



# Centre of Excellence in Cyber Security

## Jawaharlal Nehru Technological University

### Hyderabad



**Dr R.Sridevi**  
**Professor in CSE &**  
**Coordinator, Centre of Excellence in Cyber Security,**  
**JNTUH University Hyderabad**  
[coecybersecurity@jntuh.ac.in](mailto:coecybersecurity@jntuh.ac.in)

# Centre of Excellence in Cyber Security

**JNTUH Established Center of Excellence in Cyber Security** on 10th June 2020 per the needs of industry, society & also research. The field of cyber security is playing a vital role where to control the cyber-attacks & crimes as most of our activities today are on cyber space.

## **Objectives :**

- To create an awareness in cyber security at Students, Faculty and also Society level.
- To provide Trainings & internships for the students in the field of Cyber Security to make them job ready.
- To train the faculty, intern they train other faculty as well as students.
- To identify research gaps in the field of cyber security and provide an environment for the researchers & students to develop solutions.

# **Vision & Mission**

## **Vision**

**Leadership in Cyber Défense Capabilities and Secure Digital Assets.**

## **Mission**

- **To promote Cyber Hygiene, encourage R&D in combating Cyber crime, threats and other cyber risks.**
- **Create a state of the art SoC and Test labs for Cyber Defence & forensics.**
- **Strengthen Law enforcement for Combating Cyber Crime and privacy protection.**

# New Programme

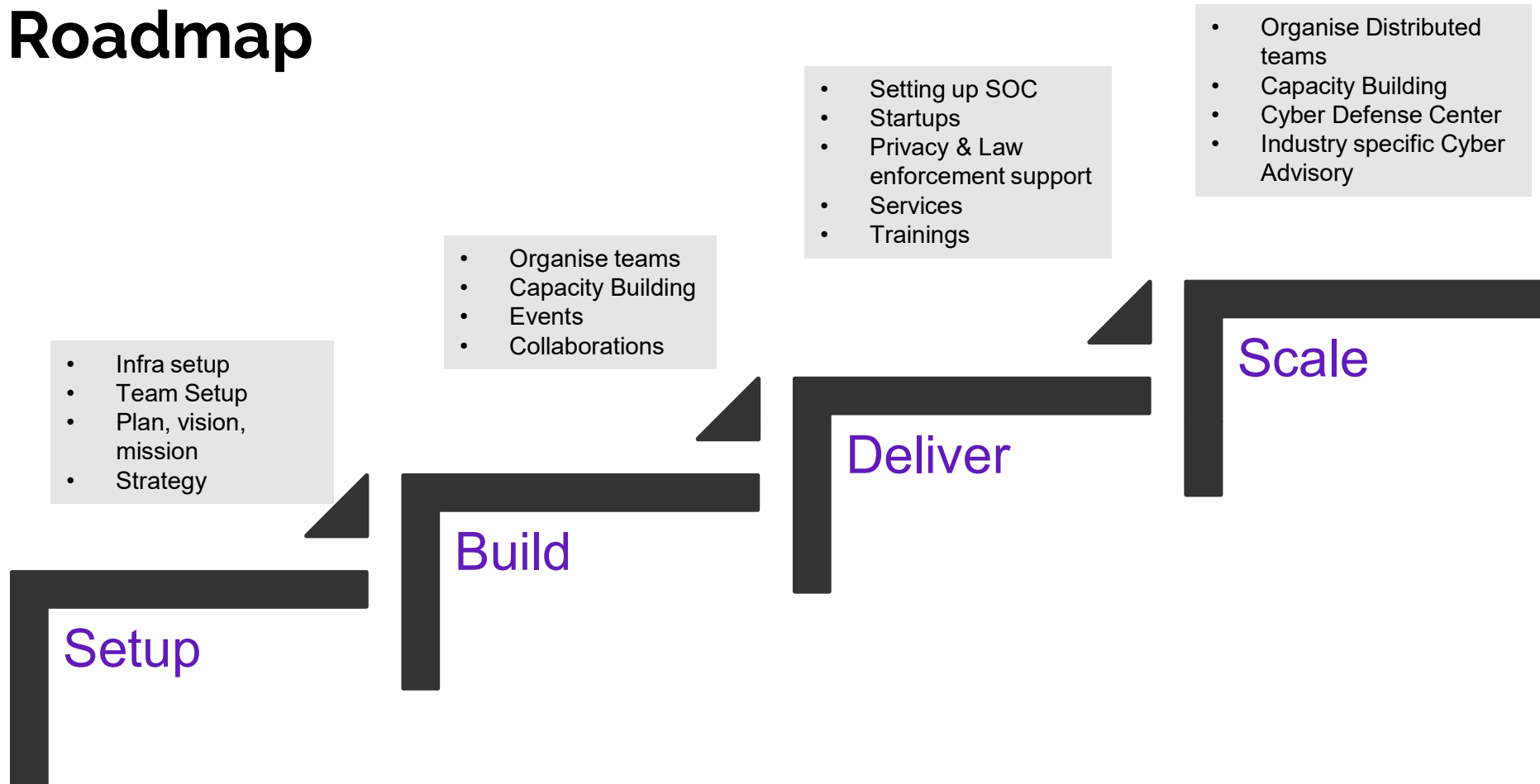
As per the industry requirements, JNTUH University commencing a new UG Programme **B.Tech CSE (Cyber Security)** from this Academic year 2023-24 .

