

NAGESH KARAJAGI ORCHID COLLEGE OF ENGG. & TECH., SOLAPUR

Mechanical Engineering Students Association

Report on

“Mechanical Engineers_ Being Future Ready” by Mr. Sandeep Raut on

30th April 2021

The Mechanical Engineering Student Association “MESA” has been arranged a online industry expert session “*Mechanical Engineers_ Being Future Ready*” by **Mr.Sandeep Raut** on 30th April 2021 at **12.30 pm**. The honorable Dr. B.K.Sonage has given the Presidential address, & welcomed the chief guest.

Mr.Sandeep Raut Chief Guest of the day has delivered speech on opportunities for mechanical engineers in software industries. He has explained the concept of Augmented Reality, Virtual Reality, Cloud Competing, & Data Science. Also he has explained the Industrial Automation, Internet of things and skills required in software industries in future. He described the culture of corporate life and how to handle work stress in corporate life. Total 185 students from second and third year mechanical attended the session.

The session was very interactive. He guided the students and solved all the queries of the students. This program was anchored by Mr. Shaikh Reyaan & Miss. Pratiksha Mabrukhane given vote of thanks.



NK Orchid College of Engineering & Technology, Solapur

Mechanical Engineering Department

MECHANICAL ENGINEERS - BEING FUTURE READY

Date & Time : 30th April 2021 ; 12.30 pm Platform : Microsoft Teams



Mr. Sandeep Raut
Group Leader - Technical Support
PTC Software India Pvt. Ltd.

- Completed B.E.(Mech) from WCE, Sangli in 2006
- Working in PTC Software India Pvt. Ltd. From Jan 2008 to till date
- EXPOSURE To PTC's Software:
 - Windchill PDMLINK, ProjectLink
 - Pro/ENGINEER Wildfire and Creo Parametric
 - Creo View
 - ProductView & Creo View Adapter
- RECOGNITION IN PTC
 - PTC's Technical Excellence Award in August 2009.
 - PTC's Technical Excellence Award in January 2011.
 - Technical Support Engineer of the month March 2011.
 - Award of excellence for contribution to KCS (Knowledge Management Project)

Mustakeem Siddhiki
MESA President

Prof. Yogesh. B. Patil
MESA Faculty Coordinator


Dr. Shrinivas S. Metan
HOD MECH

1:09 PM 145KB/s 10:59 175 attendees

Mechanical Engineers- Being Future Ready

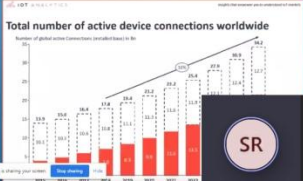
INTERNET OF THINGS

Network of physical objects—"things"—that are embedded with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet



What does it need ?

- Programming skills
- AI
- Hardware interface
- Business intelligence tools



Total number of active device connections worldwide

Number of global active connections per 1000 devices in 100

Year	Connections per 1000 devices
2010	1.0
2011	1.5
2012	2.0
2013	2.5
2014	3.0
2015	3.5
2016	4.0
2017	4.5
2018	5.0
2019	5.5
2020	6.0
2021	6.5
2022	7.0
2023	7.5
2024	8.0
2025	8.5

Raut, S

1:12 PM 73.8KB/s 14:02 177 attendees

Mechanical Engineers- Being Future Ready

AR VR

AR augments the real-world scene
VR creates completely immersive virtual environments.



What does it need ?

- Programming skills
- AR VR maintenance Support
- Design/Graphics



Projected AR and VR growth, 2016-2025

Revenue, \$billion

Year	Other sectors	Creative economy
2016	10	5
2017	15	10
2018	20	15
2019	25	20
2020	30	25
2021	35	30
2022	40	35
2023	45	40
2024	50	45
2025	55	50

Raut, S

1:28 PM 41.1KB/s 32%

Mechanical Engineers- Being Future Ready
29:14 175 attendees

RECOMMENDATION

Dream Big , Believe and Visualize that you already got it done

Some Inspirational Books

- *The Secret- Rhonda Byrne*
- *The Power of Subconscious Mind*
- *The 5 AM Club*
- *7 Habits of Highly Effective People*

SR VB


Raut, S

1:09 PM 145KB/s 38%

Mechanical Engineers- Being Future Ready
10:59 175 attendees

INTERNET OF THINGS

Network of physical objects—"things"—that are embedded with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet



What does it need ?

- *Programming skills*
- *AI*
- *Hardware interface*
- *Business intelligence tools*

Total number of active device connections worldwide

Number of global active connections (installed base) in Bn

Year	Number of global active connections (Bn)
2015	13.9
2016	15.8
2017	18.4
2018	21.8
2019	25.1
2020	28.2
2021	31.2
2022	34.2

SR VB

Raut, S

1:47 PM

...67.4KB/s 4G



Raut, Sandeep



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sujeet Wale A-49



Anant Mude se_b...



Reyaan Shaikh



SE B 82



SE B64 Premkumar





Mechanical Engi...

47:34 180 attendees



DATA SCIENCE

Blend of mathematics, business acumen, tools, algorithms and machine learning techniques, all of which help us in finding out the hidden insights or patterns from raw data which can be of major use in the formation of big business decisions



What does it need ?

- *Programming skills R/ Python*
- *Mathematics, Statistics*
- *Data Extraction/ Wrangling*
- *Big Data Analysis*
- *Visualization tools*



