

R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY

RSM NAGAR, PUDUVOYAL 601206



CENTRE OF EXCELLENCE IN TELECOM

Webinar on TECHNOLOGY TRENDS POST COVID-19

SPEAKER

Mr. SATHYA

SENIOR MANAGER,
COGNIZANT

COORDINATORS

Ms.J.Jasmine Hapzipah

AP – ECE - RMKEC

Ms.M.Manju

AP – ECE - RMKCET

Mr.D.Jaiganesh

AP – ECE - RMDEC



06.05.2020

11.00 AM – 12.00 NOON



EVENT POSTER



R.M.K GROUP OF INSTITUTIONS



CENTRE OF EXCELLENCE - TELECOM

WEBINAR ON

TECHNOLOGY TRENDS POST COVID-19
(5G TECHNOLOGY AND CLOUD BASED APPLICATIONS)

WEBINAR SESSION
DATE AND TIME

06th May 2020
WEDNESDAY

11.00 a.m. - 12.00 noon

SESSION EXPERT



Mr.SATHYA
SENIOR MANAGER- COGNIZANT

TARGET AUDIENCE

DEPARTMENT OF ECE

TELECOM COE
STUDENTS ONLY

SESSION COORDINATORS

Ms.J.JASMINE HEPZIPAH
ASSISTANT PROFESSOR
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R.M.K ENGINEERING COLLEGE

Mr.B.JAIGANESH
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Ms.M.MANJU
ASSISTANT PROFESSOR
DEPT OF ECE
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TECHNOLOGY

SUMMARY OF THE REPORT

The webinar was attended by the III Year ECE (Telecom CoE) students, totally 70 Participants. The main objective of the webinar is to guide the students to understand the Technology trends post in the 5G Technology and cloud based applications. The webinar was structured in an introduction of Covid-19 crisis - Impact Analysis (R/A/G) and followed by the brief explanation of 5G technology. Highlighted How the 5G timelines travelled from 2015 -2020 and MIMO Impact in the 5G was also discussed.

Key Highlights

- Covid-19 crisis – Impact Analysis (R/A/G)
- 5G?
- 5G Timeline
- MIMO & Use cases
- Hot Technologies

How the Covid-19 crisis – Impact Analysis (R/A/G)?

Covid-19 crisis – Impact Analysis (R/A/G)

Red

1. Aerospace
2. Automotive
3. Travel & Tourism
4. Retail stores
5. Sports & Entertainment***
(***Traditional Media)
6. Advertisement
7. Real estate

Amber

1. Consumer software
2. Enterprise Software
3. Healthcare
4. Medical Devices
5. Pharmaceuticals
6. BFSI

Green

1. Online Medium (eCom, Education, Shopping, Surveillance, & Food)
2. OTT (Amazon Prime video, Netflix, Hotstar)
3. Cloud (DaaS, Transformation, Distributed Cloud) Azure/AWS/Google cloud
4. WFH/Collaborative Digital media (Gaming, eSports, Webex/Teams/ Skype)
5. Telecom (Triple/Quad Play)
6. 5G & Emerging Technologies***

What is 5G ? Why 5G?

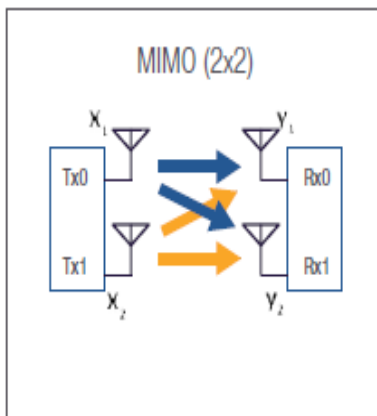
Broadly speaking, 5G is used across three main types of connected services, including enhanced mobile broadband, mission-critical communications, and the massive IoT. A defining capability of 5G is that it is designed for forward compatibility—the ability to flexibly support future services that are unknown today.

In addition to making our smartphones better, 5G mobile technology can help user in new immersive experiences such as VR and AR with faster, more uniform data rates, lower latency, and lower cost-per-5G can enable new services that can transform industries with ultra-reliable, available, low-latency links like remote control of critical infrastructure, vehicles, and medical procedures.

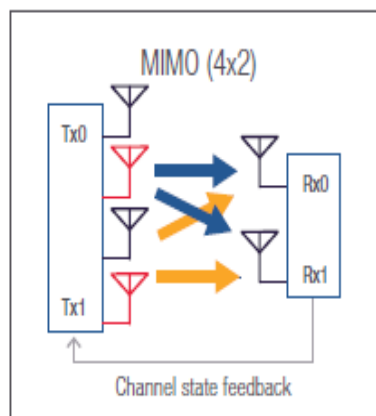
5G is meant to seamlessly connect a massive number of embedded sensors in virtually everything through the ability to scale down in data rates, power, and mobility—providing extremely lean and low-cost connectivity solutions.

MIMO USES ?

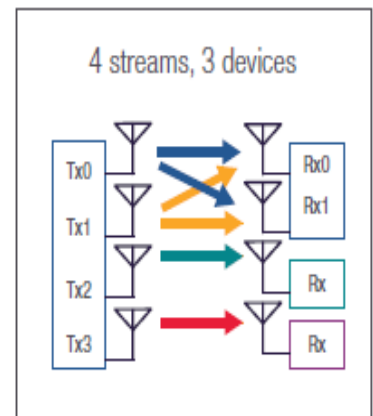
Spatial multiplexing



Beamforming



Multi-user MIMO



MIMO USES ?

- **Spatial Multiplexing:** A technique that feeds independent data into each antenna increasing data capacity
- **Beam Forming:** Directional transformation incorporating channel feedback to manipulate the beam shape and direction in real-time.
- **Multi-user MIMO:** Uses multiple beams directed at different devices to achieve even greater spectral efficiency.

Comparison & Insights



Hot Technologies in future ?

Hot Technologies



Empowered Edge



Distributed Cloud



Autonomous Things

Block Chain
Connected Vehicles***
Quantum Computing

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11.69K/s VOLTE 4G LTE 11:08 AM

m

Archana S has joined the meeting.

Covid-19 crisis -

Red

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(*Traditional Media)
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6. 5G & Emerging Technologies**

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Sathiya Thangavelu

Audience feedback which was received in the mail

Manju M <manjuece@rmkcet.ac.in>

to Jaiganesh, jasmine, HOD ▾

Wed, May 6, 6:27 PM



----- Forwarded message -----

From: "VENKATA NAGA SAI HARSHA NARA 17EC154" <venk17ec154@rmkcet.ac.in>

Date: May 6, 2020 6:11 PM

Subject: Feedback for the webinar

To: "Manju M" <manjuece@rmkcet.ac.in>

Cc:

The topic focused were the new trend's setup in the industry due to covid 19.

The industry expert had a very polished delivery, and great knowledge about the topic. He highlighted all the business, industrial trends . He further elaborated the talk by carrying out an indepth discussion on 5G technology and it's significance on the upcoming market trends.

His talks were very insightful and informative. He also was very keen to address the students doubts making things were Understandable and clear.