**Project Overview**

Engineering design problems are generally open-ended. They have no single correct answer, rather a range of possible solutions. The yearlong Capstone project keeps the desirability of open-ended design problems, the limitations of students’ knowledge and experience in check while helping us learn.

As we see in the various labs we attend we have numerous viva(s) and quizzes. This task of conducting vivas and quizzes is quite cumbersome for the teachers as it takes a lot of preparation. Also, the checking process is quite redundant, time taking and tiring which leads to delayed results.

So, our team is trying to create a product “ViQu” which is a solution to the problem. A product based on Raspberry Pi 3 along with some sensors will be created, which will be able to conduct vivas, create quizzes and even check them hence, creating a digitized result sheet instantly.

Moreover, a database of MCQs and subjective viva-like questions will be created overtime by the teachers which will help in the future. This question bank will have ques of 3 difficulty levels.

Finally, the product ViQu will be able to conduct vivas, mark them, create quizzes, mark them and we will have a fine database of questions for the above.