



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

A NAAC Accredited Institute

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-16, Anakapalle – 531002, Visakhapatnam, A.P.

Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

CIRCULAR

Anakapalle

Dt:- 14-11-2020

Department of Computer Science and Engineering is hereby informed that, in view of the feedback received from III B.Tech. students of CSE branch regarding skill enhancement and to improve the expertise of students in Cyber Security, HOD is advised to depute a faculty from CSE to design and develop a suitable course structure in line with advanced topics of Cyber Security for working on real time applications III B.Tech. students of CSE branch with over 30 working hours. Please ensure that this Add-on course helps them to understand the basic Cyber threats, vulnerabilities, and attacks on systems, networks, or data. Make arrangements to deliver the course from next week onwards.

PRINCIPAL

Dadi Institute of Engineering & Technology



Approved by AICTE & Permanently Affiliated to JNTUK
NAAC Accredited Institute & Inclusion under Section 2(f) & 12(B) of the UGC Act
NH-16, Anakapalle, Visakhapatnam, Andhra Pradesh
9963694444, 9963981111, www.diet.edu.in, info@diet.edu.in

Department of Computer Science and Engineering

Presents
A four Week Training Program
on

“Cyber Security”

(25-11-2020 to 21-12-2020)

Course Instructor

Dr.L.Prasanna Kumar

Associate Professor, Department of CSE

Venue:

Computer Lab 1, First Floor, DIET



About the Institute

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards among the students and enable them to Build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co- educational college in Anakapalle which admits only academically promising students.

About CSE Department

The Department of CSE was established in the year 2006. It offers B.Tech. Program with an initial intake of 120. It also offers M.Tech. Program in Computer Science and Engineering. The department has good infrastructural facilities with full fledged laboratories equipped with adequate hardware and software. The faculty members are actively involved in research and are publishing papers in reputed national and international journals/conferences.

About the course

Students will be able to learn cyber security becomes essential to identify the various cyber threats, vulnerabilities and attacks on systems networks or data.



Computer Science and Engineering

Cyber Security

Course Instructor:

Dr. L. Prasanna Kumar
Associate Professor, CSE Department
Dadi Institute of Engineering & Technology

Duration:

4 Weeks: (25/11/2020 – 21/12/2020)

Overview & Need for the Course:

Students are instructed to learn the basics of cyber security in this course. However they need to learn some advanced topics for working on real time applications. The course covers content required to develop basic projects on cyber security.

Course Objectives: To

- Understand the basic basic cyber attack techniques.
- Provide knowledge on cyber security mechanisms.
- Cryptography
- Secure-System Design Methodology
- Risk Assessment
- Cyber Attacks
- Develop the skill required to handle large amounts of data.

Course Outcomes:

By the end of the course, the student will be able to

- Handle cyber attacks.
- Provide security due to cyber attacks.
- Develop real time projects using cyber security.

Requirements:

- Basic Knowledge on cyber security.
- A Computer with an Internet Connection.

Course Contents:

1. Course overview
2. What is cyber security
3. Key concepts on cyber security
4. Pre-Requisites
5. Popular Attacks - Hacker Motivation
6. Popular Attacks
7. Phishing Attack
8. Introduction to Cryptography
9. Types of Cryptography
10. Public Key Cryptography
11. Security goals & Its Implementations - Authentication & Authorisation
12. Security goals & Its Implementations - Confidentiality
13. Case Study: WhatsApp Attack
14. Programming
15. Final project
16. Conclusion

Classroom:

The screenshot displays the MATLAB R2014a environment. The top menu bar includes HOME, PLOTS, APPS, EDITOR, PUBLISH, and VIEW. The ribbon contains various toolbars for file operations, editing, navigation, breakpoints, and running code. The current folder is 'H:\Instal Softwares\MatLab\bin'. The workspace shows variables: img (3456x184x3 uint8), img1 (3456x184 uint8), img2 (3456x184 double), img3 (3456x184 double), img4 (3549x5245 double), and img5 (3549x5245 uint8). The editor window shows the following code:

```
1 - clear;
2 - clear all;
3 - close all;
4 - img = imread('boston night.JPG');
5 - % Enter your code below
6 - img1=rgb2gray(img);
7 - imshow(img1);
8 - img2=double(img1);
9 - img3=img2.^1.5;
10 - figure
11 - imshow(img3);
12 - img4=imrotate(img3,-1);
13 - figure
14 - imshow(img4);
15 - img5=cast(img4,'uint8');
16 - %imgAdjusted=img(1:3456,1:5184);
```

