

**Dr. Ambedkar Institute of Technology**  
**Department of Electronics & Telecommunication Engineering**

The enclosed documents are verified and approved.

*S. S. T.*  
for HoD H. O. D  
Dept. of Electronics & Telecommunication Engg.  
Dr. Ambedkar Institute of Technology  
Bengaluru-560 056

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Bengaluru-560 056



**DR. AMBEDKAR INSTITUTE OF TECHNOLOGY**

BDA Outer ring road, Mallathalli, Bengaluru-56



**TEQIP  
Assisted Training  
on Future Skill  
Technologies**

# **CYBER SECURITY**

**Certification by:  
NASSCOM**

**Start From: 20 July 2020**

**Duration: 2 Months**

**Course Type: Online  
Webinar**

**Scan  
and Register**



Post training assessment  
and certification shall be  
conducted through  
**SSC NASSCOM**

### Course Contents

- Fundamentals of Computer Networks
- Network Layers, Protocols
- Cyber Security Vulnerabilities
- Cryptography, Firewalls and Malware
- Cyber Security management
- Web Services and Cyber Laws

### Course Objectives

- To impart necessary knowledge to establish a solid understanding of the Cyber Security environment
- To provide opportunities of academic pursuits to students to improve their knowledge as a life-long activity

**TEQIP-3**

Chief Convener

Dr. C Nanjundaswamy  
Principal, Dr. AIT, Bangalore.

Convener

Dr. Mahalinga V Mandi  
Dean (Planning and Development) and  
TEQIP-III Coordinator, Dr. AIT.

Course Facilitator and Coordinator

Dr. Yamuna Devi, Asso. Prof./HOD, TE., Dr. AIT. 9886716525

Dr. Mary Cherian, Prof. CSE., Dr. AIT. 9986885560

Ms. Nithyashree S, Asst. Prof. ECE., Dr. AIT. 812396980

Ms. Spoorthi P A, Asst. Prof. ECE., Dr. AIT. 9035286400

Mr. Sujay S N, Asst. Prof. ECE., Dr. AIT. 9886991995

Course Outcomes

- Demonstrate understanding of basic networking and network security concepts needed for cyber security.
- Apply the cyber security knowledge to build models to prevent cyber attacks.
- Build an understanding of cyber laws and cyber security management.

Scan  
and Register



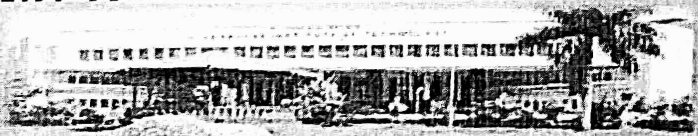
<https://forms.gle/yo5fn3mg3bHGDXMGA>

Registration Fee:

✓ FREE for students of Dr. AIT.

Who can participate?

