



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 05.09.2021

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value added course on “**Cyber Security Professional**” -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on “**Cyber Security Professional**” in our campus premises on **12/09/2021**.

42 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **CSE Smart Room**

Timing : **9 am to 4.30 pm**

Submitted to Principal for approval to organize this value added course.

HOD/CSE

HEAD OF DEPARTMENT
Department of Computer Sci. & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA

DEAN ENGINEERING



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CIRCULAR

E. Fathima

09.09.2021

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **CYBER SECURITY PROFESSIONAL** for the benefit of II, III and IV year students. This course is scheduled from 12.09.2021 for 30hours which includes theory and practical. The timings are 3:00 PM to 5:00 PM

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	C.Rajabhushanam	Assistant Professor
2	E.Fathima	Assistant Professor

Head of Department

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Department of Computer Science & Engg.,
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To

Copy to CSE

Copy to IT



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CERTIFICATE COURSE ON CYBER SECURITY PROFESSIONAL

Date of Introduction of the Course:12.09.2021

COURSE SYLLABUS

1. INTRODUCTION TO CYBER CRIME

Introduction, Forgery, Hacking, Software Piracy, Computer Network intrusion - Category of Cybercrime – Cybercrime Mobile & Wireless devices - Tools and Methods used in Cybercrime -Phishing & Identity Theft.

2. CYBER LAW

Power of Arrest without Warrant under the IT act, 2000: A Critique - Cyber Crime and Criminal Justice: Penalties, Adjudication and Appeals – Jurisdiction in the cyber world – Battling CyberSquatters and Copyright Protection.

3. E – COMMERCE PROTECTION

E-Commerce taxation – Digital signatures, certifying authorities and E-Governance – Indian Evidence Act – Protection of Cyber Consumers in India.

4. CYBER AND INFORMATION SECURITY POLICY

Cyber governance issues – Cyber user issues – Cyber conflict issues – Cyber management issues – Cyber infrastructures issues.

5. POLICIES AND MANAGEMENT PROCESS

Introduction - Corporate policies - Tier 1, Tier 2 and Tier 3 policies - process management - planning and preparation - developing policies – asset classification policy - developing standards.

6. SECURING CYBERSPACE

The private sector role in securing cyberspace - National governments and their role in securing cyberspace - International law's role in securing cyberspace .

7. CYBER WAR

Privacy, surveillance and the law Cyber War and Strategy - Authentication and Identity - Current legislative and policy initiatives.

8. ORGANIZATIONAL AND HUMAN SECURITY

Organizational and Human Security: Adoption of Information Security Management Standards, Human Factors in Security - Role of information security profession.

9. INFORMATION SECURITY CONCEPTS

Information Security Overview - Information Security Services - Types of Attacks - Goals for Security - E-commerce Security - Computer Forensics - Steganography - Security Engineering.

10. SECURITY THREATS AND VULNERABILITIES

Overview of Security threats - Hacking Techniques - Password Cracking - Insecure - Network connections - Malicious Code - Programming Bugs - Cyber crime and Cyberterrorism - Information Warfare and Surveillance.

11. CRYPTOGRAPHY

Introduction to Cryptography - Symmetric key Cryptography - Asymmetric key - Cryptography - Message Authentication and Hash functions - Digital Signatures - Public Key infrastructure - Diffe-Hellman key exchange protocol - Applications of Cryptography.

12. SECURITY MANAGEMENT PRACTICES

Overview of Security Management - Information Classification Process - Security Policy - Risk Management - Security Procedures and Guidelines - Business Continuity and Disaster Recovery.

13. SECURITY LAWS AND STANDARDS

Security Assurance - Security Laws - International Standards - Security Audit - OCTAVE approach - SSE-CMM.

14. SERVER MANAGEMENT AND CYBER SECURITY FIREWALLS

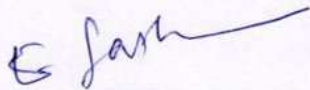
User Management - DNS Routing and Load Balancing - Overview of Firewalls - Types of Firewalls - DMZ and firewall features.

15. SECURITY FOR VPN AND NEXT GENERATION NETWORKS

VPN Security - Security in Multimedia Networks - Fax Security - Link Encryption-
Devices.

