Title : EDI / D&I / Major P
Registration & Progress Review **FF No. 180**

Department: I&C Engg.	**Academic Year: 2020-21**
Semester: 4	**Roll No.: 26**
Project Title: Face Filters For Camera	
Project Area: Signal and image Processing	

Group Members Details:

Sr. No.	Class & Div.	Roll No.	G.R. No.	Name of Student	Contact No.	Email ID
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Project approved / Not approved **Approved**

Guide Coordinator Head of Department

Project Synopsis	**Synopsis** **IMPORTANCE OF THE DECIDED PROJECT (2/3 LINES)** **A Face filter is a feature within the social platform that allows you to edit your photo with one click, by simply applying preset edits to the image that the filter has created for you.** **STEPS TO DO THE PROJECT/ METHODOLOGY (components, circuit, how will you design the project model (10 LINES)** **1. Hardware requirement: A very powerful Laptop** **2. Software requirement: Python, OpenCV** **TENTATIVE EXPECTED RESULTS / OUTCOME FROM THE PROJECT (2/3 LINES)** **The expected result from this project is that I will learn at least the basics of Image Processing in Python.** **CONCLUSION**: **The project is to create filters which can be used with anything like Photos, Videos, Camera for fun.**

FF No 180

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Activity	Review Schedule	Progress Review Report submitted	Signature of Guide
Review 1	Mid Sem. Semester	Yes / No **YES**	
Review 2	End of Semester	Yes / No **YES**	

Algorithms Used:

1. Used haarcascade_frontalface_default.xml file as Cascade Classifier with OpenCV library to identify faces in the images and videos.
2. Then with the respective sizes of one's face, the filters are resized.
3. The Last step is to apply the filters in some particular region of the image.

Results:

Original Image -

After applying the filter -