✓ Students from any branch of Engineering  
can participate in the course



## Dr. Ambedkar Institute of Technology

Details of Registered Students for Cyber Security Course

### Course: Cyber Security

Sl.No	Email	NAME	USN	DEPARTMENT	SEMESTER	COTACT NO.	GENDER	DATE OF BIRTH
1	aditya.monika55@gmail.com	Aditya Tiwari	1DA17IS002	Information Science Engineering	BE 6th sem	9108596165	Male	5/5/1999
2	akshayakumar1811@gmail.com	Akshaya K	1DA17CS010	Computer Science Engineering	BE 6th sem	8310103993	Female	8/24/1999
3	mayuraamogha19@dr-ait.org	Amogha S	1DA17CS013	Computer Science Engineering	BE 6th sem	8951338715	Male	3/1/1999
4	anagha.melepat@gmail.com	Anagha Ajoykumar	1DA17CS014	Computer Science Engineering	BE 6th sem	8277095695	Female	9/20/1999
5	anandanagha2@gmail.com	Anagha Anand	1DA17EC011	Electronics and Communication Engineering	BE 6th sem	8073643214	Female	9/1/1999
6	anupama1202@gmail.com	ANUPAMA A S	1DA18CS019	Computer Science Engineering	BE 4th sem	9380688630	Female	2/12/2000
7	anushamg511@gmail.com	Anusha.M.G	1DA19CS016	Computer Science Engineering	BE 2nd Sem	8971454195	Female	1/5/2001
8	chaithanyaju@gmail.com	Chaithanya J Umashankar	1DA19IS007	Information Science Engineering	BE 2nd Sem	9591185729	Female	9/6/2001
9	chandanak157@gmail.com	Chandana K	1DA17CS034	Computer Science Engineering	BE 6th sem	9.1866E+11	Female	4/15/1999
10	srujangowda66@gmail.com	D M SRUJAN GOWDA	1DA17EC137	Electronics and Communication Engineering	BE 6th sem	6362881850	Male	5/10/1999
11	darshancr58@gmail.com	Darshan C R	1DA18EC410	Electronics and Communication Engineering	BE 6th sem	9964182058 (or) 7676656210	Male	3/2/2000
12	darshithsuresh2001@gmail.com	Darshith.S	1DA19IS010	Information Science Engineering	BE 2nd Sem	7349546760	Male	10/31/2001
13	deepaksr.dsr@gmail.com	Deepak S R	1DA18CS044	Computer Science Engineering	BE 4th Sem	9535577222	Male	4/24/2000
14	surendrasindhu7@gmail.com	JAYAM SURENDRA SINDHU	1DA17CS058	Computer Science Engineering	BE 6th sem	9182766754	Female	7/23/2000
15	kartikkorhalle25@gmail.com	Kartik	1DA18CS062	Computer Science Engineering	BE 4th Sem	8296160890	Male	11/25/2000
16	kavitaprabhu1999@gmail.com	Kavita Nagaraj Prabhu	1DA18TE015	Telecommunication Engineering	BE 4th Sem	9986242310	Female	9/1/1999
17	Kavyatejas1997@gmail.com	KAVYA H C	1DA18EC415	Electronics and Communication Engineering	BE 6th sem	9108298422	Female	6/1/1997
18	kavyapn789@gmail.com	Kavya PN	1DA18EC416	Electronics and Communication Engineering	BE 6th sem	9483685748	Female	8/8/1999
19	kavyav864@gmail.com	Kavya. V	1DA19IS016	Information Science Engineering	BE 2nd Sem	7259632847	Female	11/16/2000
20	kirankumarbm007@gmail.com	Kirankumar B M	1da18ec417	Electronics and Communication Engineering	BE 6th sem	9663647570	Male	10/23/1999
21	lavanya.venkatesh1999@gmail.com	Lavanya V	1DA18CS413	Computer Science Engineering	BE 6th sem	8050248210	Female	6/10/1999
22	mlokesha2@gmail.com	Lokesha	1DA19EI407	Electronics and Instrumentation Engineering	BE 4th Sem	8151809213	Male	6/11/1999
23	manojgowdago@gmail.com	Manoj R	1DA17EC076	Electronics and Communication Engineering	BE 6th sem	9035225281	Male	5/22/1999
24	muskansultanamussu2006@gmail.com	Muskan sultana	1DA19IS022	Information Science Engineering	BE 2nd Sem	9741763715	Female	6/20/2001
25	medhinisampemane@gmail.com	Medhini Sampemane	1DA19IS021	Information Science Engineering	BE 2nd Sem	9108850764	Female	12/15/2000
26	namitharao1999@gmail.com	Namitha Rao	1DA17CS089	Computer Science Engineering	BE 6th sem	8317356957	Female	7/3/1999
27	niki24111999@gmail.com	Nikita Ashok Shet	1DA17CS095	Computer Science Engineering	BE 6th sem	9113568498	Male	10/30/2000
28	paavanikomarla@dr-ait.org	Paavani Komarla	1DA17CS103	Computer Science Engineering	BE 6th sem	8861659494	Female	9/11/1999
29	poojabanavaras123@gmail.com	Pooja BS	1DA17CS108	Computer Science Engineering	BE 6th sem	9513025727	Female	12/26/1999
30	poojahamsa99@gmail.com	Pooja yadav P N	1DA18EC429	Electronics and Communication Engineering	BE 6th sem	7349456068	Female	12/30/1999
31	poojit.chowdry@gmail.com	Poojit Chowdry	1DA17CS110	Computer Science Engineering	BE 6th sem	9910043651	Male	11/5/1998

