

## Department of Mechanical Engineering

### ALUMNUS GUEST LECTURE

KLEF/ME/IQAC - STUDENT/2020-2021/SQ.9/ALUMNI CONTRIBUTIONS

Date & Time	26-06-2021, @ 3:00PM
Speaker	Mr. Ch. Umashanker (Y2ME229, 2006 Passed-out Batch, B.Tech in ME) Principal Engineer Haldor Topsoe, Denmark

Mr. Ch. Umashanker (Alumnus) is delivered a guest lecture on 26 June, 2021 @3PM in virtual mode through the web link given below.

**Topic:** Automation in Mechanical Engineering

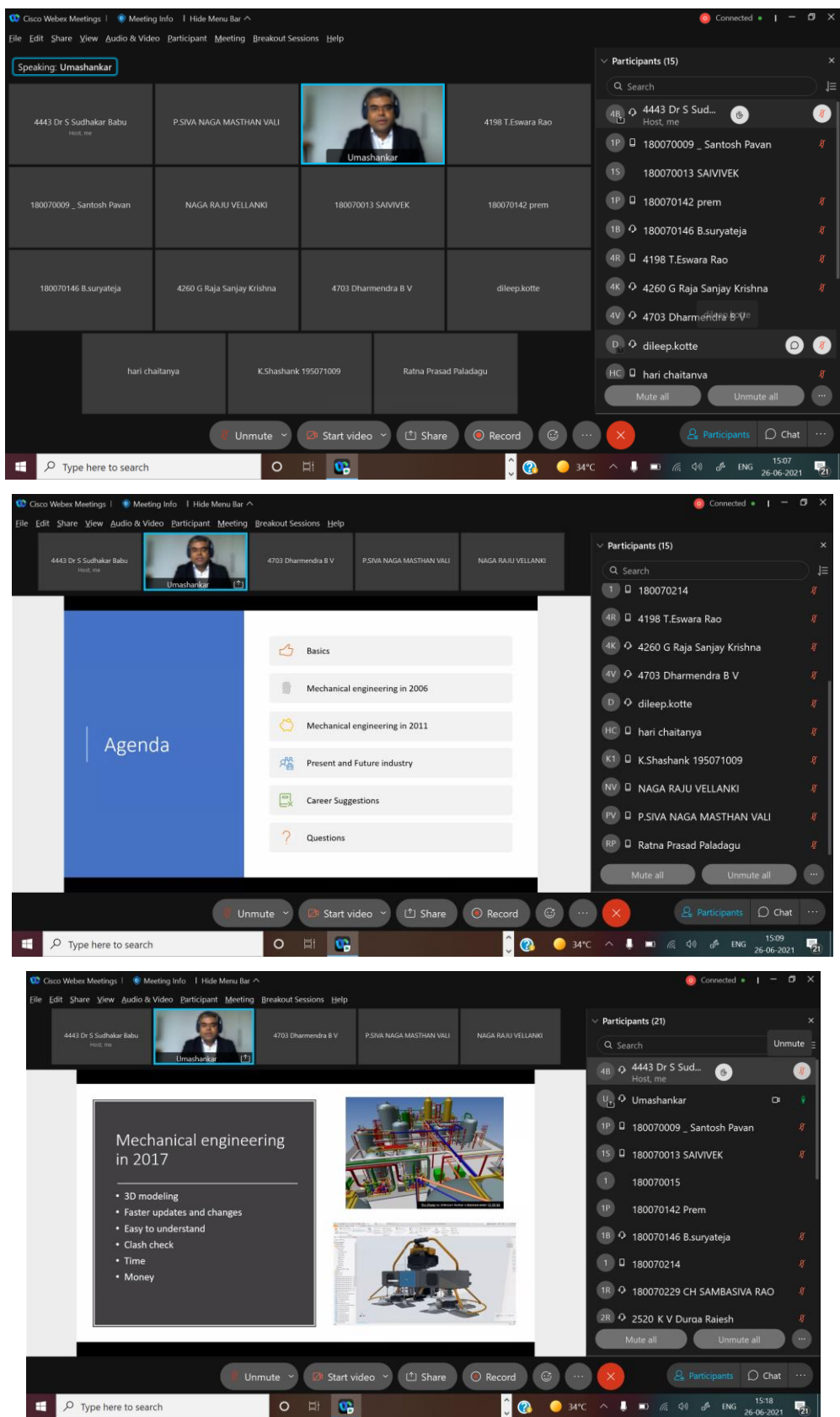
**Webex Link:**

<https://meetingsapac20.webex.com/meetingsapac20/j.php?MTID=mc39e64c67d99cf3d724ae148c6a8b>

**Targeted Audience:** All B.Tech, M.Tech Students and Interested Faculty (22 participants were attended the meeting)

The topic delivered by him is "Automation in Mechanical Engineering". He started with basic outline of his experience at oil and petroleum sectors and energy sectors. These industries include lot of refineries, piping, pumps, heat exchangers, etc. Depending on the output desired, they do backward calculation in order to find the size, dimensions of each component and flow parameters. Firstly, they do process flow diagram followed by process and instrumentation diagram, which clearly includes all the components, their sizes, process parameter values, etc. used in the plant. When he joined at Reliance Industries in 2006, they used to make hand drawings using drafters followed by making blue prints for multiple copies. Small automation has been made later in 2011, where VBA program is entered into AutoCAD using which size of the components can be easily modified. Further, 3D modelling came into existence with which the entire plant design can be made in weeks compared to months to years with earlier method of doing. He added many more things which are adopting at his company. Further, he gave the career options to the students available in the future. After that, he clarified some of the students queries. The students and other participants are delighted with his presentation and thanked him for his wonderful lecture.

The following are some of the photos taken during the presentation.



**Fig. 1 Mr. Ch. Umashankar (Alumnus) presentation pictures**

After his presentation, the faculty coordinator of alumni relations appreciated Mr. Ch. Umashankar for accepting and delivering a wonderful presentation despite of his busy works.

**Prepared by**

**(Dr. S. Sudhakar Babu)**

**Authorized By**

**HOD-ME In-Charge-Alumni Relations, ME**