DEPARTMENT OF COMPUTER SCIENCE AND SYSTEMS ENGINEERING

An Expert Lecture on

"Design Principles of Secure Operating Systems"

The Department of Computer Science and Systems Engineering organized an expert lecture on **"Design Principles of Secure Operating Systems"** by **Dr. N.V Naredra Kumar,** Assitant Professor, IDRBT - Hyderabad delivered under IIIC through TEQIP-II for III B.Tech CSSE students in on 17th September, 2016.

Dr. N V Narendra Kumar enlightened the students on "How the Operating Systems work and where are the security lapses in the Operating systems design" and "how to fix those issues". He explained about the OS file permissions viz Read(r), Write (w), Execute (x) for Owner, Group and Others. He mentioned about TCB (Trusted Computing Base), the TCB in the computer is Hardware and OS kernel. Application must trust these that they will perform the task rightly. Then he discussed on Access Control. He also presented a demonstration about his research.

Dr. N V Narendra Kumar interacting with students

Students listening to the lecture

110 students participated and gained knowledge on Design Principles of Secure Operating Systems. The outcomes of the lecture are as follows:

1. Students will develop successful design of operating systems.

2. Students fix the problems in designing of operating systems.

3. Students will apply operating systems file permissions Read (), Write (), and Execute () in case of designing of operating systems.

4. Students will understand the Trusted Computing Base, the TCB in the computer is hardware and OS kernel.