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33	pkohli515@gmail.com	PRASHANT	1DA18EC432	Electronics and Communication Engineering	BE 6th sem	7353666871	Male	12/1/1997
34	raj476ec@gmail.com	Prashanth Raj C S	1da18ec433	Electronics and Communication Engineering	BE 6th sem	8496011255	Male	6/21/1999
35	pratheepkumarnm26@gmail.com	PRATHEEPKUMAR NM	1DA18EC434	Electronics and Communication Engineering	BE 6th sem	9019699325	Male	9/22/1999
36	happysaint85@gmail.com	Pratik Sharma	1DA17CS117	Computer Science Engineering	BE 6th sem	8073413373	Male	2/23/2000
37	preranavshetty27@gmail.com	PRERANA V	1DA19IS025	Information Science Engineering	BE 2nd Sem	9986499325	Female	6/27/2001
38	prithvibadekkila1@gmail.com	Prithvi B	1DA17EC102	Electronics and Communication Engineering	BE 6th sem	9741017811	Male	8/28/1999
39	rajrajalakshmi39@gmail.com	Rajalakshmi N N	1DA19CS119	Computer Science Engineering	BE 2nd Sem	8884628299	Female	12/1/2002
40	rakshahande@gmail.com	Raksha S Hande	1DA17CS131	Computer Science Engineering	BE 6th sem	9481659342	Female	10/12/1998
41	rakshithkumar13sept@gmail.com	RAKSHITH J	1DA17EC113	Electronics and Communication Engineering	BE 6th sem	9483449164	Male	9/13/1999
42	rashmimn42@gmail.com	Rashmi MN	1DA19IS030	Information Science Engineering	BE 2nd Sem	9483605430	Female	10/30/2000
43	raochreshma@gmail.com	RESHMA RAO C H	1DA19IS031	Information Science Engineering	BE 2nd Sem	7022459486	Female	9/22/2001
44	roopashree7839@gmail.com	Roopashree B R	1DA17EC117	Electronics and Communication Engineering	BE 6th sem	9113895158	Female	8/4/1999
45	iamsachi10@gmail.com	SACHIN B	1DA18EC438	Electronics and Communication Engineering	BE 6th sem	9535332975	Male	3/18/1999
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49	shashank09111999@gmail.com	SHASHANK B	1DA17EC126	Electronics and Communication Engineering	BE 6th sem	8971628295	Male	11/9/1999
50	shashankbbaragur@gmail.com	Shashank b baragur	1DA17EC127	Electronics and Communication Engineering	BE 6th sem	7411715223	Male	5/25/1999
51	shashibgs64@gmail.com	Shashi Kumar S	1DA18EC442	Electronics and Communication Engineering	BE 6th sem	9738614662	Male	3/3/2000
52	shravyamsgowda@gmail.com	Shravya MS	1DA17CS201	Computer Science and Engineering	BE 6th sem	9206561525	Female	11/14/1999
53	176shrusti@gmail.com	SHRUSTI	1DA17CS160	Computer Science Engineering	BE 6th sem	7892799708	Female	6/17/1999
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55	srikanthrv1999@gmail.com	Srikanth R V	1DA17EC162	Electronics and Communication Engineering	BE 6th sem	8618486135	Male	4/16/1999
56	srinivasindian123@gmail.com	SRINIVAS BS	1DA17CS169	Computer Science Engineering	BE 6th sem	6360441761	Male	11/5/1999
57	suhassr27@gmail.com	SUHAS S R	1DA17CS173	Computer Science Engineering	BE 6th sem	8618757287		
58	suma@dr-ait.org	Suma M N	1DA17CS175	Computer Science Engineering	BE 6th sem	7892468341	Female	5/31/2000
59	supriitha.m.bhatt1999@gmail.com	Supriitha M Bhatt	1DA17CS177	Computer Science Engineering	BE 6th sem	8105447454	Female	6/13/1999
60	ksuraj626@gmail.com	Suraj S	1DA19IS048	Information Science Engineering	BE 2nd Sem	9844722941	Male	5/18/2001
61	vidhee6@gmail.com	Vidhee L Gujarati	1DA17EC150	Electronics and Communication Engineering	BE 6th sem	6360862259	Female	8/6/1999
62	kalasavijayalakshmi3677@gmail.com	Vijayalakshmi_kalasa	1DA19IS054	Information Science Engineering	BE 2nd Sem	8317360584	Female	3/20/2000
63	devadigavinutha14@gmail.com	VINUTHA VISHWANATHA DEVADIGA	1DA17CS193	Computer Science Engineering	BE 6th sem	9148670224	Female	8/25/1999

64	amyashasjawali@dr-ait.org	YASHAS JAWALI A M	1DA17CS196	Computer Science Engineering	BE 6th sem			
65	yashaswinikitty@gmail.com	YASHASWINI M K	1DA17CS198	Computer Science Engineering	BE 6th sem	9964640716	Male	2/1/2000
66	yatish100000@gmail.com	YATISH A	1DA17EC161	Electronics and Communication Engineering	BE 6th sem	9480940147	Female	9/18/1999
67	yogeshagowda17575@gmail.com	Yogesh A Gowda	1DA19IS057	Information Science Engineering	BE 2nd Sem	9663310669	Male	5/4/1999
						8317483107	Male	9/1/2001