COURSE OBJECTIVES:

- Upon completion of this course, the students will be able to
- Explain the basic information on cybercrime.
- Describe cyber laws for various crime activities.
- Identify the security policies for cyber issues.
- Analyze the role of organization for securing cyberspace.
- Explain the need for security in organizations.



COURSE COORDINATOR



HEAD OF THE DEPARTMENT

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CERTIFICATE COURSE ON CYBER SECURITY PROFESSIONAL

Date of Introduction of the Course:12.09.2021

The timings are 3 PM to 5 PM

Time Table& Lesson plan


CLASS	DATE	TOPIC
1,2	12.09.2021	1. INTRODUCTION TO CYBER CRIME Introduction, Forgery, Hacking, Software Piracy, Computer Network intrusion - Category of Cybercrime – Cybercrime Mobile & Wireless devices - Tools and Methods used in Cybercrime -Phishing & Identity Theft.
3,4	16-09-2021(AN)	2. CYBER LAW Power of Arrest without Warrant under the IT act, 2000: A Critique - Cyber Crime and Criminal Justice: Penalties, Adjudication and Appeals – Jurisdiction in the cyber world – Battling CyberSquatters and Copyright Protection.
5,6	17-09-2021(FN)	3. E – COMMERCE PROTECTION E-Commerce taxation – Digital signatures, certifying authorities and E-Governance – Indian Evidence Act – Protection of Cyber Consumers in India.
7,8	17-09-2021(AN)	4. CYBER AND INFORMATION SECURITY POLICY Cyber governance issues – Cyber user issues – Cyber conflict issues – Cyber management issues – Cyber infrastructures issues.

9,10	23-09-2021(AN)	5.POLICIES AND MANAGEMENT PROCESS Introduction - Corporate policies - Tier 1, Tier 2 and Tier3 policies - process management - planning and preparation - developing policies – asset classification policy - developing standards.
11,12	24-06-2021(FN)	6. SECURING CYBERSPACE The private sector role in securing cyberspace - National governments and their role in securing cyberspace - International law's role in securing cyberspace .
13,14	24-09-2021(AN)	7.CYBER WAR Privacy, surveillance and the law Cyber War and Strategy - Authentication and Identity - Current legislative and policy initiatives.
15,16	30-09-2021(AN)	8. ORGANIZATIONAL AND HUMAN SECURITY Organizational and Human Security: Adoption of Information Security Management Standards, Human Factors in Security - Role of information security profession.
17,18	01-10-2021(FN)	9. INFORMATION SECURITY CONCEPTS Information Security Overview - Information Security Services - Types of Attacks - Goals for Security - E-commerce Security - Computer Forensics - Steganography - Security Engineering.
19,20	01-10-2021(AN)	10.SECURITY THREATS AND VULNERABILITIES Overview of Security threats - Hacking Techniques - Password Cracking – Insecure - Network connections - Malicious Code - Programming Bugs - Cyber crime and Cyberterrorism - Information Warfare and Surveillance.
21,22	07-10-2021(AN)	11. CRYPTOGRAPHY Introduction to Cryptography - Symmetric key Cryptography - Asymmetric key – Cryptography - Message Authentication and Hash functions - Digital

		Signatures - Public Key infrastructure - Diffe-Hellman key exchange proptocol - Applications of Cryptography.
23,24	08-10-2021(FN)	12. SECURITY MANAGEMENT PRACTICES Overview of Security Management - Information Classification Process - Security Policy - Risk Management - Security Procedures and Guidelines - Business Continuity and Disaster Recovery.
25,26	08-10-2021(AN)	13.SECURITY LAWS AND STANDARDS Security Assurance - Security Laws - International Standards - Security Audit - OCTAVE approach - SSE-CMM
27,28	14-10-2021(AN)	14.SERVER MANAGEMENT AND CYBER SECURITY FIREWALLS User Management - DNS Routing and Load Balancing - Overview of Firewalls - Types of Firewalls - DMZ and firewall features.
29,30	15-10-2021(FN)	15.SECURITY FOR VPN AND NEXT GENERATION NETWORKS VPN Security - Security in Multimedia Networks - Fax Security - Link Encryption - Devices.



