



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust®

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NAME OF THE EVENT:	INDUSTRIAL VISIT TO NIRMITHI KENDRA, SURATHKAL
ORGANISING DEPARTMENT / COMMITTEE :	DEPARTMENT OF CIVIL ENGINEERING
NAME OF THE CO-ORDINATORS:	Mrs. Suman Kundapura, Asst. Prof., Dept. of Civil Mr. Dileep Kumar U., Asst. Prof., Dept. of Civil
DATE :	23-09-2019
NAME OF THE RESOURCE PERSON :	Mr. Rajendra Rao Kalbavi, Project Manager, Dakshina Kannada Nirmithi Kendra, Srinivasanagar, NITK, Mangalore. Mr. Navith, Assistant Engineer, Dakshina Kannada Nirmithi Kendra, Srinivasanagar, NITK, Mangalore.
NO OF PARTICIPANTS :	34

A technical visit to "DAKSHINA KANNADA NIRMITHI KENDRA" was organized for the Civil Engineering students of third semester who have just entered their respective branches. A half day visit to the Nirmithi Kendra was informative and productive. The Government of India has established the building centers like Nirmithi Kendra, in each of the district under the National Network of "Building Centers" in India. These Building Centers are the "Technology Transfer" Centers which will promote and propagate the proven technologies from the R&D institutes in India like CBRI, SERC, IIT, RRL etc., to the field on "Lab to Land" principles.





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During the visit, the Bio-Digester for Toilet Unit was explained to the students by Mr. Navith, Engineer, Dakshina Kannada Nirmithi Kendra. The importance of Bio-Digester, its applications, installation methods in existing buildings and new buildings was explained to the students. The system was developed by DRDE for Indian army personals use at Siachin Glacier which was further patented by MMICPL for the use of public. Bio-Digester is a unique innovation in the world of sanitation. It consists of Bio-toilet attached with bio-digester tanks. The microbial inoculum used in the bio-digesters converts the human faecal matter into reusable water and bio-gas. He took the students around the organization, where various types of structures were constructed using cement, brick, chicken mesh, hollow blocks, etc.,

Rain water harvesting structures being the need of the hour was very well demonstrated by Mr. Rajendra Rao Kalbavi, Project Manager, Dakshina Kannada Nirmithi Kendra. Finally, a live demonstration of an arch structure using brick and mortar was shown at the site. The arch was completed within 10 mins and the supporting formwork was also removed. Further the structure was loaded within the initial setting time of cement i.e., 30 mins. The strength and its stability of the structure to carry the loads was demonstrated. The effect of horizontal thrust was discussed. Students were given an opportunity to mould and unmould the bricks at the site. They also invited students to take up project works and interships at Nirmithi Kendra, where they will be providing material and space for the work. Overall the industrial visit was food for thought for being the innovative Civil Engineers of the new generation.

CO-ORDINATOR

HOD/CHAIRMAN

PRINCIPAL

CC To:

1. President, LMET
2. Vice President, LMET
3. File