# JNTU Cybersecurity Framework & Stakeholders



- Engagement & Awareness
- Assistance for Govt. & Citizens
- Collaboration with CERT
- Threat Monitoring & Advisory
- Cyber Security Test Beds
- Support Law enforcement
- Capacity Building
- Encourage Startups
- Promote Research using Grants

# Roadmap



## Programmes organized by the CoE in Cyber Security, JNTUH

S. No	Program Title	Date
1	2 day Online Faculty Development Program on “Cyber Security & Forensics”	07-07-2020 & 08-07-2020
2	15 day Online Faculty Development Program on “Cyber Security”	24-08-2020 to 09-09-2020
3	10 day workshop on “Cyber Security & Forensics”	30-03-2021 to 09-04-2021
4.	12 weeks Online Internship Program on “Cyber Security & Forensics”	28-06-2021 to 18-09-2021
5.	12-Weeks Online Certificate Program on “Excellence in Cyber Security” as 3 levels, each 4 weeks 1. Associate Level 2. Professional Level 3. Master Level	14-03-2022 to 19-08-2022 ( 3 Levels)
6.	University Level competitions on the occasion of the Golden Jubilee Celebrations on “Cyber Security & Narcotic Drugs” – Short film & Essay writing – Prize money- Rs-72,000/- with the TSCHE	24-09-2022

## Programmes organized by the CoE in Cyber Security, JNTUH

S. No	Program Title	Date
7.	2 Day FDP on “Cyber Security”	2-3, December, 2022
8.	Expert talk on “ <b>Artificial Intelligence</b> ” Dr Subhash Challa, CEO of Sensen.ai, Australia	19th December, 2022
9.	ISEA Workshop on “ <b>IoT Eco System: Security challenges and opportunities</b> ” in collaboration with C-DAC, Hyderabad & IIT Gowhati	9th January, 2023
10.	10 day Online workshop on “ <b>Cyber Forensics</b> ”	15-02-2023 to 25-02-2023
11.	2 weeks Online Training of Trainers Programme on “ <b>Cyber Security Essentials</b> ” in collaboration with C-DAC Hyderabad	15-02-2023 to 28-02-2023
12.	10 day Workshop on “ <b>Cyber Security &amp; Forensics</b> ” in association with C-DAC, Hyderabad	22-5-2023 to 1-6-2023
13.	CoE in Cyber Security, JNTUH as Spoke to run FS-Prime for the following courses: 1. <b>Pragmatic Approach to Cyber Security</b> 2. <b>Block chain Technologies</b> 3. <b>Introduction to 3D Printing and CAD Modeling</b>	Online platforms by Future skills prime

