

R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY

R S M Nagar, Puduvoyal – 601 206









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Vice Prsident – TECHSYS IOT LABS

Date and Time : 14.05.2020 @ 11.00am

TOPIC: MOVING FORWARD WITH IoT

TOPIC DISCUSSED:

Initially started with presentation on recent technologies

AICTE recommended coming up curriculum topics:



- 1. Artificial Intelligence
- 2. Internet of Things (IoT)
- 3. Blockchain
- 4. Robotics
- 5. Quantum Computing
- 6. Data Sciences
- 7. Cyber Security
- 8.3D Printing and Design
- 9. Virtual Reality (VR)

Then various existing problems in the industry faced were discussed.

- 1. Lack of trained resource, as the technology is getting updated very fast
- 2. Maintenance overhead cost
- 3. Complex in lifestyle
- 4. Global competitive environment
- 5. Frequent catastrophic effects
- 6. Availability of the people, in right time
- 7. Industry/domain specific technology
- 8. Big gap between R&D activities and implementation in traditional industry
- 9. Gap between curriculum subjects and industry expectations
- 10. Focus on industry requirements, during curriculum and bringing awareness to IP
- 11. Connectivity Issues, as each domain follows their own specific ones
- 12. Compatible issues across various devices
- 13. Training issues as the generation crosses over to next one
- 14. Use of older programming languages like C, Ada, Ladder, etc.,
- 15. Following water-fall kind of methodology



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Next, discussed about existing trends in IoT and factors accelerating IoT.

- 1. Electronic trends Sensors, wireless, micro controllers
- 2. Cloud computing, Big data technologies
- 3. Mobile applications, smart phone penetration
- 4. Urgency for smart resources & energy management
- 5. Open source business model for hardware
- 6. Open source business model for software
- 7. Need for better productivity Efficiency
- 8. Government friendly policies
- 9. Cost advantage
- 10. Consumer is expecting more balance between personal life and business life
- 11. Support to Big data, predictive analysis, AI and ML
- 12. Good support in terms of using high level scripting languages like Python, R
- 13. Faster development life cycle
- 14. Agile methodology
- 15. Simple protocols like MQTT, CoAP, HTTP
- 16. Soon getting 5G technology
- Discussed on Sensor prices, and it have come down from \$1.30 in 2004 to \$0.38 in 2020E. And discussed various sensors, Wireless technologies, IoT application areas and various microcontrollers.

New Innovations (2020):

Chennai IIT has developed Arduino based mind mapping unit



Arduino based ventilator system from Italy Research firm



Raspberry Pi based ventilator system from UK



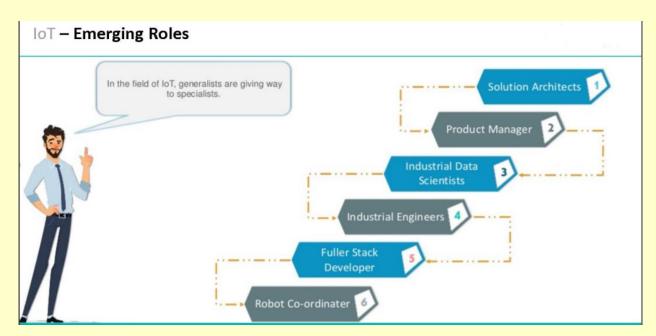
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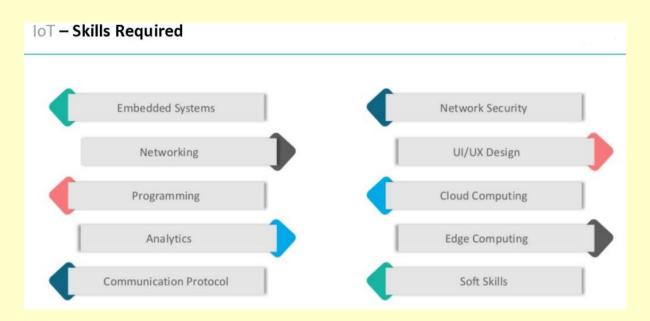
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- Showed one exciting video on IoT implementation.
- Live Demo have shown: Capturing the temperature and humidity in a real time and uploading the data to a cloud-based tool.
- Finally Question & Answer sessions
- Faculties were asked real time questions and the speaker had given solution for those questions.
- Webinar ended with vote of Thanks.