



Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering



Final Year B.Tech. Project- Abstract

Department: Civil Engineering

Project Title	Design and Simulation of Musical Road	
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Name of the Guide/s	Guide: Prof. P.P. Ankad Co-Guide: Dr. Ganesh W. Rathod, PE	
Abstract	<p>Road accidents are most unwanted thing to happen to a road user, though they happen quite often. Most of the road users are quite well aware of the general rules and safety measures while using the roads, but it is only the laxity on part of road users, which cause accidents and crashes. Driver's inattentiveness and over speeding of vehicles are major causes for large number of road accidents.</p> <p>According to the latest National Crime Records Bureau (NCRB) data:</p> <ol style="list-style-type: none">1. The majority (59.6 %) of road accidents were due to "over speeding"2. Highways (both National and State) which accounted for about 5% of total road network witnessed a disproportionately large share of accidents of 55%. <p>The motivation of our project is to resolve the issue of accidents by making the road an auto-warning system using the concept of musical road. Musical Road are roads that can produce music or tunes when a car passes through them. These type of Roads will be deployed particularly on dangerous stretches to discourage speeding, with the melody providing a warning or only being recognizable at a safe speed. The idea behind this project is not to force the users to reduce the speed, rather the users will be interested and feel encouraged themselves to reduce the speed.</p> <p>In the present study, an attempt has been made to design and simulate the patterns of musical road. Indian classical musical notes are studied and based on their frequencies, grooves of varying widths are designed which will be efficient to create desired music when the car passes through it.</p>	
Remarks on IPR or Publication	Has potential for IPR Has potential for publication.	
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