## Industry Collaborations

S.No	Program Title	Activity	Industry Name
1	MOU with <b>Telangana State Forensics Science Laboratory (TSFSL)</b>	<ul style="list-style-type: none"> <li>2 students successfully completed Internship at TSFSL.</li> <li>2 more students are doing Internship at TSFSL.</li> <li>TSFSL Staff is resource persons for programs organized by the CoE in Cyber Security.</li> </ul>	<b>Telangana State Forensics Science Laboratory (TSFSL)</b>
2	Working in collaboration with the <b>Central Forensics Science Laboratory (CFSL)</b>	<ul style="list-style-type: none"> <li>2 students successfully completed Internship at CFSL.</li> <li>CFSL Staff is resource persons for programs organized by the CoE in Cyber Security.</li> </ul>	<b>Central Forensics Science Laboratory (CFSL)</b>
3	Agreement with <b>C-DAC, Hyderabad</b> for Future Skills Prime (FS Prime) by Miety, NASSCOM & C-DAC, Hyderabad	CoE in Cyber Security, JNTUH as Spoke to run FS-Prime for the following courses: <ol style="list-style-type: none"> <li><b>Pragmatic Approach to Cyber Security</b></li> <li><b>Block chain Technologies</b></li> <li><b>Introduction to 3D Printing and CAD Modeling</b></li> </ol>	<b>C-DAC, Hyderabad</b>
4.	Working in collaboration with the <b>TCS</b>	<ul style="list-style-type: none"> <li>TCS Staff are resource persons for programs organized by the CoE in Cyber Security.</li> <li>TCS experts guidelines are taken in preparation of research project funding proposals</li> </ul>	<b>TCS</b>

## List of Internship Projects in 12-week Internship Programme

Team No	Project Title	Mentor
1.	Vyapaar Suraksha	Mr.V. Muralidhar, Head, Embedded Systems, TCS
2.	Vyapaar Suraksha	Mr.V. Muralidhar, Head, Embedded Systems, TCS
3.	create a trapdoor malware application	Ms.Pritidhara Mishra Security Solutions Consultant, CTS, UK
4.	create a key logger malware application	Ms.Pritidhara Mishra Security Solutions Consultant, CTS, UK
5.	Survey on Cyber-Security Tools and Techniques	Mr Pavan Kumar Kota Senior Associate Consultant Infosys
6.	Survey and Analysis of open source and limited use commercial tools used in security testing of mobile application	Dr N.P.Dhavale Associate Professor, IDRBT
7.	Survey and Analysis of open source and limited use commercial tools used in security testing of mobile application	Dr N.P.Dhavale Associate Professor, IDRBT
8.	Identifying the web application vulnerabilities	MsAslesha. Gadpal Systems Engineer, Infosys.
9.	Secure Authentication Service	Mr Ganesan Ramani, Lead Auditor IT, Royal Shell
10.	Manual Vs Automatic penetration Dr R.Sridevi , JNTUH	Mr. S. Jaya Krishna Rao / Mr Manish Lead Consultant,Enter Soft IT Solutions Labs

## List of Internship Projects in 12-week Internship Programme

Team No	Project Title	Mentor
11.	Manual Vs Automatic penetration	Mr. S. Jaya Krishna Rao / Mr Manish Lead Consultant, Enter Soft IT Solutions Labs
12.	Web penetration testing	Mr. S. Jaya Krishna Rao / Mr Manish Lead Consultant, Enter Soft IT Solutions Labs
13.	Hardening Linux Kernel	Mr Sagar Chavan Project Engineer, CDAC
14.	Extracting browser artifacts of tor browser using ftk tool and HxD	Mr M .Krishna Asst. Director, Central Forensic Science Lab
15.	Cyber Crime Investigation by Osint Tools Dr R.Sridevi , JNTUH	Mr M .Krishna Asst. Director, Central Forensic Science Lab

## List of Internship Projects in 12-week Internship Programme

Team No	Project Title	Mentor
16.	Digital Forensic Techniques for investigation of Cyber Crimes	Mr K.N.Swamy, Asst.Director, Incharge Cyber Forensics Division, AP Forensic Science Lab, Mangalagiri,
17.	Digital Forensic Techniques for investigation of Cyber Crimes	Mr K.N.Swamy, Asst.Director, Incharge Cyber Forensics Division, AP Forensic Science Lab, Mangalagiri
18.	Understanding Digital Footprints, Internet Artifacts and Impact of Digital Evidence in Criminal Justice system	Ms K. Anjana, Scientific Officer, Telangana State Forensic Science Laboratory
19.	Data Acquisition, Preservation and Quality Assurance in Digital Forensic process	Mr.JayaPrasad. Botsa Senior Forensic Examiner, Scroll
20.	Facets of Mobile device Forensics and challenges in Digital Investigation	JayaPrasad. Botsa Senior Forensic Examiner, Scroll