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CERTIFICATE COURSE ON CYBER SECURITY PROFESSIONAL

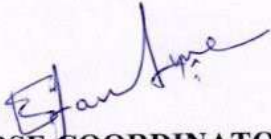
Date of Introduction of the Course: 12.09.2021

School of Computing

Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS033	BOORAGADDA VAMSI KRISHNA
2	U14CS035	BYSANI VENKAT SANDEEP
3	U14CS089	MADIYAL ANJAY
4	U14CS090	MAL REDDY GANESH REDDY
5	U14CS092	MANDELA SAIKIRAN
6	U14CS151	RAVIPATI SUBBARAYUDU
7	U14CS153	RONU SHARMA
8	U14CS155	TAMMINANA SAGAR
9	U14CS157	SAJJA. SURENDRA PRASAD
10	U14CS166	SHAFAN HASIM.N
11	U14CS170	SHANKAR KUMAR GUPTA
12	U14CS178	SK MD TAUQEER
13	U14CS181	SOURABH PRIYADARSHI
14	U14CS185	SURENDAR.K
15	U14CS199	VAMMARVALLI RAJA
16	U14CS207	VIVEK KUMAR
17	U14CS210	YELLALA SANTHOSH REDDY
18	U14CS217	CHILLIMUNTA VENKATESH
19	U15CS144	OMPRAKASH YADAV
20	U15CS147	PALEPU SIVA MANIKANTA CHARI
21	U15CS148	PARTHIBAN S
22	U15CS710	JAYANTHI..S
23	U15CS502	DANIEL BRITTO
24	U15CS194	SHAIK SABIR
25	U15CS196	SHARYARAI.S
26	U15CS197	SHATRUGHAN SUHAN.S
27	U15CS199	SIRI GIRI HAREESH
28	U15CS201	SMITHA C.S
29	U15CS255	ADITYA
30	U15CS701	PRAVEEN RAJ.V
31	U15CS702	GOWTHAMAN.S
32	U16CS025	SANTHOSHKUMAR S
33	U16CS099	GANGUMALLA GANGA SUNIL
34	U16CS101	NITHISHVAR S

35	U16CS109	CHITTALA HARIKA
36	U16CS147	PREM KUMAR MISHRA
37	U16CS152	NALLAPU RAJESH
38	U16CS162	YEMIREDDY SRINIVASA REDDY
39	U16CS169	RAVILLA HARSHITHA
40	U16CS192	GANTLA VASU
41	U16CS197	PRAVEENRAJ R M
42	U16CS210	TANIRU SATISH



