

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Report on Five Day Online Faculty Development Program on “Cyber Security”

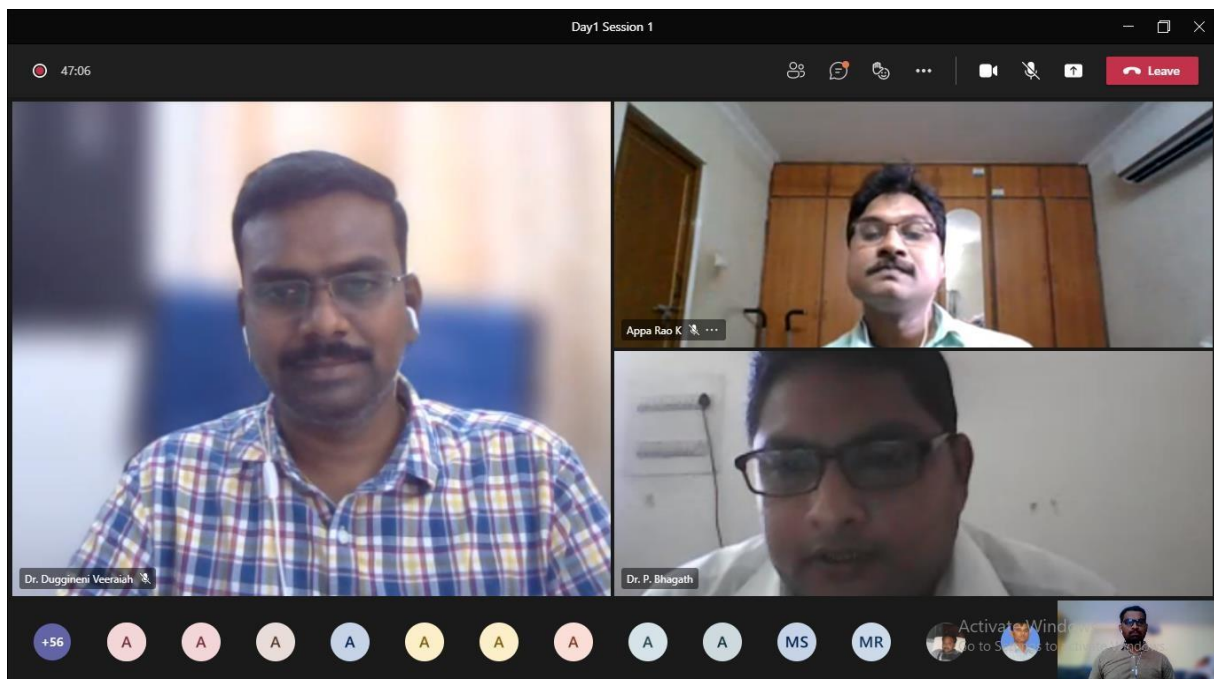
(26th June 2020 – 30th June 2020)

Lakireddy Bali Reddy College of Engineering (A) has organized A Five-Day Online Faculty Development Programme on “Cyber Security” from 26th June 2020 – 30th June 2020. This training program was organized by Department of CSE and have received an overwhelming response with more than 300 registrations. Out of them, we have shortlisted only 150 participants form various prestigious institutes like IITs, NITs and State Universities. Participants constitute a good mixture of Faculty, research scholars and PG students.

Date: 26 /06/2020 Inauguration

FDP was inaugurated on 26/06/2020 by Convener of FDP Dr. D. Veeraiah, Professor and HOD, CSE Department and Dr. K. Appa Rao, principal, L.B.R.C.E has explained the importance of Faculty Development Programs and given his best wishes. Dr. P Lovaraju, Dean of Academic affairs has explained the importance of cyber security in Engineering. Dr.D Jagan Mohan Reddy, Coordinator of the FDP introduced the resource persons Dr. Digambar Pawar, Associate Professor, SCIS, University of Hyderabad, Central University, Hyderabad

Dr.D Jagan Mohan Reddy has provided warm welcome to all the delegates and participants to the FDP. Inhis speech, he has highlighted the main objectives and importance of this Faculty Development Programme. In his Inaugural Speech, Dr. D. Veeraiah, HoD CSE Department gave his insights about Data Science and its Applications. He quoted that cyber security has became the future of data security and every organization is investing a lot for their data and get good insights from data to improve their profits.



