



VISHWKARMA GOVERNMENT ENGINEERING COLLEGE, CHANDKHEDA

Brief Report on Webinar

Name of Department/Organizer	:	EC Engineering Department
Date & Time	:	29/5/2020 11.30 to 12.30
Venue	:	Online Google meet Platform
No of Participants	:	40

Objective of the Webinar:

- ❖ To know about Wireless sensor network, its applications and its current research trends in it.

• Brief about event and outcome of event

- ❖ Dr Jayesh Pabari has started session with video showing how sensors are placed on Mars to collect the data. He gave information about the various wireless standards available like Bluetooth, 802.14 and Zigbee etc. He discussed road map of wireless technology and where sensor network stands in technology evolution wireless.
- ❖ He also compared the scenario of placing the wireless sensor network on the earth and other planet in terms of design complexity, power consumption and other factors. He also compared the wireless network model with OSI model. He differentiated the wired sensor network and wireless sensor network. He stated that more research in the battery design is required to use increase of the wireless sensor network.
- ❖ He discussed about Water Ice sensor. He also explained working and usefulness of surface charge sensor and Water ice sensor. He discussed various applications of wireless sensor network like volcano site, farming, remote places etc.
- ❖ He described on moon no communication model of earth is useful. New Lunar wireless model needed. He discussed lunar wireless model designed by him.
- ❖ He encouraged the students and faculty to do various research projects in wireless sensor network. He also answered the question raised by participants about regarding availability of software tool in open domain and hardware kits to perform experiments related to wireless sensor network. The session of ended with vote of thanks.
- ❖ Students have also raised many questions and Dr Jayesh Pabari has provided solutions to their questions and asked them to keep their eyes open to see day to day life problems around them and try to find the solutions using latest technology.

- ❖ Participants gained the knowledge and insight in recent trends going in wireless sensor network development

- **Event Photographs**

Wireless Sensor Network - Research Possibilities

Dr. Jayesh P. Pabari

Physical Research Laboratory, Ahmedabad

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Webpage: <http://www.prl.res.in/~jayesh>

Invited Talk Through VC, VGEC (GTU), Chandkheda, Ahmedabad

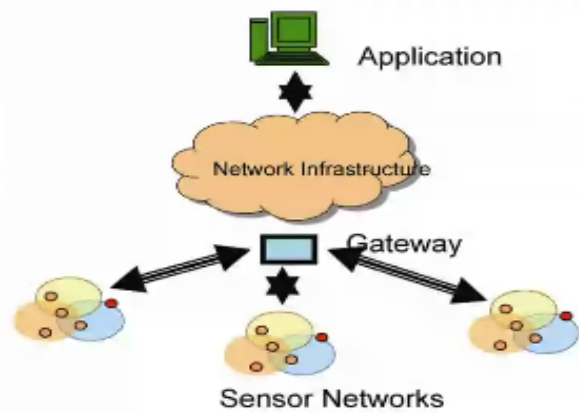
29 May 2020

Outline

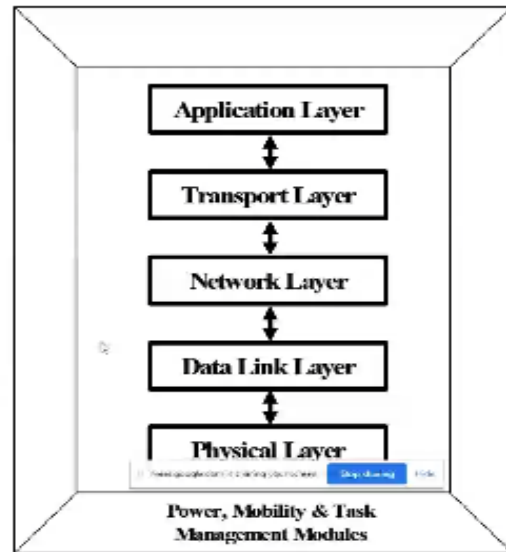


- ❖ Mars Sense: Mar Wireless Sensor Network
- ❖ Where does WSN Stand in a Technological Evolution?
- ❖ Wired versus Wireless Sensor Network
- ❖ Typical Problems, Channel Access and Energy Harvesting
- ❖ Applications of Wireless Sensor Network

Wireless Sensor Network



1041. 1410. Sensor networks and their applications. (powerpoint presentation) Technical papers Technical papers security requirements in wireless sensor networks



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Ghanshyam Shah



Group Members



Harshil Patel

