JSPM's
Imperial College of Engineering & Research
(Approved by AICTE, Delhi & Govt. of Maharashtra, affiliated to Savitribai Phule Pune University)
Gat.No.720,Pune-Nagar Road,Wagholi,Pune-412207
Ph: 020-67335100 **Web:** www.jspmicoer.edu.in **Email:** principal@jspmicoer.edu.in
Accredited with Grade 'A' by NAAC

PROF. DR. T. J. SAWANT
FOUNDER-SECRETARY

DR. R. S. DESHPANDE
PRINCIPAL

Department of Electronics & Telecommunication Engineering

Organizes

Faculty Development Program

On

Augmented Reality (AR) & Virtual Reality (VR)

(05/07/2021 to 09/07/2021)

In Association with Buds Engineering Academy, Pune

Session wise Schedule

DAY – 1 [05/07/2021]

Session	Time	Details	Resource Person
I	1.30 pm to 2.00 pm	**Inaugural Function**	All the Dignitaries & Participants
II	2.00 pm to 3.00 pm	Keynote Address	**Dr. J. V. Desai** Vice Chancellor, MVN University
III	3.00 pm to 4.00 pm	Industry Experience: Recent Trends in AR /VR	**Mr. Amit Katti** Principal Engr. At SES Govt Sol, Washington DC **Mr. Arjun Ghule** Director RBG Group

DAY – 2 [06/07/2021]

I	2.00 pm to 3.00 pm	Introduction to Unity Architecture, Applications of AR_VR using unity	**Dr. Bhanu Sharma** Asst. Prof. at CURIN
II	3.00 pm to 4.00 pm	Industrial automation and Robotics simulation in VR	**Mr. Alister Dsilva** Director Absolute Motion Pvt. Ltd.

DAY – 3 [07/07/2021]

I	2:00 pm to 2:30 pm	Robotics using Unity software	**Dr. Bhalke D.G.** HOD E&TC, AISSMS COE, Pune
	2:30 pm to 3:00 pm		**Mr. Arjun Ghule** Director RBG Group
II	3.00 pm to 3:30 pm	Industry Experiences related to AR_VR	Mr. Victor Titus VMware, Senior Member, Atlanta USA
	3:30 pm to 4:00pm	Industry Experiences: AI & Finance Sector	Mr. Toshendra Dalvi Credit Trader/Quant, London, Eng. & UK

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DAY – 4 [08/07/2021]

Session	Time	Details	Resource Person
I	2:00 pm to 3:00 pm	Industry Experience: Role of signal processing in AR /VR	Mr. Ravikanti Vinay Kumar Staff Engr. Qualcomm India Pvt. Ltd.
II	3.00 pm to 4:00 pm	1st Level Application Creation for AR_VR	Mr. Nikhil Dhavase Asst. Professor, MMCOE, Pune

DAY – 5 [09/07/2021]

I	2:00 pm to 3:30 pm	Computer vision & Human Computer Interaction in AR /VR	Mr. Pratik Kamble Asst. Professor, MMCOE, Pune
II	3:30 pm to 4:00 pm	Industry Experiences: IT Sector in AR_VR	Mr. Sunil Akolkar Manager IT at Mytrah Energy India Ltd.
III	4.00 pm to 4:30 pm	Valedictory Function	All the Dignitaries & Participants

#Note: 1. All the Sessions will be conducted on ZOOM Online Platform.

