



**AARUPADAI VEEDU  
INSTITUTE OF TECHNOLOGY**  
OMR, PAIYANOR, CHENNAI - 603104



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# AVIT

## DEPARTMENT OF MECHANICAL ENGINEERING

### INAUGURATION OF INDIAN INSTITUTION OF PRODUCTION ENGINEERS (IIPrE)

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### Report – Seminar on “MANUFACTURING 4.0”

23<sup>rd</sup> January 2020

No. of. Participants- 43

**Resource persons:** 1.Prof. D.R.Kiran, Advisor, IIPrE, TN Chapter  
2.Dr.D.Thirunakkarasu, Chairman, IIPrE TN Chapter  
3. Dr.K.V.Krishna Sastry, Vice - Chairman, Editor, IIPrE Newsletter.  
4. Mr.Ramani Balakrishnan, Secretary, IIPrE TN Chapter

Department of Mechanical Engineering Inaugurated student chapter of Indian Institution of Production Engineers (IIPrE) and conducted a seminar on the topic “**MANUFACTURING 4.0**” on 23<sup>rd</sup> January 2020 by Er. Ramani Balakrishnan, General Manager in GM Pens India Ltd, Chennai.

### The topics covered in seminar

- Introduction about Industrial Revolution.
- Recent technologies used in manufacturing 4.0 – Artificial Intelligence, Robotics, Big Data, Machine Learning ,cloud computing, Quantum computing , Nano Technology , Synthetic Biology, Additive manufacturing, Autonomous Vehicle, wireless network, IOT.
- Briefly explained the topics Additive manufacturing, IOT and Autonomous Vehicle.
- Functions of IOT technologies.
- Explanation about Additive manufacturing.
- Automated guided vehicle (AGV).
- Applications of Intelligence manufacturing.
- Uses of Artificial Intelligence.

### Seminar Outcome

- Students understood the importance of Artificial Intelligence.
- Known about upcoming trends in industries.
- Learned about industrial revolution in past years.

## Students Suggestion

- To conduct practical session of models, designs, drawings, books, articles in connection with the development and improvement of Production.
- To arrange regular guest lecture and industrial visit.

The seminar was coordinated by Mr.G.Antony Casmir, Assistant Professor (Gr-II), Prof .N.lakshminarayanan Assoc. Prof/mech, (Executive member,IIPrE) and Prof. L.Prabhu HOD Mechanical department.