*Inauguration Speech by
Dr. K Appa Rao, Principal and Dr. D Veeraiah, HOD, Department of CSE*

Day 1 -- (26/06/2021)

The first session of the FDP is handled by Dr. Digambar Pawar, he has done his Doctoral Degree from SCIS, University of Hyderabad, Central University, Hyderabad.

In this session the speaker has provided a brief introduction about Vulnerabilities, firewalls, and Penetration Testing.

Topics Covered in the Session:

1. Introduction to Cyber Security
2. Basic Networking
3. Basic GNU/LINUX
4. Hands-on



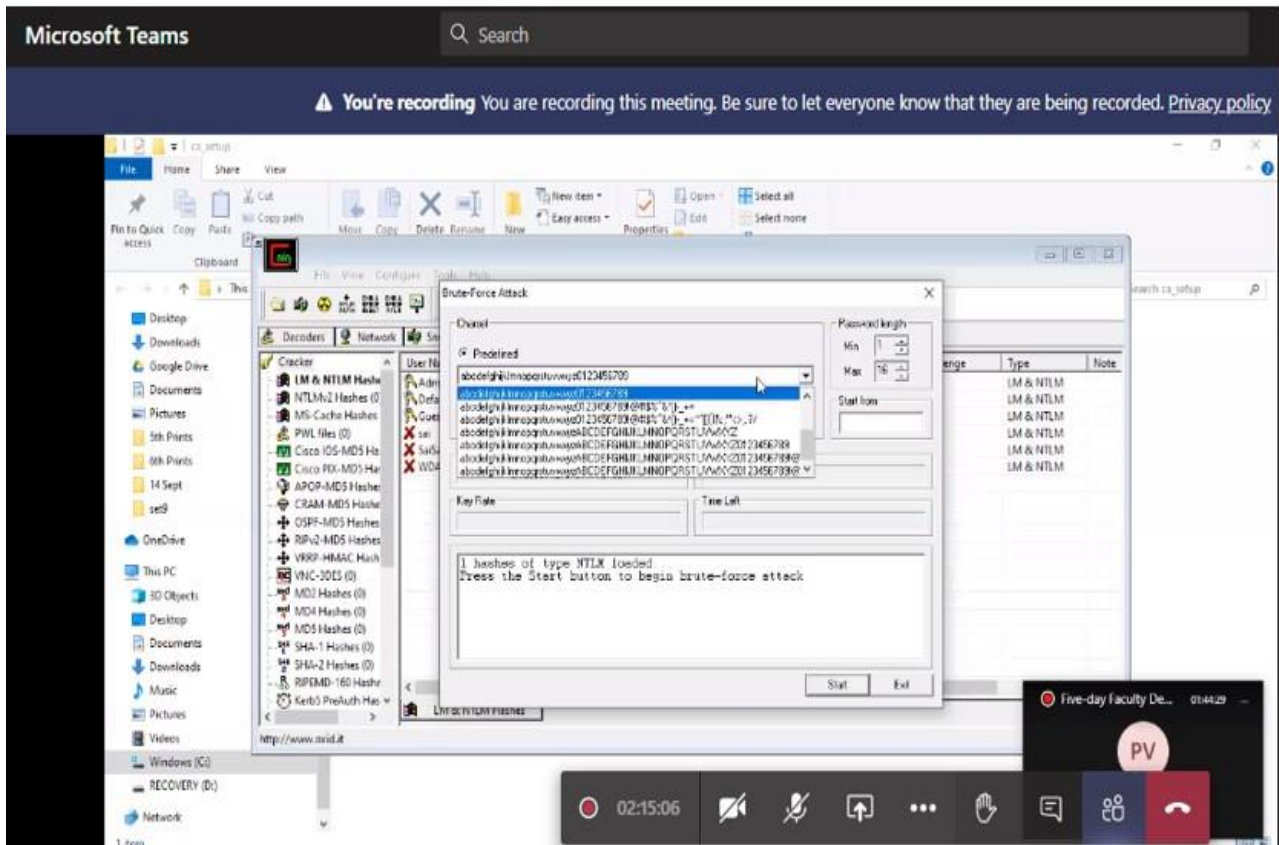
Day1 Session1 Presentation by speaker Dr. Digambar Pawar

Day 2 (27/06/2020)

This session is handled by Dr. Digambar Pawar. The speaker discussed about Monitoring Tools like Wireshark, nmap, Snort etc.

