**K.J.SOMAIYA COLLEGE OF ENGINEERING, VIDYAVIHAR, MUMBAI-77**

(Autonomous College Affiliated to University of Mumbai)

**Project Proposal Form**

Department : Information Technology Category: Internal (Internal / External)

Academic year: 2018-2019

1. Title : Speech to 3D Scene Generation.

2. Scope :

Speech to 3D Scene Generation is planned to be a Desktop Application. The goal is to convey and share designs and knowledge in a simpler and a more captivating manner. Our plan with this project is to make it useful for various applications like, an education purpose platform for teaching in schools or colleges, where the professor can simply deliver the lecture and the PC automatically generates the depiction of the situation, wherein the scene will keep changing according to the lecturer's speech dynamically, with near real-time rendering continuously. It can also be used in corporate environments where presentations and designs play an important role; Imagine being able to generate a precise 3D scene for explaining exactly what the boss or an employee is trying to suggest or propose to the company and its members without the need to put in the efforts to make a Powerpoint presentation or show a video. Another important scope of this project exists in the creative industry. Today, the designers and architects are asked to make the 3D graphics using existing softwares which can end up consuming hours of their important time, to save that time they will now simply be able to generate the same 3D graphics on-the-go as they speak. We intend to make an application that can not only generate a specific set of scenes but also generate unique scene descriptions like precise geometric objects and mathematical graphs. Finally, we plan to introduce AI to this project so as to make it able to predict and decide what each specific user exactly wants which will result into better reliability, efficiency and faster generation.

3. Hardware and Software requirements:

Hardware: Microphone, Windows Operating system running computer.

Software: Visual Studio v15, python repository.

4. a) Sponsoring Organization and address (if project is external / sponsored)

None.

b) Name of person in charge of the project and his/her Tel. no and email:

None.

5. Name of students and roll nos. :

1. Manthan Sanjay Turakhia – 1624013
2. Umang Nenshi Nandu – 1624016
3. Prayesh Parag Shah – 1624019
4. Siddharth Shashi Sharma – 1624020

6. Name and signature of the staff member in charge:

Mr. Sagar Damodarrao Korde -

7. Signature of Project coordinator: