



GUJARAT TECHNOLOGICAL UNIVERSITY
BABARIA INSTITUTE OF ENGINEERING AND TECHNOLOGY, VARNAMA.

REPORT OF EXPERT LECTURE

Academic Year 2015-16

Program was scheduled as per the given details

- Topic : Repair and Rehabilitation of Buildings.
- Date : 30-01-2016
- Day : Saturday
- Venue : Smart class 1, BITS Edu campus, Varnama.
- Name of speaker : Mr. P.V. Darji , Director(technical), Smart NDT system, Vadodara
- Student class : BE VII and BE V and BE IV (Civil Engineering)
- Program Schedule :

Time	Event	Managed By
10:00 am to 01:00 pm	Expert Lecture	Asst.Prof.Mamta Rajgor Asst.Prof. Ronak Patel

- **MOMS:**

- Mr. P.V.Darji has wide industrial experience. Now a Days Mr. Darji is working as a Director (Technical) at smart NDT system, Vadodara.
- The expert talk session was started at 10:00 am at smart class 1.
- Asst.Prof.Mamta Rajgor lad from Department of civil engineering presented introduction of Mr. Darji to students and welcome Mr. Darji on behalf of the Institute.

- Mr. Darji started a lecture by delivering basic information of history of cement and concrete, history of R.C.C. structures, Production of cement to students.
- He delivered scenario of old buildings and how repairing of buildings can be done to students and further he focused on Durability of Concrete structures.
- He discussed the pyramid of cheopos and the architecture of Constantine, Rome and also the Ancient Bridge of china.
- Different properties of concrete and Drawbacks of concrete were discussed.
- He discussed different type of cracks in R.C.C. structures and its causes.
- He also discussed repair silo walls and fibre wrapping and further he discussed the preparation of wen surface of plaster band to remove cavity.
- Final quality control after repairing was discussed.
- Mr. Darji emphasized to students about NDT of structures and also discussed about Earthquake damaged structures.
- Tension cracks in silos, water thrust and Pressure due to reinforcement were discussed.
- He also focused on E-glass fibre composite in which fibre cloth can be adopted easily.
- He also explained the appoxy gravity and different structural failures. Further he also explained the dam failure due to flooding.
- He also explained the methods of underwater construction.
- He also explained the chemical applications of reinforcement and repairing of the structure and also the different type of chemicals to improve the strength of concrete.
- After completion of expert talk HOD of civil dept. Dr. Lalit S. Thakur delivered thanks to Mr.Darji and his colleagues to spare their valuable time for students.

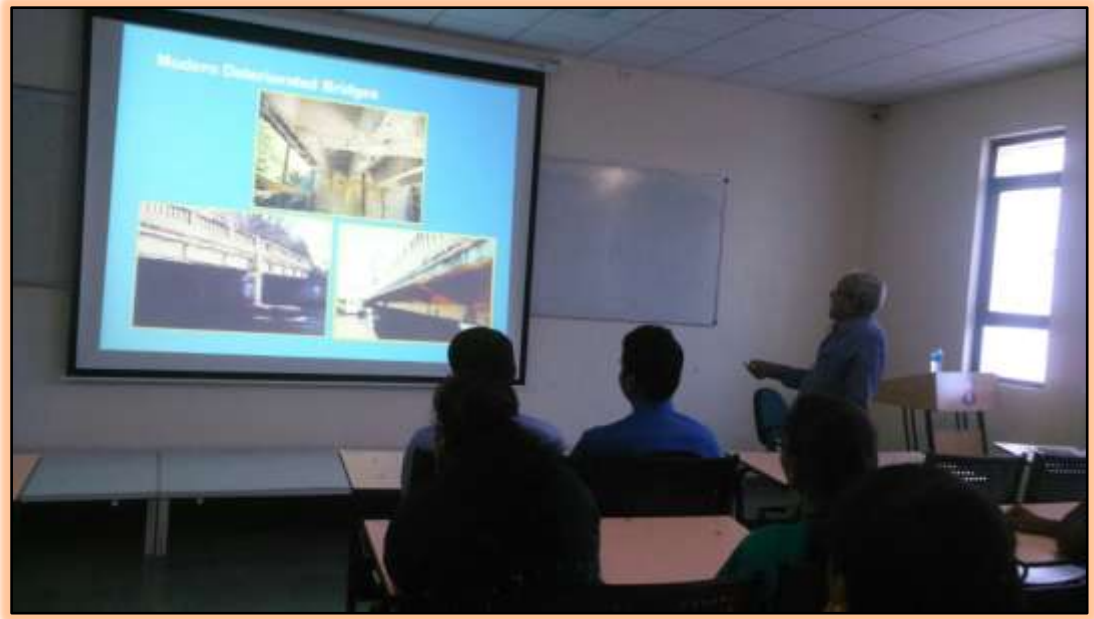
- Photos :



Mr. Darji delivering expert talk to students.



Mr. Darji delivering expert talk to students



Mr. Darji delivering expert talk to students



Mr. Darji's interaction with student.