Topics Covered in the Session

1. Wireshark
2. Nmap
3. snort
4. Mimecast
5. Hands-On



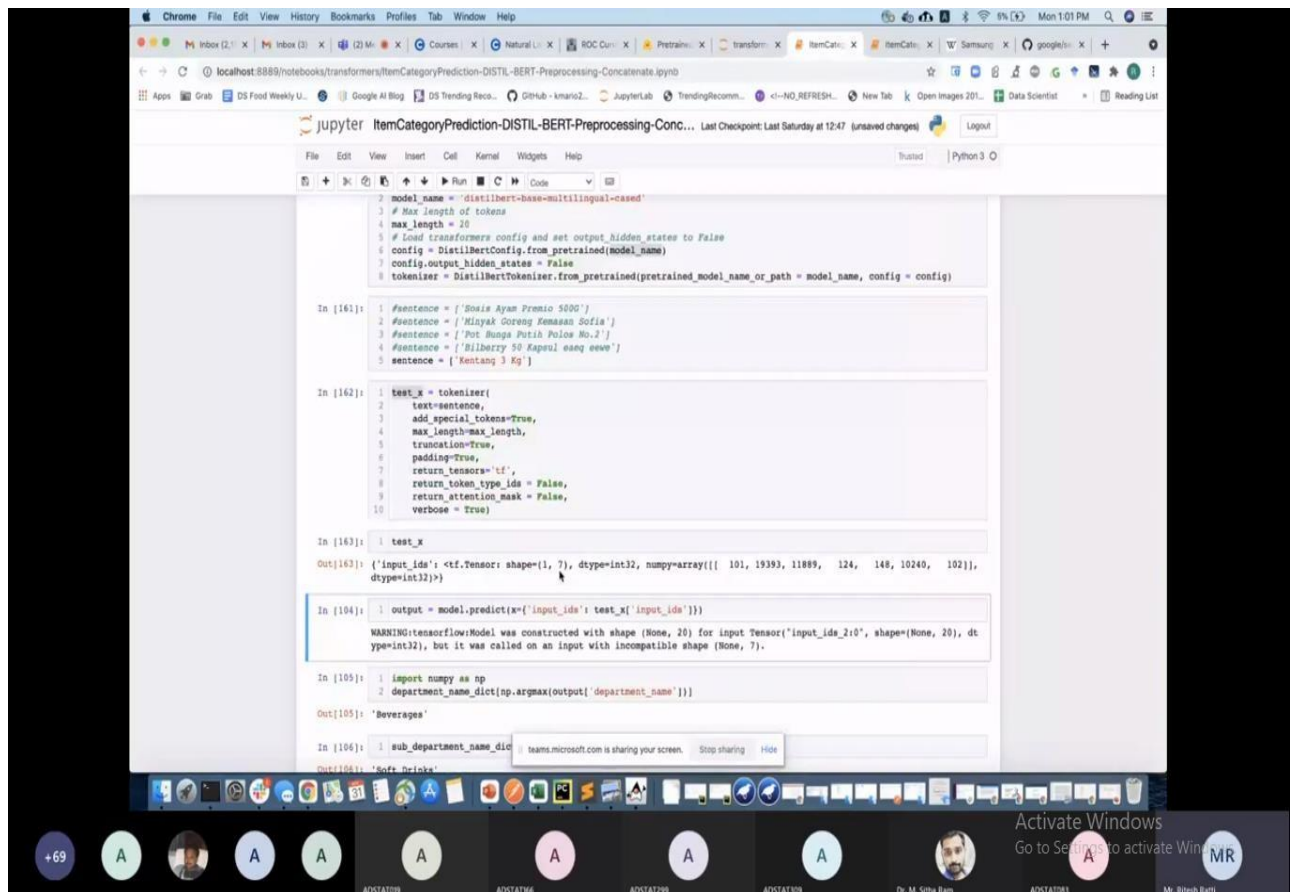
Day2 Session1 Presentation by speaker Dr. Digambar Pawar

Day 3 (28/6/2020)

This session is handled by Dr.D Jagan Mohan Reddy. The speaker started the session with Intrusion Detection techniques, Classification of IDS, Detection methods of IDS, Comparison of IDS with Firewalls. Finally the session completed with demo on Intrusion Techniques.

