Sarvajanik University

Sarvajanik College of Engineering & Technology Department of Information Technology

Report of an Expert Talk on "Security Aspects of Operating System" held at IT Dept, SCET on 7th July, 2021



Operating system security (OS security) is the process of ensuring OS integrity, confidentiality and availability. OS security refers to specified steps or measures used to protect the OS from threats, viruses, worms, malware or remote hacker intrusions. OS security encompasses all preventive-control techniques, which safeguard any computer assets capable of being stolen, edited or deleted if OS security is compromised. The objective of the talk is to make students aware about a distinct concept of operating system which is outside of their regular curriculum. The knowledge of fundamentals of secure operating system and access control mechanism prepares students for further competitive exams as well as for further studies. The details about the event are as follows:

Speaker	:	Dr. S. D. Panchal,
		Professor and Director, Graduate School of Engineering and
		Technology, GTU, Gandhinagar.
		Ex-Registrar GTU
Topic	:	Security Aspects of Operating Systems
Date & Time	:	7 th July 2021 (2:00 PM – 4:00 PM)
Venue	:	Online (Google Meet)
Coordinator	:	Dr. Dhruti Sharma
Targeted	:	Students from IT/CO/MCA
Audience		
Participants	:	100+ Students and Faculty members of IT department

The session was started with fundamentals of Operating System followed by the following major concepts:

- Secure operating system Definition, Goal, Threat Model, Trust Model
- Confidentiality, Integrity and Availability (CIA) Triad
- Access Control Fundamentals
- Secure Kernal
- Protection System
- Reference Monitor etc..

At last, the question-answer session was conducted where different queries from students have attended by Prof S. D. Panchal. The session has ended by Vote of Thanks from Dr. Dhruti Sharma.

We got overwhelming response from the students of IT/CO/MCA department with around 120 entries. Besides SCET College, we also got entries from other nearby colleges viz. C.K. Pithawala, Surat; SNPIT, Bardoli; Pacific school of engineering, Surat; K. J. Institute of Engineering & Technology, Savli etc. The faculty members from IT department have also attended the session.

We are grateful to Dr. Mita Parikh, HOD, IT Dept for her guidance and co-operation in arranging the expert talk. We also extend our gratitude towards Dr. Chirag Paunwala,

Dean R & D, and Dr. Hiren Patel Principal SCET for encouraging the staff members to organize such an event.

Find herewith some **Glimpses of an Event**