**Future Skills Training**

**On**

**CYBER SECURITY**

**SCHEDULE**

**From 22.07.2020 to 07.09.2020**

<b>Date</b>	<b>Time</b>	<b>Sessions</b>	<b>Topic</b>	<b>Trainer</b>
<b>DAY 1</b>				
22-07-2020 Wednesday	3.00 PM - 4.00 PM	Session 1	Inauguration and Introduction	Principal
<b>DAY 2</b>				
23-07-2020 Thursday	11.00 AM- 12.00 PM	Session 2	<b>Fundamentals of Computer Networks</b> :Basic concepts of computer networks, network models, OSI	MC
	12.00 PM- 1 PM	Session 3		
<b>DAY 3</b>				
24-07-2020 Friday	11.00 AM- 12.00 PM	Session 4	TCP/IP, Layered architecture	MC
	12.00 PM- 1 PM	Session 5	Client Server architecture, Peer-to-Peer Architecture.	
<b>DAY 4</b>				
25-07-2020 Saturday	11.00 AM- 12.00 PM	Session 6	<b>Application Layer:</b> Working of WWW, E-Mail.	YCR
	12.00 PM- 1 PM	Session 7		

DAY 5				
27-07-2020 Monday	11.00 AM- 12.00 PM	Session 8	Working of TELNET, FTP, DNS And Secure Shell.	YCR
	12.00 PM- 1 PM	Session 9		
DAY 6				
28-07-2020 Tuesday	11.00 AM- 12.00 PM	Session 10	Working of Bit Torrent, and some other applications.	NS
	12.00 PM- 1 PM	Session 11	Architecture of E-Mail system, TELNET, DNS and WWW.	
DAY 7				
29-07-2020 Wednesday	11.00 AM- 12.00 PM	Session 12	<b>Network Layer:</b> Basic services used and provided by Physical Layer, Data link layer.	NS
	12.00 PM- 1 PM	Session 13		
DAY 8				
30-07-2020 Thursday	11.00 AM- 12.00 PM	Session 14	Basic services used and provided by network layer, transport layer, application layer.	SNS
	12.00 PM- 1 PM	Session 15		
DAY 9				
31-07-2020 Friday	11.00 AM- 12.00 PM	Session 16	Types of devices constituting a network.	SNS
	12.00 PM- 1 PM	Session 17	Concept of Internet Service Providers (ISPs) and overall conceptual view of the Internet.	
DAY 10				
01-08-2020 Saturday	11.00 AM- 12.00 PM	Session 18	Routing fundamentals. Different types of networks such as LAN, WAN, VPN, etc.	ASP
	12.00 PM- 1 PM	Session 19		
DAY 11				
03-08-2020 Monday	11.00 AM- 12.00 PM	Session 20	<b>Essential for understanding cyber security:</b> Cyber Security Concepts, Essential Terminologies.	ASP
	12.00 PM- 1 PM	Session 21		



DAY 12				
04-08-2020	11.00 AM- 12.00 PM	Session 22	Understanding meaning and differences in various terms such as Breaches, Threats, Attacks, Exploits, and others	MC
Tuesday	12.00 PM- 1 PM	Session 23		
DAY 13				
05-08-2020	11.00 AM- 12.00 PM	Session 24	<b>Protocols and Cyber Security Vulnerabilities:</b> Hyper Text Transfer Protocol (HTTP) and corresponding cyber security vulnerabilities. Various security attacks related to HTTP.	MC
Wednesday	12.00 PM- 1 PM	Session 25		
DAY 14				
06-08-2020	11.00 AM- 12.00 PM	Session 26	TCP, UDP, MAC.	YCR
Thursday	12.00 PM- 1 PM	Session 27		
DAY 15				
07-08-2020	11.00 AM- 12.00 PM	Session 28	IPv4, IPv6	YCR
Friday	12.00 PM- 1 PM	Session 29		
DAY 16				
08-08-2020	11.00 AM- 12.00 PM	Session 30	How to do sub netting, benefits of DHCP, and other related topics.	NS
Saturday	12.00 PM- 1 PM	Session 31		
DAY 17				
10-08-2020	11.00 AM- 12.00 PM	Session 32	<b>Information Security and Cryptography:</b> Various concepts of Cryptography. Symmetric key and Asymmetric key Cryptography.	NS
Monday	12.00 PM- 1 PM	Session 33		
DAY 18				
11-08-2020	11.00 AM- 12.00 PM	Session 34	Digital Signatures. Applications of Cryptography.	SNS
Tuesday	12.00 PM- 1 PM	Session 35		

