# **Augmented and Virtual Reality**









## Syllabus – AR VR

### (HAL-IISc Skill Development Program)

History and differences between Augmented and Virtual Reality Basics of Computer Vision and Multimodal Interaction AR systems for Fault Inspection, Digital Twin Head Up and Head Mounted Systems in Automotive and Aviation Domains Virtual Reality System development in Unity Rendering real time sensor data in VR model Human Robot Interaction using AR/VR systems

### Faculty: Dr. Pradipta Biswas, E-mail: pradipta@iisc.ac.in or office.sdc@iisc.ac.in

#### **Reference Books:**

- 1. Grigore C. Burdea, Philippe Coiffet, Virtual Reality Technology, Wiley 2016
- 2. Dieter Schmalstieg and Tobias Höllerer, Augmented Reality: Principles & Practice, Pearson Education India, 2016
- 3. Norman K (Ed), Wiley Handbook of Human Computer Interaction, Wiley 2017
- 4. Field A, "Discovering Statistics Using SPSS", SAGE Publications Ltd., 2009.

DATE: 20<sup>th</sup> Dec. 2020 to 26<sup>th</sup> Dec. 2020

Last date for Registration: 18<sup>th</sup> Dec 2020

**VENUE : Online** 

COURSE FEE : Rs. 1000/- per candidate

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## **Augmented and Virtual Reality**



Bank details are as shown below: (DD may not be encounceraged) Details of Bank accounts are as follows: (in the name of : Registrar, IISc)

| Name of the Bank  | CANARA BANK  |  |  |
|---|--|--|--|
| Bank Branch<br>(full Address)   | INDIAN INSTITUTE OF SCIENCE,<br>SCIENCE INSTITUTE POST OFFICE<br>BANGALORE – 560 012 |  |  |
| Bank Account Number   | 0683201000073  |  |  |
| Type of Bank Account  | Current Account  |  |  |
| Telephone Number of Bank  | 080-23600934   |  |  |
| Mode of Electronic Transfer Available in the Bank – ECS/RTGS/NEFT/CBS | RTGS – IFSC CODE NO.<br>CNRB0000683  |  |  |
| SWIFT CODE  | CNRBINBBLFD<br>0683201000073   |  |  |
| MICR Code of the Bank   | 560015023  |  |  |

Last date for Registration: 18<sup>th</sup> Dec 2020

