GNITS

ecehod . <ecehod@gnits.ac.in>

(21·3)

Request for allowing students to visit your facility on 2/3/18. from ECe students of G,>Narayanamma Institute of Technology and science , Hyderabad

Sreenivas K <ksree@ensurity.com>
To: "ecehod ." <ecehod@gnits.ac.in>

Wed, Feb 28, 2018 at 5:08 PM

Dr.Venkateshulu,

We're pleased to accept your request to walk through our products and technologies for your students. Since 2/Mar is a holiday, we are confident that we can accommodate all your students in one go. We shall respond to their questions, if they have any.

Thanks & Regards,

Sreenivas K

Vice President – Projects

Mobile: +91.9866.075.085

Ensurity Technologies *(formerly Unik Systems)*

#1355-H&I, Niharika Jubilee One, 4th Floor, Road # 1, Jubilee Hills, Hyderabad 500033, India

Tele: +91-40-2355.4033 / 2354.1001; Fax: +91-40-2355.4034

Mail: ksree@ensurity.com ; Web: http://www.ensurity.com/

Location Map: http://x.co/ensurity

From: "ecehod ." <ecehod@gnits.ac.in>
Date: Wednesday, 28 February 2018 at 16:55
To: <ksree@ensurity.com>
Subject: Request for allowing students to visit your facility on 2/3/18. from ECe students of G,>Narayanamma Institute of Technology and science , Hyderabad

[Quoted text hidden]

28/2/18

f I

2/28/2018, 5:20 PM

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[Quoted text hidden]

Industrial Visit - 02/03/2018 - Students List - IV/IV ECE A,B,C

Roll No.	Name	Signature
14251A0412	← Absent →	
14251A0428	K. Sahithee	K. Sf
14251A0430	M. S. Roopa	Rog
14251A0440	M. Priyanka	M. Priyanka
14251A0464	← Absent →	
14251A0467	← Absent →	
14251A0468	← Absent →	
14251A0480	K. V. N. S. Sriveena	Sriven
14251A0489	M. Alekya	M. Alekya
14251A0490	M. Srilatha	M. Srilatha
14251A0496	← Absent →	
14251A04A5	← Absent →	
14251A04A6	← Absent →	
14251A04B2	← Absent →	
14251A04B3	T. Hemanjana	
14251A04B6	V. V. M. S. Prasida	V
14251A04B7	V. Chaitanya	Vigya
14251A04B9	Vijaya Pavilry	Pavali
14251A04C3	Ravali Aerra	
14251A04C4		Niharika
14251A04D2	C. Niharika	Haji
14251A04E2	Hajra Nishath	Panill
14251A04E6	K. Ramya Reddy	Kalyani
14251A04E9	R. Kalyani	tuy
14251A04F1	M. Soutri	
14251A04F2	Manisha	manisha
14251A04F6	Anuradha	Auille
14251A04G2	Meghana	Meghana
14251A04G3	P. Suprdy	Supriya
14251A04G5	R. Raihoni	Rayhari
14251A04H2	V. Akshatha Prasad	Ar
14251A04H8	Shruti P Kotau	shruti
14251A04H1	← Absent →	
15255A0402	G. Maneesha	Man
15255A0403	T Snehitha Reddy	Sh
15255A0404	B. Sruthi	Sruthi
15255A0424	← Absent →	
15255A0428	Ramya Sree	Ramya

2/3/18
Signature of HOD

G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
ELECTRONICS AND COMMUNICATION DEPARTMENT
INDUSTRIAL VISIT
TO
ENSURITY

A batch of B. Tech students of IV/IV ECE along with the Head of the department and one faculty co-ordinator visited Ensurity on 2nd March, 2018. It is located near jubilee hills road no.85. They mainly focus on providing secure end to end communications. They are the only company in India who are working on network security part of cyber security.

We were greeted by Sreenivas K who has more than a decade of experience in networking security. He looks after network security installations at client's side. He started the session by explaining what ensurity does. Their first product was used for securing the telephone lines in PM's office. After the success of this they were requested to do the same for FAX. Both the prototypes were enclosed in small boxes which were claimed to be tamper proof in which they had a patent. These security devices were done using FPGA boards and completely hardware. They were customizable by the user, providing a sense of security by not depending on the dealers.

They got an offer from ISRO to secure their digital networks. They have ventured into many ways of securing digital communication using hardware. The module for ISRO used optical light and a mathematical algorithm to generate different keys. The first model had a speed of 16MB and the second module had about 100MB. The 256bit key had two parts, one was from noise from the optical light and the other was from the user side. They had a patent in generating keys which are used in packets.

Later they became involved with cryptography for secure keywords where the image is fragmented in different patterns. This was utilised for the banking sector. They used 3DID's FIDO for authentication and generating orthogonal codes and cryptography. They had created their own application Ensurity for communication among them like WhatsApp, but the documents sent had a limited life, called as vapor messaging.

From the producer's association they got a request to secure their print such that it cannot be pirated. They came up with THINC USB. A tamper-proof compact USB device with on-board biometrics (upto 40) for secure authentication, encrypted storage and read-only operating system for secure remote access. It uses AES256 encryption. It has individual and shared partitions with read and write access. There is no use for passwords. This can be done by having allowed access on only one network. They are also working on securing IoT devices.

So, the visit was successful in providing the information on the branch of network security which is an integral part of our digital world. It was a stimulating environment with creativity running high and efficient in solving security problems.

2/3/18