2. Join the session 10 min before the scheduled time so as to avoid any further delays.

Dr. S. K. Bhatia
Head of Department

Dr. R. S. Deshpande
Principal

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Dept. of Electronics & Telecommunication
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Ref. No.: JSPM/ICOER/ENTC/ADMIN/2021-22/56 Date: 10/07/2021

EVENT REPORT

"5 Day Faculty Development Program on Augmented Reality & Virtual Reality"

1	Name of the Event	"5-Day FDP on Augmented Reality & Virtual Reality"
2	Day & Date of the Event	05/07/2021 to 09/07/2021
3	Time of the Event	2.00 pm to 4.00 pm
4	Venue of the Event	Dept. of E & TC (ZOOM Meetings Platform)

Sr. No.	Objective	Expected Outcome
1	Faculty can learn and explore the new cutting-edge technology AR & VR and can use this time available to them due to COVID 19 pandemic to update themselves so as to pass on to students and make use of this technology.	Various sessions will help the faculty members to unfold the technology in terms of its need, applications and available tools etc. This will help them to

5. Description:

(a)Introduction, Theme & Objective:

Introduction:

As Coronavirus spreads throughout the world most of us are in lockdown at home, we are left to wonder what a post-coronavirus-world might look like. There's a lot unknown about how the world will transform after we get the novel coronavirus under control, but it is extremely unlikely that things will just go back to exactly the way they were before. Our workplaces are likely to change, and with it, the skills companies will require. Hence Department of E & Tc has organized **"5-Day FDP on Augmented Reality & Virtual Reality"** for Faculty & Students which will not limit their creativity and help them to explore new things in their career.

Theme: Online sessions were arranged for Faculty as well as students to make them aware of one of the new cutting-edge technology AR & VR.

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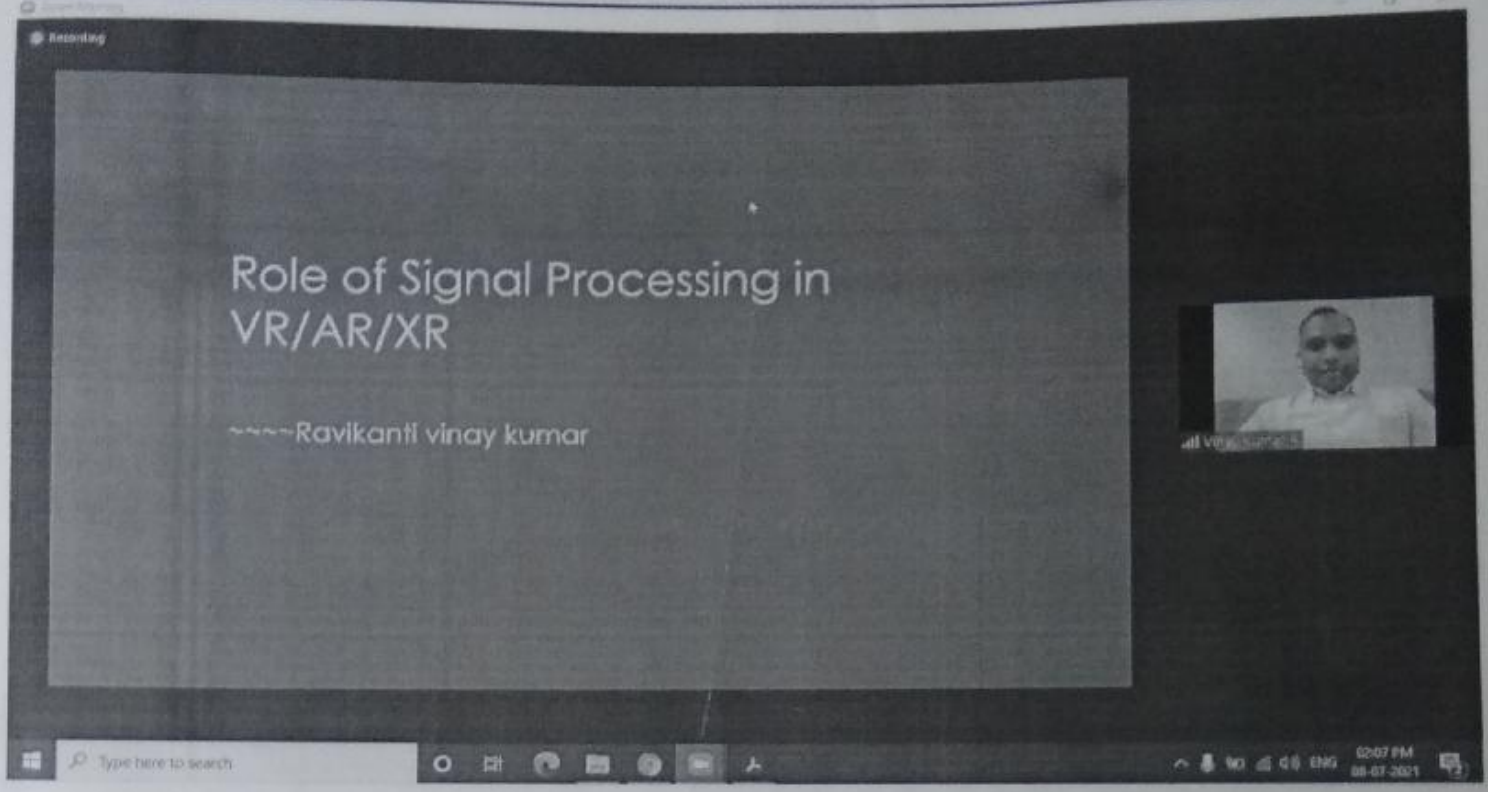

