**Course Name: Computer Vision**

**Course Code: 19AI621**

**Course Advisor: Dr. Senthilkumar T**

**Title: Lane Detection for Autonomous Vehicles using Computer Vision Algorithm**

**Submitted By:**

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**Spatial Domain Operations on Case Study Image**

**Original Image:**

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**Image Smoothing**

#### **Average Filter**

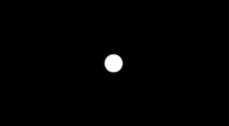
#### **Weighted Average Filter**

**Frequency Domain:**

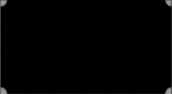
**Image After Applying Noise:**

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**Low Pass Filter:**

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**Decentralized Image:**

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**Processed Image:**

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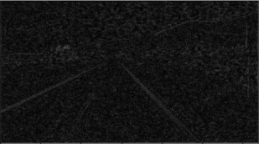
**High Pass Filter:**

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**Decentralize:**

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**Processed Image:**

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