DAY 19				
12-08-2020	11.00 AM- 12.00 PM	Session 36	OpenSSL. Hash Values Calculations MD5.	SNS
Wednesday	12.00 PM- 1 PM	Session 37		
DAY 20				
13-08-2020	11.00 AM- 12.00 PM	Session 38	SHA. Steganography.	ASP
Thursday	12.00 PM- 1 PM	Session 39		
DAY 21				
14-08-2020	11.00 AM- 12.00 PM	Session 40	<b>Firewalls:</b> Definition, Types of Firewalls, VPN Security. Security Protocols.	ASP
Friday	12.00 PM- 1 PM	Session 41		
DAY 22				
15-08-2020	11.00 AM- 12.00 PM	Session 42	Security at the Application Layer- PGP, S/MIME.	MC
Saturday	12.00 PM- 1 PM	Session 43		
DAY 23				
17-08-2020	11.00 AM- 12.00 PM	Session 44	Security at Transport Layer- SSL and TLS, Security at Network Layer-IPsec.	MC
Monday	12.00 PM- 1 PM	Session 45		
DAY 24				
18-08-2020	11.00 AM- 12.00 PM	Session 46	<b>System and Server Security:</b> DOS/ DDOS attacks. Introduction to System Security, Server Security.	YCR
Tuesday	12.00 PM- 1 PM	Session 47		
DAY 25				
19-08-2020	11.00 AM- 12.00 PM	Session 48	OS Security, Physical Security. Network packet Sniffing, Network Design Simulation.	YCR
Wednesday	12.00 PM- 1 PM	Session 49		

<b>DAY 26</b>				
20-08-2020	11.00 AM- 12.00 PM	Session 50	Various concepts of system and server security. Intrusion detection and prevention.	NS
Thursday	12.00 PM- 1 PM	Session 51		
<b>DAY 27</b>				
21-08-2020	11.00 AM- 12.00 PM	Session 52	Internet and cloud security. Cyber security vulnerabilities, safeguards	NS
Friday	12.00 PM- 1 PM	Session 53		
<b>DAY 28</b>				
22-08-2020	11.00 AM- 12.00 PM	Session 54	<b>Malware Concepts:</b> Basics of Malware and its types - Virus, Worms.	SNS
Saturday	12.00 PM- 1 PM	Session 55		
<b>DAY 29</b>				
24-08-2020	11.00 AM- 12.00 PM	Session 56	Malware types -Spywares, Ransom wares. Malware Analysis.	SNS
Monday	12.00 PM- 1 PM	Session 57		
<b>DAY 30</b>				
25-08-2020	11.00 AM- 12.00 PM	Session 58	Anti-virus protection. Malware Analysis using machine learning,	ASP
Tuesday	12.00 PM- 1 PM	Session 59		
<b>DAY 31</b>				
26-08-2020	11.00 AM- 12.00 PM	Session 60	<b>Web Services and Cyber Laws: Basics</b> of Web Services, SOAP, REST.	ASP
Wednesday	12.00 PM- 1 PM	Session 61		
<b>DAY 32</b>				
27-08-2020	11.00 AM- 12.00 PM	Session 62	Cyber laws and forensics, Cyber security regulations	MC
Thursday	12.00 PM- 1 PM	Session 63		

<b>DAY 33</b>				
28-08-2020	11.00 AM- 12.00 PM	Session 64	Role of design patterns. Software intensive systems.	MC
Friday	12.00 PM- 1 PM	Session 65		
<b>DAY 34</b>				
29-08-2020	11.00 AM- 12.00 PM	Session 66	<b>Cyber Security and Machine Learning:</b> Regression, Clustering, classification.	YCR
Saturday	12.00 PM- 1 PM	Session 67		
<b>DAY 35</b>				
31-08-2020	11.00 AM- 12.00 PM	Session 68	Association rule of learning, dimensionality reduction. Generative models, supervised, unsupervised.	YCR
Monday	12.00 PM- 1 PM	Session 69		
<b>DAY 36</b>				
01-09-2020	11.00 AM- 12.00 PM	Session 70	Semi-supervised, Reinforcement learning. Dimensionality reduction, generative models.	NS
Tuesday	12.00 PM- 1 PM	Session 71		
<b>DAY 37</b>				
02-09-2020	11.00 AM- 12.00 PM	Session 72	Cyber security Tasks and Machine Learning: prediction; prevention; detection; response; monitoring. (Network (network traffic analysis and intrusion detection); endpoint (anti-malware); application (WAF or database firewalls); user (UBA); process (anti-fraud). Security Check: in transit in real time; at rest; historically; etc.	NS
Wednesday	12.00 PM- 1 PM	Session 73		
<b>DAY 38</b>				
03-09-2020	11.00 AM- 12.00 PM	Session 74	Examples: Network Protection (regression, classification, clustering etc.); Endpoint Protection: classification for malware, spyware and ransomware; clustering for malware protection on secure email gateways (e.g., to separate legal file attachments from outliers); Application Security; User Behaviour; Process Behaviour	SNS
Thursday	12.00 PM- 1 PM	Session 75		