## Students Internship details (Completed)

S.No	Student Name	Class	Organization	status
1	Nyakapu Rajender	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Telangana State Forensics Science Laboratory, Hyderabad	Completed
2	Madala Preethi	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Telangana State Forensics Science Laboratory, Hyderabad	Completed
3	Banoth Seva	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Central Forensics Science Laboratory, Hyderabad	Completed
4.	Banoth Jansi Rani	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Central Forensics Science Laboratory, Hyderabad	Completed

## Students Internship details (On going)

S.No	Student Name	Class	Organization	status
5.	Mohammed Rashid Ahmed	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Telangana State Forensics Science Laboratory, Hyderabad	On going
6.	Mandha Prashanth	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Telangana State Forensics Science Laboratory, Hyderabad	On going
7.	P. HariKrishna Reddy	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Central Forensics Science Laboratory, Hyderabad	On going
8.	B.Shashi Preetham	M.Tech (CFIS)- II Year Dept. of CSE, JNTUHCEH	Central Forensics Science Laboratory, Hyderabad	On going

# Notifications

1. FS Prime Skills “[Pragmatic Approach to Cyber Security](#)” with – CoE in Cyber Security & C-DAC, Hyderabad.
2. FS Prime Skills “[Introduction to Blockchain Technologies](#)” – CoE in Cyber Security & C-DAC, Hyderabad.
3. FS Prime Skills “[Introduction to 3D Printing and CAD Modeling](#)” – CoE in Cyber Security & C-DAC, Hyderabad.

## MoU between CoE in Cyber Security, JNTUH & Telangana State Forensics Science Laboratory on 06-06- 2022



## Agreement of Association between CoE in Cyber Security, JNTUH & C-DAC, Hyderabad on 06-06- 2022 to run FS Prime



## Centre of Excellence in Cyber Security, JNTUH-Logo Inauguration



## University Level Competitions on “Cyber Security & Narcotic Drugs” as part of Golden Jubilee Celebrations on 24-9-2022



## University Level Competitions on “Cyber Security & Narcotic Drugs” as part of Golden Jubilee Celebrations on 24-9-2022



## University Level Competitions on “Cyber Security & Narcotic Drugs” as part of Golden Jubilee Celebrations on 24-9-2022



## 2 Day Faculty Development Programme on “Cyber Security” (02-12-2022 & 03-12-2022)



## 2 Day Faculty Development Programme on “Cyber Security” (02-12-2022 & 03-12-2022)



# 15 Day Online Faculty Development Programme on “Cyber Security” (24-08-2020 – 09-09-2020)



Dr Sridevi R.



Viewing JNTUH Meetings's ...



Information Security Education & Awareness



CYBERSECURITY CENTRE of EXCELLENCE  
A joint initiative of DSGI & Government of Telangana

