

A Report on Guest Lecture
"Cyber Security by Design"
Organized by Department of Computer Science & Technology
in association with MITS ACM Student Chapter
on 27-09-2024



Organized by: Mr. P. Lakshmiramana, Assistant Professor, Department of CST

Resource Person details: Mr. M. Abhiram Sharma, Manager – Cyber Security, Deloitte India Pvt. Ltd., Bengaluru.

Participants: Students from various Departments like CST, CSE, CSE-AI, CSE-CS, CSE - AI & ML etc.

Attendance: 130 (Internal)

Venue: Seminar Hall - B (South Block)

Mode of Conduct: Offline

Report Received on 30.09.2024.

Department of Computer Science & Technology has organized Guest Lecture on “Cyber Security by Design” on 27-09-2024, from 2PM to 4PM.

Objective:

This one-day Guest Lecture on “Cyber security by design” aimed to provide knowledge about Cyber-attacks aimed at various IT applications and the countermeasures to overcome them. This session made the students understand the need to think about the Security principles from the very early phases, like the Design Phase in the SDLC models. This lecture is an eye-opener for the naïve developers who always focus more on developing the product, giving the least priority to Security.

The Program started with the Welcome Address by **Dr. K Giridhar**, Assistant Professor, Department of CST. **Mr. P Lakshmiramana**, Coordinator of the event, gave brief introduction of the Resource Person. **Mr. Abhiram Sharma**, Manager, Cyber Security for Deloitte India has been working in the Cyber Security field from 2017. He pursued his B.Tech degree in Computer Science & Engineering from GITAM School of Technology (GST), GITAM Bengaluru in 2017. He started his career as a Security Analyst at Price Water Coopers (PWC) in 2017 and worked in different roles like Security Consultant, Sr. Security Consultant, and Manager at PWC, EY, and Deloitte.

Dr. Dinesh, HOD, Department of CST briefly explained the need of Cyber Security and the recent developments available in this field. He also expressed the future plans of the Department in the field of Cyber Security.

Dr. P Ramanathan – Vice Principal – Academics addressed the gathering about the various opportunities available in Cyber Security domain. He wished and motivated all the participants to grab the opportunities in this Domain.



The **Resource person, Mr. Abhiram Sharma** has started the session by extending his heartily thanks to the students, organizing members, HOD, Principal and Management of MITS, Madanapalle for giving him opportunity to share his knowledge, experience and insights about Cyber Security.

He started the session with the basics like “What is Cyber Security?” and explained the need for Cyber Security with real time examples. He explained about CIA triad and other Security principles. He then started the SDLC of the product and discussed the drawbacks of it in Security perspective. He introduced Secure SDLC (SSDLC) framework and its role in developing Security applications. He also explained the process of evaluating the Security of the systems using “Compliance audit framework”.

He concluded the session explaining the roles and responsibilities of Security professionals like Security Programmer, Analyst and Manager. He also explained about his journey from Security Analyst to Manager and the certifications he done through his career. He addressed various questions raised by the students.

Q & A Session:

Many students were keen on taking Cyber Security as a career and asked various questions and got answers from the Resource Person. The following are few questions asked by many students.

1. What prerequisite courses need to be done to become Cyber Security professional?
2. What certifications need to do?
3. How to prepare OSCP certification?
4. What do industry expect from Fresher who looks career in Cyber Security?
5. Many Companies are asking 3 Years’ experience for OSCP certified personal. How to gain such experience.
6. Apart from OSCP certificates what are other important certificates?



The session ended by **Dr. K. Dinesh, Head of the Department, MITS**, thanking the resource person, faculty members and students, and expressed his gratitude to the Management and Principal for giving permission and support to organize this program.

Vote of Thanks:

The session got concluded by Vote of Thanks at 3:55pm by Lakshmiramana. The resource person is felicitated by HOD, Coordinator, staff and students.

Outcomes of the Event:

At the end of the session

1. Students Recalled the basics of Cyber Security principles.
2. Understood the concept of “Cyber Security by Design”.
3. Secure SDLC framework is introduced students.
4. Got the knowledge of “Compliance Audit” framework
5. Understood various roles & responsibilities of a Security Professional.
6. Got some knowledge on various certification programs.