The Command Window shows the following output:

```
In mytask_2 at 7
Warning: Image is too big to fit on screen; displaying at 13%
> In imuitools\private\initSize at 71
In imshow at 282
In mytask_2 at 11
Warning: Image is too big to fit on screen; displaying at 13%
> In imuitools\private\initSize at 71
In imshow at 282
In mytask_2 at 14
```






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COURSE COMPLETION CERTIFICATE

This Certificate is presented to

ADARI SARVANI



For the successful completion of 4-weeks add-on course on Cyber Security

from Date: 25/11/2020-21/12/2020

Dr. L. Prasanna Kumar
Course Instructor

Dr. Ch Narasimham
Principal

Sri Dadi Ratnakar
Chairman





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COURSE COMPLETION CERTIFICATE

This Certificate is presented to

BORA MOUNIKA



For the successful completion of 4-weeks add-on course on Cyber Security

from Date: 25/11/2020-21/12/2020

Dr. L. Prasanna Kumar
Course Instructor

Dr. Ch Narasimham
Principal

Sri Dadi Ratnakar
Chairman





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This Certificate is presented to

KARRIPELSEA



For the successful completion of 4-weeks add-on course on Cyber Security

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Course Instructor

Dr. Ch Narasimham
Principal

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This Certificate is presented to

MEDISETTI TEJASRI



For the successful completion of 4-weeks add-on course on Cyber Security

from Date: 25/11/2020-21/12/2020

Dr. L. Prasanna Kumar
Course Instructor

Dr. Ch Narasimham
Principal

Sri Dadi Ratnakar
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COURSE COMPLETION CERTIFICATE

This Certificate is presented to

THOTA SANDHEEP



For the successful completion of 4-weeks add-on course on Cyber Security

from Date: 25/11/2020-21/12/2020

Dr. L. Prasanna Kumar
Course Instructor

Dr. Ch Narasimham
Principal

Sri Dadi Ratnakar
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STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

Title of the Activity: Cyber Security

Date/Duration: 25-11-2020 to 21-12-2020 Instructor/Coordinator: Dr. P. Prabhana Kumar

- | | | | | | |
|---|---|---|------------------------------------|------------------------------------|-------------------------|
| 1. The content was as described in Publicity Material | 1 | 2 | <input checked="" type="radio"/> 3 | 4 | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | <input type="radio"/> 4 | 5 |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | <input type="radio"/> 5 |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | <input checked="" type="radio"/> 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | <input checked="" type="radio"/> 3 | 4 | 5 |

Feedback/Suggestions

learned all topics perfectly.

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program



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Title of the Activity: _____

CYBER SECURITY

Date/Duration: 25-11-2020 to 21-12-2020 Instructor/Coordinator Dr. L. Pansanna Kumar

- | | | | | | |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 |
| 3. I will recommend this course/workshop/program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | 5 |

Feedback Suggestions

Learned all

topics

perfectly.

Please return this form to the Course Instructor/Organizer/Coordinator
at the end of the workshop/add-on course/Training Program

STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

Title of the Activity: Add on course - Cyber Security

Date/Duration: 25/11/20 to 2/12/20 Instructor/Coordinator: Dr. L. Prasanna Kumar

- | | | | | | |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | 5 |

Feedback/Suggestions
→ Satisfactory
Subsequent session

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program

STUDENT FEEDBACK FORM

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Title of the Activity: Add on course - Cyber Security

Date/Duration: 25/11/20 to 2/12/20 Instructor/Coordinator: Dr. L. Prasanna Kumar

- | | | | | | |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | 5 |

Feedback/Suggestions
→ practical Application understood well
good.

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STUDENT FEEDBACK FORM

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Title of the Activity: Add-on course - cyber security

Date/Duration: 25/11/20 to 21/12/20 Instructor/Coordinator: Dr. Prasad Kumar

1. The content was as described in Publicity Material	1	2	3	4	5
2. The program was helpful in practical understanding	1	2	3	4	5
3. I will recommend this course/workshop program to relevant conservators across our campus	1	2	3	4	5
4. The program was well placed within allotted time	1	2	3	4	5
5. The instructor was an effective communicator	1	2	3	4	5

Feedback/Suggestions

It was
nice session.
We need
more courses
like this.

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