A Session by Mr. Ravikanti Vinay Kumar

Sign:
Name: V. B. Raskar, Dr. N. S. Labhade, P. S. Topannavar
FDP Coordinators

Sign:
Name: S. A. MAne
Faculty Coordinator

Sign:
Name: Dr. S. K. Bhatia
HOD

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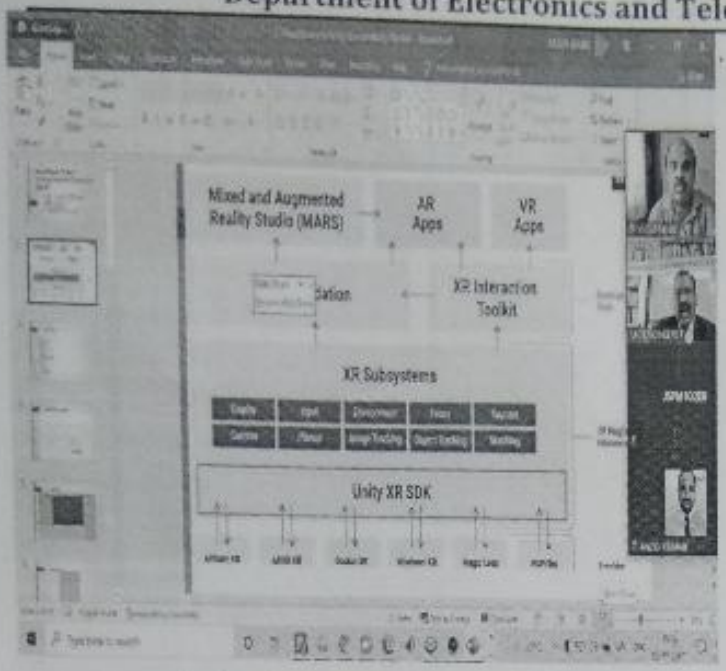
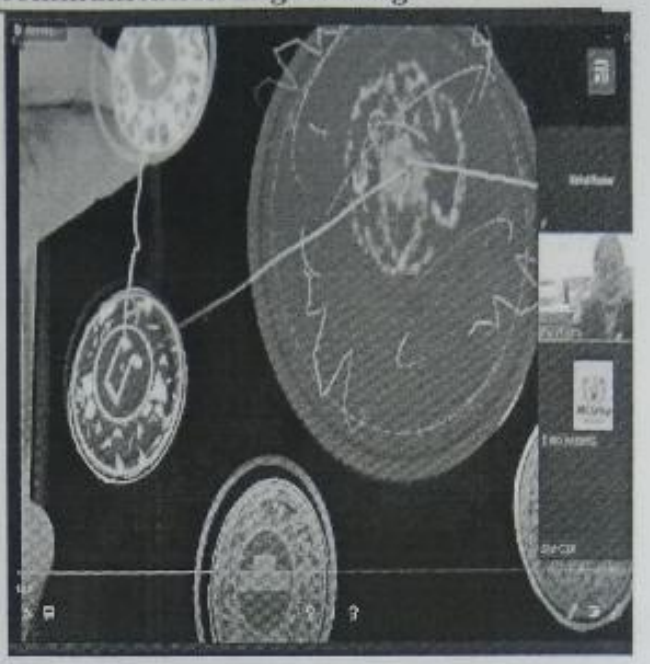
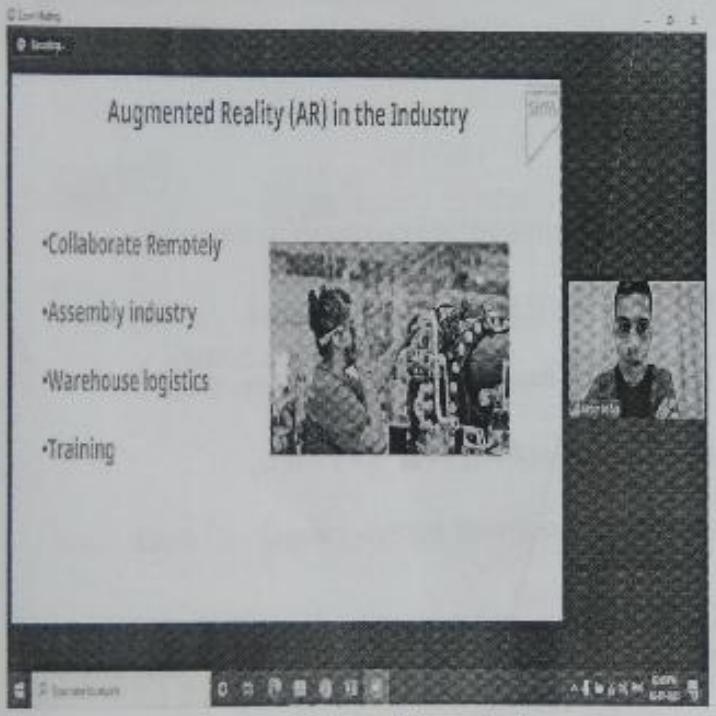