<b>DAY 39</b>				
04-09-2020	11.00 AM- 12.00 PM	Session 76	<b>Cyber Security and Recent Technologies:</b> Security aspects in IoT.	SNS
Friday	12.00 PM- 1 PM	Session 77		
<b>DAY 40</b>				
05-09-2020	11.00 AM- 12.00 PM	Session 78	Cloud Computing and Image/video data. Biometrics.	ASP
Saturday	12.00 PM- 1 PM	Session 79		
<b>DAY 41</b>				
07-09-2020	11.00 AM- 12.00 PM	Session 80	Mobile Computing and Hardening on android and iOS. Security, Android Malware Analysis.	ASP
Monday	12.00 PM- 1 PM	Session 81		
07-09-2020	1.00 PM- 1.30 PM	Session 81	<b>Feedback Session and Valedictory</b>	Coordinators
<b>20 Practical Sessions will be conducted during 20-08-2020 to 30-9-2020</b>				

Date	Time	Sessions	Topic	Trainer
<b>DAY 1</b>				
20-07-2020 Monday	10.30 AM -11.30 AM	Session 1	Inauguration and Introduction	Principal and HOD
	11.30 AM -12.30 PM			

DAY 2				
21-07-2020 Tuesday	11.00 AM- 12.00 PM	Session 2	<b>Fundamentals of Computer Networks</b> :Basic concepts of computer networks, network models, OSI	MC
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	12.00 PM- 1 PM	Session 5		
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	12.00 PM- 1 PM	Session 27		
<b>DAY 15</b>				
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	12.00 PM- 1 PM	Session 29		
<b>DAY 16</b>				



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	12.00 PM- 1 PM	Session 31		
<b>DAY 17</b>				
08-08-2020 Saturday	11.00 AM- 12.00 PM	Session 32	<b>Information Security and Cryptography:</b> Various concepts of Cryptography. Symmetric key and Asymmetric key Cryptography.	NS
	12.00 PM- 1 PM	Session 33		
<b>DAY 18</b>				
10-08-2020 Monday	11.00 AM- 12.00 PM	Session 34	Digital Signatures. Applications of Cryptography.	SNS
	12.00 PM- 1 PM	Session 35		
<b>DAY 19</b>				
11-08-2020 Tuesday	11.00 AM- 12.00 PM	Session 36	OpenSSL. Hash Values Calculations MD5.	SNS
	12.00 PM- 1 PM	Session 37		
<b>DAY 20</b>				
12-08-2020 Wednesday	11.00 AM- 12.00 PM	Session 38	SHA. Steganography.	ASP
	12.00 PM- 1 PM	Session 39		
<b>DAY 21</b>				
13-08-2020 Thursday	11.00 AM- 12.00 PM	Session 40	<b>Firewalls:</b> Definition, Types of Firewalls, VPN Security. Security Protocols.	ASP
	12.00 PM- 1 PM	Session 41		
<b>DAY 22</b>				
14-08-2020 Friday	11.00 AM- 12.00 PM	Session 42	Security at the Application Layer- PGP, S/MIME.	MC
	12.00 PM- 1 PM	Session 43		
<b>DAY 23</b>				
15-08-2020 Saturday	11.00 AM- 12.00 PM	Session 44	Security at Transport Layer- SSL and TLS, Security at Network Layer- IPsec.	MC
	12.00 PM- 1 PM	Session 45		
<b>DAY 24</b>				

17-08-2020 Monday	11.00 AM- 12.00 PM	Session 46	<b>System and Server Security:</b> DOS/ DDOS attacks. Introduction to System Security, Server Security.	YCR
	12.00 PM- 1 PM	Session 47		
<b>DAY 25</b>				
18-08-2020 Tuesday	11.00 AM- 12.00 PM	Session 48	OS Security, Physical Security. Network packet Sniffing, Network Design Simulation.	YCR
	12.00 PM- 1 PM	Session 49		
<b>DAY 26</b>				
19-08-2020 Wednesday	11.00 AM- 12.00 PM	Session 50	Various concepts of system and server security. Intrusion detection and prevention.	NS
	12.00 PM- 1 PM	Session 51		
<b>DAY 27</b>				
20-08-2020 Thursday	11.00 AM- 12.00 PM	Session 52	Internet and cloud security. Cyber security vulnerabilities, safeguards	NS
	12.00 PM- 1 PM	Session 53		
<b>DAY 28</b>				
21-08-2020 Friday	11.00 AM- 12.00 PM	Session 54	<b>Malware Concepts:</b> Basics of Malware and its types - Virus, Worms. Trojans, Rootkits, Robots, Adware's.	SNS
	12.00 PM- 1 PM	Session 55		
<b>DAY 29</b>				
22-08-2020 Saturday	11.00 AM- 12.00 PM	Session 56	Malware types -Spywares, Ransom wares. Malware Analysis.	SNS
	12.00 PM- 1 PM	Session 57		
<b>DAY 30</b>				
24-08-2020 Monday	11.00 AM- 12.00 PM	Session 58	Anti-virus protection. Malware Analysis using machine learning,	ASP
	12.00 PM- 1 PM	Session 59		
<b>DAY 31</b>				
25-08-2020 Tuesday	11.00 AM- 12.00 PM	Session 60	<b>Web Services and Cyber Laws: Basics</b> of Web Services, SOAP, REST.	ASP
	12.00 PM- 1 PM	Session 61		
<b>DAY 32</b>				