Topics Covered in the Session

1. Intrusion Detection in Depth
2. IDS Methods
3. IDS with Firewalls



```
2 model_name = 'distilbert-base-multilingual-cased'
3 # Max length of tokens
4 max_length = 20
5 # Load transformers config and set output_hidden_states to False
6 config = DistilBertConfig.from_pretrained(model_name)
7 config.output_hidden_states = False
8 tokenizer = DistilBertTokenizer.from_pretrained(pretrained_model_name_or_path = model_name, config = config)

In [161]: 1 #sentence = ['Sosis Ayan Premio 5000']
2 #sentence = ['Miyak Gorong Kemasa Sofia']
3 #sentence = ['Pot Bunga Putih Polos No.2']
4 #sentence = ['Hilberry 50 Kapul esq sewe']
5 sentence = ['Kentang 3 Kg']

In [162]: 1 test_x = tokenizer(
2     text=sentence,
3     add_special_tokens=True,
4     max_length=max_length,
5     truncation=True,
6     padding=True,
7     return_tensors='tf',
8     return_token_ids = False,
9     return_attention_mask = False,
10    verbose = True)

In [163]: 1 test_x
Out[163]: ('input_ids': <tf.Tensor: shape=(1, 7), dtype=int32, numpy=array([[ 101, 19393, 11889, 124, 148, 10240, 102]], dtype=int32)...)

In [104]: 1 output = model.predict(x={'input_ids': test_x['input_ids']})
WARNING:tensorflow:Model was constructed with shape (None, 20) for input Tensor("input_ids_2:0", shape=(None, 20), dtype=int32), but it was called on an input with incompatible shape (None, 7).

In [105]: 1 import numpy as np
2     department_name_dict[np.argmax(output['department_name'])]
Out[105]: 'Beverages'

In [166]: 1 sub_department_name_dict = teams.microsoft.com is sharing your screen. Stop sharing Hide
Out[166]: 'Soft Drinks'
```

Day3 Presentation by speaker Dr.D Jagan Mohan Reddy

Day 4 (29/6/2020)

This session is taken by Dr. D Jagan Mohan Reddy. The session started with Digital Forensics and its applications and Branches of Digital Forensics. Finally Demo on Digital Forensics

Topics Covered in the session

1. Levels in Digital Forensics
2. Branches in Digital Forensics
3. Techniques

Day 5 (30/6/2020)

Topic: Digital Forensics Continued with Demo

Valedictory Session

On the Valedictory Session, Dr. D. Veeraiah, Professor and HOD, CSE Department and Convener of FDP joined the session as a Chief Guest along with the resource persons Dr. Digambar Pawar, Dr.D Jagan Mohan Reddy and Coordinators of FDP Mr G Balu Narasimha Rao, Sr. Assistant Professor, Mr N Srinivasa Rao, Assistant Professor, CSE Department.

Dr. D. Veeraiah, Professor and HOD, CSE Department, in his valedictory addressing, thanked every participant for spending their valuable time and attending 5 day FDP. Also congratulated the Program coordinators Dr.D Jagan Mohan Reddy and co-coordinators Mr G Balu Narasimha Rao, Mr N Srinivasa Rao for organizing the FDP in a successful manner.

Further, he appreciated all the Teaching and Non-Teaching Staff Members of CSE Department for promoting such kind of programme for the faculties who attended from all over India. At the end of the valedictory session, vote of thanks was given by Mr G Balu Narasimha Rao, Co-Coordinator of the FDP in which he has been paid his gratitude towards all the participants who have spared their valuable time for attending this FDP. He also expressed the gratitude to the Resource Persons, Dr. Digambar Pawar and Dr. D Jagan Mohan Reddy for giving their valuable time for our participants and sharing their knowledge to them.

Nevertheless, he expressed his sincere thanks to Sri. G. Srinivasa Reddy, President, Dr. K. Appa Rao Principal and Dr. D. Veeraiah, HOD, CSE Department.

“We are highly thankful to the Management, Principal and Head of the Department for giving us an opportunity to organize this FDP in our campus and hope we will find the support in future also for organizing such kind of activities.”



Coordinator
(Dr. D Jagan Mohan Reddy)



Convener
(Dr. D. Veeraiah)



Principal
(Dr. K. Appa Rao)