A Session by Mr. Arjun Ghule



A Session by Dr. Bhanu Sharma



A Session by Mr. Alister Dsilva

A Session by Mrs. Archana Ghule

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Objective: To make aware the faculty members and prepare the students with the skill set required for new cutting edge technology such as AR & VR.

(b) Conduction:

The **5-Day FDP** had a blend of experts from this AR & VR domain and all of them guided participants at their fullest capacity. The topics covered in the FDP were mainly focusing the basics of AR & VR, its need, applications and its interdisciplinary use. The FDP was arranged by **Dept of E&TC Engineering, ICOER** in association with **Buds Engineering Academy**, Pune.

A wide publicity was given by sending the messages through the SPPU HODs group as well as sending emails to all engineering colleges under Savitribai Phule Pune University. Also flyers sent to faculty over their WhatsApp contacts also. Since this technology is the new one and dept wants that not only faculty but also students get to know about this. By keeping this in agenda Students were also allowed to register for the same. To our encouragement, many participants have shown interest in this FDP and 163 (Faculty-89 Students-74) members have registered for the FDP through the google form link shared to them.

The detail Schedule is attached herewith for reference.

(C) Response, participation & outcome:

Faculty & Students from various departments of engineering colleges in and outside Pune attended and enjoyed all the sessions. All were benefited with the knowledge shared by esteemed resource persons.