26-08-2020 Wednesday	11.00 AM- 12.00 PM	Session 62	Cyber laws and forensics, Cyber security regulations	MC
	12.00 PM- 1 PM	Session 63		
<b>DAY 33</b>				
27-08-2020 Thursday	11.00 AM- 12.00 PM	Session 64	Role of design patterns. Software intensive systems.	MC
	12.00 PM- 1 PM	Session 65		
<b>DAY 34</b>				
28-08-2020 Friday	11.00 AM- 12.00 PM	Session 66	<b>Cyber Security and Machine Learning:</b> Regression, Clustering, classification.	YCR
	12.00 PM- 1 PM	Session 67		
<b>DAY 35</b>				
29-08-2020 Saturday	11.00 AM- 12.00 PM	Session 68	Association rule of learning, dimensionality reduction. Generative models, supervised, unsupervised.	YCR
	12.00 PM- 1 PM	Session 69		
<b>DAY 36</b>				
31-08-2020 Monday	11.00 AM- 12.00 PM	Session 70	Semi-supervised, Reinforcement learning. Dimensionality reduction, generative models.	NS
	12.00 PM- 1 PM	Session 71		
<b>DAY 37</b>				
01-09-2020 Tuesday	11.00 AM- 12.00 PM	Session 72	Cyber security Tasks and Machine Learning: prediction; prevention; detection; response; monitoring. (Network (network traffic analysis and intrusion detection); endpoint (anti-malware); application (WAF or database firewalls); user (UBA); process (anti-fraud). Security Check: in transit in real time; at rest; historically; etc.	NS
	12.00 PM- 1 PM	Session 73		
<b>DAY 38</b>				
02-09-2020 Wednesday	11.00 AM- 12.00 PM	Session 74	Examples: Network Protection (regression, classification, clustering etc.); Endpoint Protection: classification for malware, spyware and ransomware; clustering for malware protection on secure email gateways (e.g., to separate legal file attachments from outliers); Application Security; User Behaviour; Process Behaviour	SNS
	12.00 PM- 1 PM	Session 75		
<b>DAY 39</b>				
03-09-2020 Thursday	11.00 AM- 12.00 PM	Session 76	<b>Cyber Security and Recent Technologies:</b> Security aspects in IoT.	SNS
	12.00 PM- 1 PM	Session 77		

<b>DAY 40</b>				
04-09-2020 Friday	11.00 AM- 12.00 PM	Session 78	Cloud Computing and Image/video data. Biometrics.	ASP
	12.00 PM- 1 PM	Session 79		
<b>DAY 41</b>				
05-09-2020 Saturday	9.30 AM- 10.30AM	Session 80	Mobile Computing and Hardening on android and iOS. Security, Android Malware Analysis.	ASP
	10.30 AM- 11.30AM	Session 81		
<b>DAY 42</b>				
05 -09-2020 Saturday	12.00PM- 1.00 PM	Session 82	Feedback Session and Valedictory	Coordinators
<b>20 Practical Sessions will be conducted during 07-09-2020 to 30-9-2020</b>				

### Trainers

<b>1</b>	<b>Dr.Yamuna Devi (YCR)</b> <b>Associate Professor and Head</b> <b>Dept. of TCE</b> <b>Dr.AIT</b> <b>Bengakuru-56.</b>
<b>2</b>	<b>Dr.Mary Cherian(MC)</b> <b>Professor</b> <b>Dept. of CSE</b> <b>Dr.AIT</b> <b>Bengakuru-56.</b>
<b>3</b>	<b>Ms.Nithyashree S(NS)</b> <b>Assistant Professor</b> <b>Dept. of ECE</b> <b>Dr.AIT</b> <b>Bengakuru-56.</b>

