

Write-up for NIE Newsletter

“Best Project of the Year” under 43rd Student Project Programme of KSCST



STUDY OF STRUCTURAL BEHAVIOR OF FLOATING COLUMN

COLLEGE: THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU

GUIDE: (1) Dr. BALAJI N. C.

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Students from left to right:

Ms.Kanchana B. N., Ms. K. T. Jyothsna, Ms.KumblaAnupaNayak, and Mr.Kiran Kumar Patil

A residential building's utmost concern has always been occupiable space for circulation and amenities, be it underground parking space in apartments or public buildings, in banquet halls or in

case of enhancing aesthetics or for mere architectural competition. To achieve the same, techniques like waffle slab, flat slab, reduced thickness partition wall are being implemented. A floating column is also one such ingenious idea to increase the liveable floor area.

In this KSCST sponsored project an analytical study was conducted to learn the structural performance of a floating column in a building. In addition to the analytical study, a portable setup of electronic sensor and Raspberry Pi microprocessor was developed as a low-cost alternative to the existing sensor in the Structural laboratory. Application of Raspberry pi in the field of Civil Engineering is a crucial step forward in Udyog Bharat 4.0, an Industry 4.0 initiative of Government of India, which aims towards putting to use technology like automation, Internet of Things, and many more in core disciplines of Engineering.

Note: Please publish studentgroup photo in Newsletter.