



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
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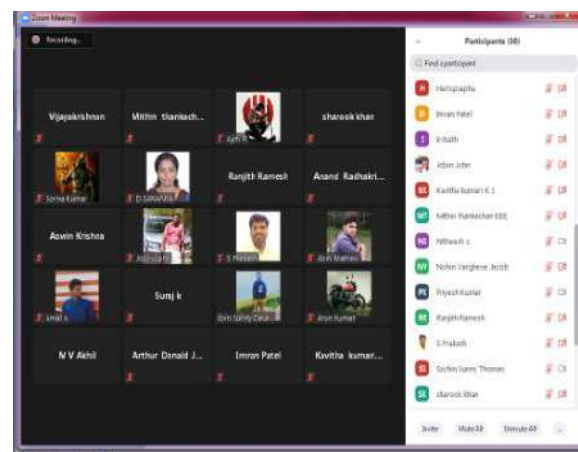
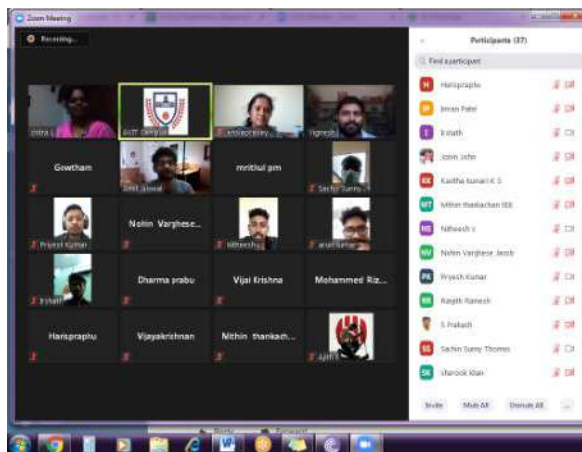


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## Report on Alumni report on Navigation Systems in Robotics



An Alumni lecture series was organised by the Department of Electrical and Electronics Engineering department along with the Alumni Association of AVIT on 23.05.2020 titled as “Navigation Systems in Robotics”.

This session was handled by Mr.Vignesh,(Batch : 2016, Branch : Mechatronics), who is currently a Project Manager with Thinkster Math. He started the session by giving an overview about the skill of navigation and the basic building blocks of a robot navigation system and its types. He briefed the robot navigation system as the ability of the robot to determine its own position in its frame of reference and then to plan a path towards a determined location. In order to achieve this, it has to navigate in its environment, which means the robot requires representation i.e a map for that particular navigation environment and the ability to understand that representation. And he also explained about Robot’s localization within its Frame of reference. And he elaborated about the map building. This map building can be either of metric map or it can be in notations representing the locations in the robot frame of reference.

And before he concluded he discussed about the various types of Navigation systems. It was a very interactive session.