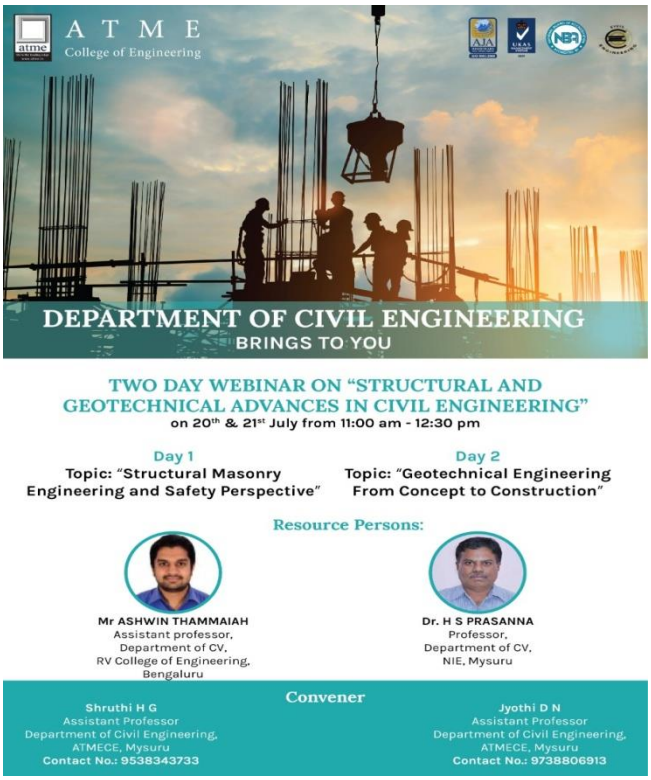
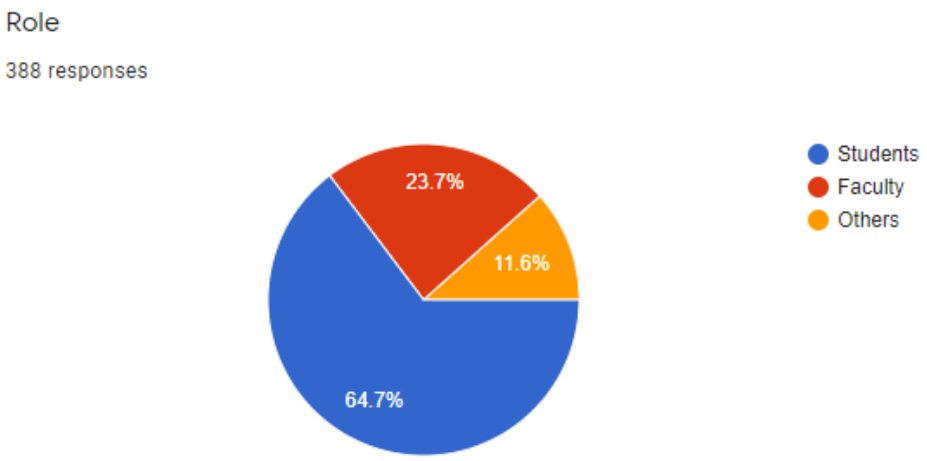
Two Day Webinar Report



Department of Civil Engineering organized Two day webinar on "Structural and Geotechnical Advances in Civil Engineering" on 20th and 21st of July 2020 in online through Microsoft team.

The overall quantity of individuals registered for 2 day Webinar on "Structural and Geotechnical Advances in Civil Engineering" is about 389 numbers. Participants have registered are students and faculty members from diverse institutes and industry persons to this event.



Day 1: Structural Masonry and Safety Perspective

The webinar session organized on 20th July 2020 is on "Structural Masonry and Safety Perspective" which was handled by Mr Ashwin Thammaiah K. He spoke on basic concept of Stone Masonry. Masonry is a popular construction technique around the world, due to its many advantages it is the oldest and remodelled construction and it is been using as new technique in construction field. In his lecturing he discussed about both Engineering and safety perspective. Masonry usually dealt with practical perspective that is how it can be seen from an Engineering view point and also spoke about historical evaluation of masonry has been done over the time. Basic material involved in the masonry construction in execution phase, reinforced masonry and improvement over the time and also characteristics of masonry, how it behaves in structural view point and also explained about structural masonry modelling by finite element analysis.

Day 2: "Geotechnical Engineering from concept to construction"

Geotechnical Engineering is a branch of Civil Engineering and deals with the mechanical behaviour of soil and rock, and their interaction with structures. Most Engineers with responsibility for design and construction of structure, energy and transportation systems need a working understanding of basic concepts of Geotechnical Engineering to gain confidence in dealing with a variety soil and foundation related problems that they encounter on Engineering projects. The webinar session organized on 21st of July was carried out by Resource person Dr.H S Prasanna. He spokes about 'Geotechnical Engineering concept to construction' dealt with the importance of fundamental of Geotechnical Engineering that is Index Properties of Soil and their determination,Classification of Soils and Clay Mineralogy,Permeability of Soils,Shear strength of the soil, Compaction and Consolidation of soil . He also explained about Applied Geo technical Engineering in construction filed it involves Sub-soil Investigation and Dewatering,Stresses in soil,Lateral Earth Pressures and Stability of Retaining walls,Stability of Slopes,Bearing Capacity of Soil , Reinforced Earth and settlement of foundations. He also showed videos on the concept of Analysis of seepage of foundation, Expensive soil and foundation cracks, Slide failure at dam, Slope or retaining wall failure, Dynamic compaction, Vibro compaction, Sheep foot rollers and Basic pile installation.