# SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

*Department of Computer Science and Engineering*

## Certificate

Certified that the project work entitled **"DISTORTION RESISTANT ROUTING MECHANISM FOR VIDEO TRANSMISSION IN WIRELESS NETWORK"** carried out by, **Rajat Jaiswal (1SG12CS085), Shilpa K (1SG12CS102), Sirisha P R (1SG12CS111), Srinagarathna M (1SG12CS112),** bonafide students of **this institute,** in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2015-16.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work (10CS85) prescribed for the said degree.

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# ABSTRACT

The demands on video traffic over wireless networks have been increasing while the wireless link capacity cannot keep up with the traffic demand. The gap between the traffic demand and the link capacity, along with time-varying link conditions, results in poor service quality of video streaming over mobile networks. Therefore the objective is to formulate an analytical structure to understand and assess the impact of the wireless network on video distortion. The structure allows to formulate a routing policy for minimizing distortion, based on which the proposed design provides an algorithm for routing video traffic that will be efficient in reducing the video distortion and minimizing user experience degradation that can be shown with the help of simulation.