<b>4</b>	<b>Ms.Spoorthi P A.(ASP)</b> <b>Assistant Professor</b> <b>Dept. of ECE</b> <b>Dr.AIT</b> <b>Bengakuru-56.</b>
<b>5</b>	<b>Ms.Sujay S N (SNS)</b> <b>Assistant Professor</b> <b>Dept. of ECE</b> <b>Dr.AIT</b> <b>Bengakuru-56.</b>

## Course: Cyber Security

## Student Attendance

Sl. No.	Student Name	USN	25-07-2020	27-07-2020	06-08-2020
1	Aditya Tiwari	1DA17IS002	1	2	3
2	Akshaya K	1DA17CS010	1	2	3
3	Amogha S	1DA17CS013	1	2	3
4	Anagha Ajoykumar	1DA17CS014	1	2	3
5	Anagha Anand	1DA17EC011	1	2	3
6	ANUPAMA A S	1DA18CS019	1	2	3
7	Anusha.M.G	1DA19CS016	1	2	3
8	Chaithanya J Umashankar	1DA19IS007	1	2	3
9	Chandana K	1DA17CS034	1	2	3
10	D M SRUJAN GOWDA	1DA17EC137	1	2	3
11	Darshan C R	1DA18EC410	1	2	3
12	Darshith.S	1DA19IS010	1	2	3
13	Deepak S R	1DA18CS044	1	2	3
14	JAYAM SURENDRA SINDHU	1DA17CS058	1	2	3
15	Kartik	1DA18CS062	1	2	3
16	Kavita Nagaraj Prabhu	1DA18TE015	1	2	3
17	KAVYA H C	1DA18EC415	1	2	3
18	Kavya PN	1DA18EC416	1	2	3
19	Kavya. V	1DA19IS016	1	2	3
20	Kirankumar B M	1da18ec417	1	2	3
21	Lavanya V	1DA18CS413	1	2	3
22	Lokesha	1DA19EI407	1	2	3
23	Manoj R	1DA17EC076	1	2	3
24	Muskan sultana	1DA19IS022	1	2	3
25	Medhini Sampemane	1DA19IS021	1	2	3
26	Namitha Rao	1DA17CS089	1	2	3
27	Nikita Ashok Shet	1DA17CS095	0	1	2
28	Paavani Komarla	1DA17CS103	1	2	3
29	Pooja BS	1DA17CS108	0	1	2
30	Pooja yadav P N	1DA18EC429	1	2	3
31	Poojit Chowdry	1DA17CS110	1	2	3
32	Prajwal	1DA18TE028	1	2	3
33	PRASHANT	1DA18EC432	1	2	3
34	Prashanth Raj C S	1da18ec433	1	2	3
35	PRATHEEPKUMAR NM	1DA18EC434	1	2	3
36	Pratik Sharma	1DA17CS117	1	2	3
37	PRERANA V	1DA19IS025	1	2	3
38	Prithvi B	1DA17EC102	1	2	3
39	Rajalakshmi N N	1DA19CS119	1	2	3
40	Raksha S Hande	1DA17CS131	1	2	3
41	RAKSHITH J	1DA17EC113	1	2	3

42	Rashmi MN	1DA19IS030	1	2	3
43	RESHMA RAO C H	1DA19IS031	1	2	3
44	Roopashree B R	1DA17EC117	1	2	3
45	SACHIN B	1DA18EC438	1	2	3
46	Sandhya M V	1DA17EC121	1	2	3
47	Sharath kumara H S	1DA18EC441	1	2	3
48	SENTHILANAND P	1DA17CS153	1	2	3
49	SHASHANK B	1DA17EC126	1	2	3
50	Shashank b baragur	1DA17EC127	1	2	3
51	Shashi Kumar S	1DA18EC442	1	2	3
52	Shravya MS	1DA17CS201	1	2	3
53	SHRUSTI	1DA17CS160	1	2	3
54	Shilpa M	1DA17EC129	1	2	3
55	Srikanth R V	1DA17EC162	1	2	3
56	SRINIVAS BS	1DA17CS169	1	2	3
57	SUHAS S R	1DA17CS173	1	2	3
58	Suma M N	1DA17CS175	1	2	3
59	Supritha M Bhatt	1DA17CS177	1	2	3
60	Suraj S	1DA19IS048	1	2	3
61	Vidhee L Gujarati	1DA17EC150	1	2	3
62	Vijaylakshmi_kalasa	1DA19IS054	1	2	3
63	VINUTHA VISHWANATHA DEVADIGA	1DA17CS193	1	2	3
64	YASHAS JAWALI A M	1DA17CS196	1	2	3
65	YASHASWINI M K	1DA17CS198	1	2	3
66	YATISH A	1DA17EC161	1	2	3
67	Yogesh A Gowda	1DA19IS057	1	2	3