(d) Photos of the event:

A Session by Dr. J. V. Desai

A Session by Mr. Amit Katti

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Ref. No. JSPM's/ICOER/ENTC/2020-21/152 Date: 10/05/2021

EVENT REPORT

International Webinar on **"Digital Twin Technology"**

1	**Name of the Event**	International Webinar on **"Digital Twin Technology"**
2	**Day & Date of the Event**	8th May 2021 (Saturday)
3	**Time of the Event**	11 am
4	**Venue of the Event**	Dept. of E & Tc (ZOOM Platform)

Sr. No.	Objective	Expected Outcome
	To make the participants aware of the new technology.	After attending the webinar, the participants will understand the concepts of Digital Twin Technology and the implementation aspects of it. Participants will also understand the future aspects of this technology.

5. Description:

(a)Introduction, Theme & Objective:

Introduction:

Digital twins are virtual replicas of physical devices that data scientists and IT pros can use to run simulations before actual devices are built and deployed. They are also changing how technologies such as IoT, AI and analytics are optimized.

Theme: Online session was arranged for UG, PG students, research scholars and faculty members to make them aware of the Digital Twin Technology concepts, which some of the participants may opt as job opportunity in future.

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Objective: To prepare the students with the skill set required for various job opportunities or to start their own start up.

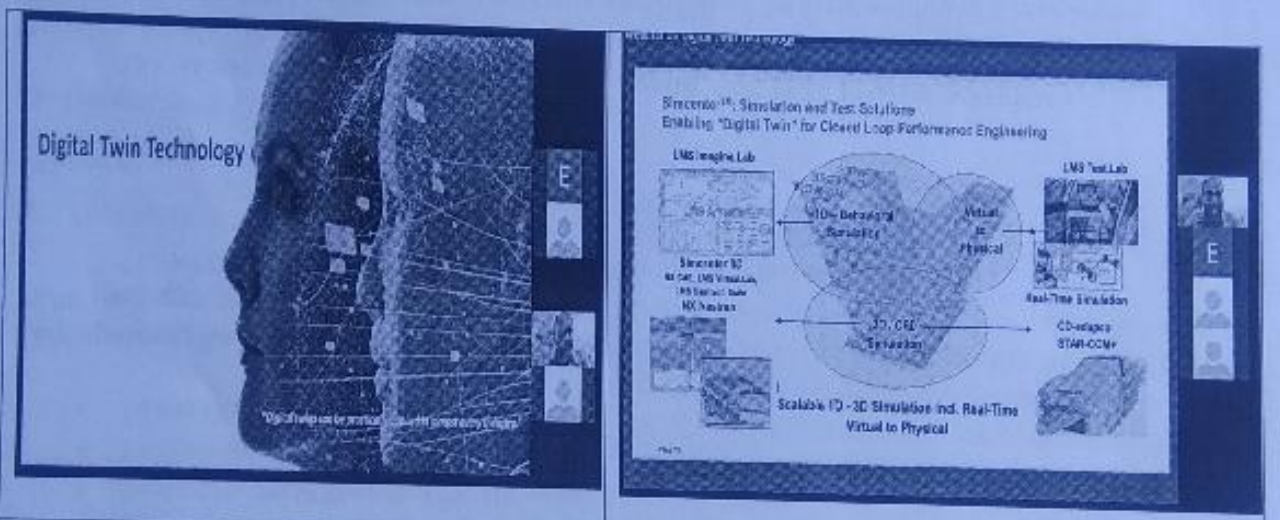
(b) Conduction:

The session was conducted by Dr Anand Nayyar, Scientist, Duy Tan University, Viet Nam using Zoom online platform, which was very much beneficial to the participants.

(C) Students response, participation & outcome:

Students from various departments of ICOER and other collages in Maharashtra and some students from outside Maharashtra attended and enjoyed the sessions. Students were benefited with the knowledge shared by esteemed resource person.

d) Photos of the event:



Dr. Nayyar's Session on Digital Twin Technology

Sign:	Sign:	Sign:
Name: A. S. Deshpande, V. B. Raskar	Name: S. A. MAne	Name: Dr. Bhatia S. K.
Event Representative	Faculty Coordinator	HOD

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