## 15 DAY Online Faculty Development Programme on “CYBER SECURITY”



**Sri Jayesh Ranjan, IAS**  
In-charge Vice-Chancellor  
JNTUH



**Dr. A. Govardhan**  
Rector, JNTUH



**Dr. M. Manzoor Hussain**  
Registrar, JNTUH



**Dr. R. Sridevi**  
Co-ordinator,  
CoE in Cyber Security  
JNTUH

Course Duration : 24.08.2020 - 09.09.2020

### CENTRE OF EXCELLENCE IN CYBER SECURITY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD



# 12 Weeks Online Internship Programme

## Cyber Security & Forensics



*Heartful Thanks to Expert Session Resource Persons*



**Ms K. Anjana**  
Scientific Officer,  
TS FORENSIC SCIENCE LAB  
HYDERABAD



**Sri G. Narendra Nath, ITS**  
Joint Secretary,  
National Security Council Secretariat



**Dr. R. Sridevi**  
Professor in CSE &  
Coordinator, CoE in Cyber Security, JNTUH



**Dr K.V.K. Santhy**  
Associate Professor  
Nalsar University



**Mr. S.M.Vijay Kumar**  
IPS, DCP Traffic &  
Cyber Crimes



**Dr. Shiva Prakash,**  
Retired Professor  
IISC, Bangalore



**Prashanth Kumar Sahoo**  
PDI Software LLP



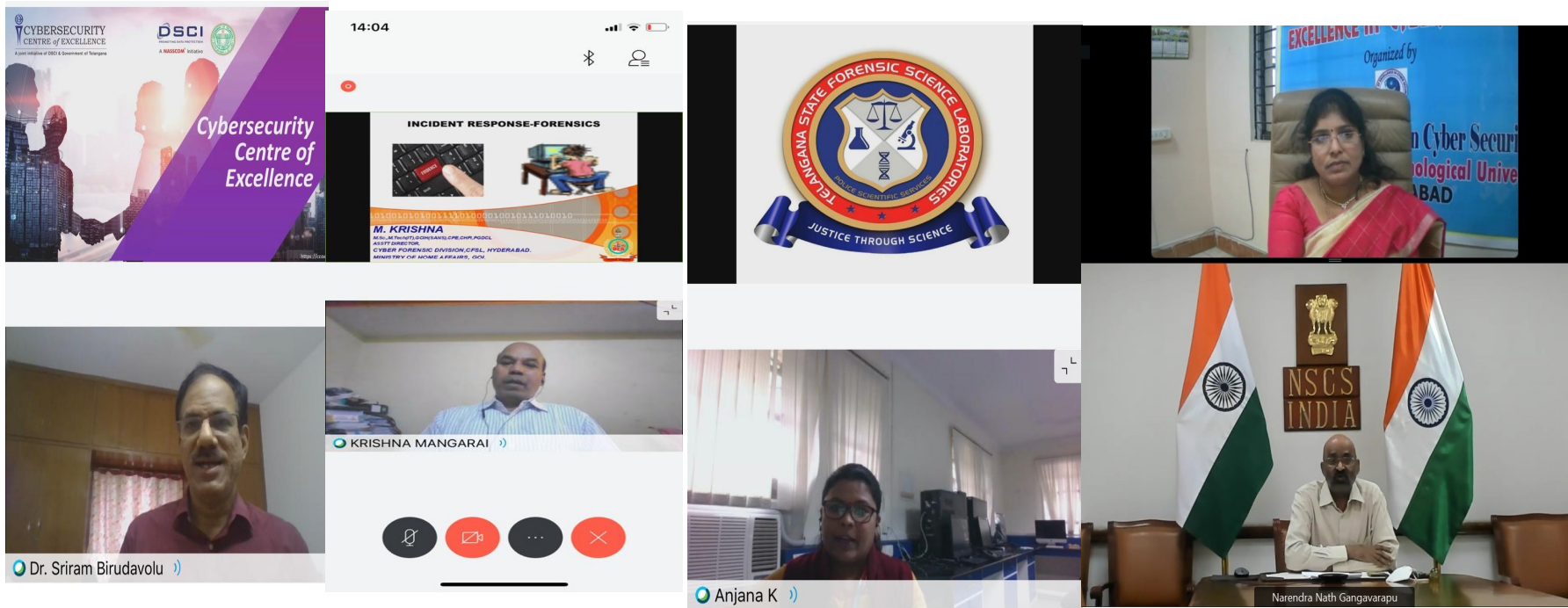
**Mr. Vishal Adada**  
Security Analyst  
E&Y Bangalore



**Mr K.N.Swamy**  
Assistant Director  
Incharge Cyber Forensics Division  
AP FORENSIC SCIENCE LAB

**CENTRE OF EXCELLENCE IN CYBER SECURITY**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

# 2-day Online FDP on “Cyber Security & Forensics” on 9-10, July, 2020



# Awareness Program on 3<sup>rd</sup> June 2023



# Valedictory Session of 10-day Online Workshop on “Cyber Security & Forensics”

(30.03.2021 to 09.04.2021)

Organized by Centre of Excellence in Cyber Security, JNTUH

Thanks to the Resource Persons of 10 -DAY Online Workshop on  
“CYBER SECURITY & FORENSICS”  
(30.03.2021 to 09.04.2021)



Mr. Jaya Krishna Rao,  
Lead Consultant,  
Entersoft IT solutions  
Labs Pvt Ltd



Mr. Raghunath,  
Security Consultant,  
Eracorp Technologies



Mr. Venkat, Head – IoT  
Edge Technology &  
Consulting, TCS



Dr V. N. Sastry,  
Professor, IDRBT



Mr. M. Krishna,  
Asst Director, CFSL



Mr. K.N. Swamy  
Asst. Director, APFSL



Dr. K.V.K. Santhy,  
Associate Professor,  
Nalsar University of Law.



# Thank you