COURSE COORDINATOR



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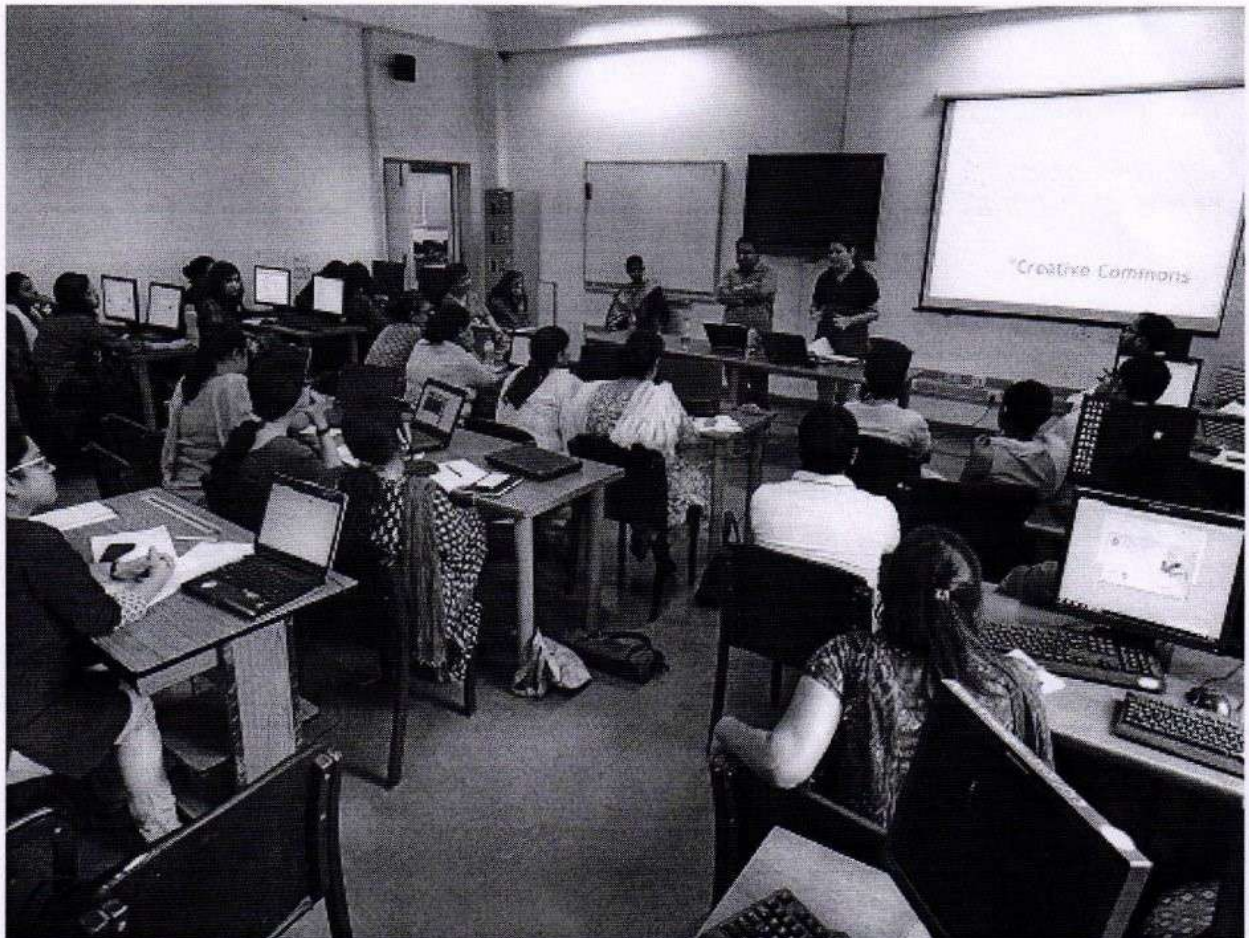


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CERTIFICATE COURSE ON CYBER SECURITY PROFESSIONAL



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CERTIFICATE OF PARTICIPATION

This certificate is presented to

RONU SHARMA (REG NO:U14CS153)

For actively participating in the value added course "CYBER SECURITY PROFESSIONAL"
Conducted by School of Computing, BIHER from 12.09.2021 to 15.10.2021


COURSE COORDINATORS


HEAD OF THE DEPARTMENT


DIRECTOR

COURSE FEEDBACK FORM

*Academic Year		2021 - 2022			
Term		odd sem			
Course Number					
Course Title		Cyber security Professional			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended									
0-20		20-40		40-60	✓	60-80		80-100	

2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6	✓	6-8		8-10	

3. Preparation for the course by the student:	
(i)	Have done part of this course earlier yes
(ii)	Has adequate prior exposure to the prerequisites yes
(iii)	Had to pickup relevant additional topics through concurrent study yes
(iv)	Have no exposure to the background material yes

4. The expectations for taking the course by the student are:	
(a)	Enhance by skill base in the area of specializations yes
(b)	Get exposed to a relevant subject yes
(c)	Curiosity yes
(d)	Better Employment Opportunity yes
(e)	Complete Course requirements yes
(f)	To Improve CGPA yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture			✓		
2.	Comment of the Subject			✓		
3.	Clarity of expression			✓		
4.	Level of preparation			✓		
5.	Level of interaction			✓		
6.	Accessibility outside the class			✓		
7.	Others (please specify)			✓		

A: Excellent	B: Very Good	C: Good	✓	D: Satisfactory	E: Poor
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Course Number					
Course Title		Cyber Security Professional			
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Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

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0-2		2-4		4-6	✓	6-8		8-10
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(d)	Better Employment Opportunity	Yes
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(f)	To Improve CGPA	Yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture			✓		
2.	Comment of the Subject		✓			
3.	Clarity of expression			✓		
4.	Level of preparation			✓		
5.	Level of interaction		✓			
6.	Accessibility outside the class		✓			
7.	Others (please specify)			✓		

A: Excellent		B: Very Good		C: Good	✓	D: Satisfactory		E: Poor
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