driven decisions.
- The goal of digitization is to utilize digital technology to make information more easily accessible, storable, maintainable, and shareable.
- Helping businesses to reduce operating costs, speed up production, and improve cohesion between different stages of the manufacturing process.

Students Suggestion

- To arrange Industrial Visits. To know about Digitalization in Mechanical Design and Analysis in organisation.

