



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

Date: 3.01.2020

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

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 And Information Security**” -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 And Information Security**” in our campus premises on **10.01.2020**, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **CSE Smart Room**

Timing : 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&AN).

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

HOD

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research

(Declared as Deemed to be University, U/S 3 of UGC Act, 1956)
Chennai - 600 073 INDIA

DEAN ENGINEERING

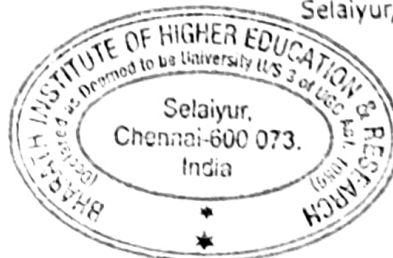
DEAN (Engineering)

Bharath Institute of Science & Technology

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH

(Declared as Deemed to be University U/S 3 of UGC Act. 1956)

Selaiyur, Chennai-600 073.





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.

CIRCULAR

07.01.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Cyber Security And Information Security** for the benefit of students. This course is scheduled from 10.01.2020 to 23.01.2020 which includes theory and practical. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN) and Saturday (FN&AN).

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	Ms. C. Nalini	Professor
2	Mr. B. Sridhar	Assistant Professor

To

Copy to CSE

Copy to IT

Head of Department

HEAD OF DEPARTMENT
Department Of Computer Science & Engg.
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University UGS Of UGC Act)
Chennai - 600 073, INDIA



CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY AND INFORMATION SECURITY

Date of Introduction of the Course: 12.02.2020

COURSE SYLLABUS

1. Pre-requisites in Information and Network Security

Overview of Networking Concepts: Basics of Communication Systems, Transmission Media Topology and Types of Networks, TCP/IP Protocol Stacks, Wireless Networks, the Internet.

2. Information Security Concepts

Background and Current Scenario, Types of Attacks, Goals for Security, E-commerce Security, Computer Forensics, Steganography

3. Security Threats and Vulnerabilities

Overview of Security threats, Weak / Strong Passwords and Password Cracking, Insecure Network connections, Malicious Code, Programming Bugs

4. Cryptography / Encryption

Introduction to Cryptography / Encryption, Digital Signatures, Public Key infrastructure, Applications of Cryptography, Tools and techniques of Cryptography

5. Security Management

Overview of Security Management, Information Classification Process, Security Policy, Risk Management, Security Procedures and Guidelines

6. Security Laws and Standards

Security Assurance, Security Laws, IPR, International Standards, Security Audit

7. Information and Network Security

Access Control and Intrusion Detection, Intrusion Detection Systems and Intrusion Prevention Systems

8. Server Management and Firewalls

User Management, Overview of Firewalls, Types of Firewalls, DMZ and firewall features

9. Security for VPN and Next Generation Technologies

VPN Security, Security in Multimedia Networks, Virtualization and Cloud Technology and Security.

10. System and Application Security

Security Architectures and Models, Designing Secure Operating Systems, Controls to enforce security services

11. System & OS Security

Desktop Security, email security: PGP and SMIME, Web Security: web authentication, SSL and SET
OS Security Vulnerabilities, updates and patches, OS integrity checks, Anti-virus software.

12. Wireless Networks and Security

Components of wireless networks, Security issues in wireless

COURSE OBJECTIVES

During cyber Security and Information Security course, Students will become familiar with various essential topics like preventing cyber-attacks, browsing securely, Information Security, System & OS Security, Wireless Networks and Security, etc.

Specifically, the course has the following objectives:

1. Understanding Security Threats and Vulnerabilities
2. Understanding Cryptography / Encryption
3. Know about Security Management Practices and Security Laws and Standards
4. Understanding Security for VPN and Next Generation Technologies
5. Demonstrate a conceptual understanding of the System and Application Security
6. Understanding Wireless Network and Security

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Computer Science & Engg.,
Ehavan Institute Of Higher Education & Research
(Declared as Deemed to be University U/S Of CGO Act, 1956)
Chennai - 600 073, INDIA



**CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY
AND INFORMATION SECURITY**

Date of Introduction of the Course: 12.02.2020


**The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN)
Saturday (FN&AN).**

Time Table & Lesson plan

CLASS	DATE	TOPIC
1	10.01.2020 (FN)	1. Pre-requisites in Information and Network Security Overview of Networking Concepts: Basics of Communication Systems, Transmission Media Topology and Types of Networks, TCP/IP Protocol Stacks, Wireless Networks, the Internet.
2	11.01.2020 (FN)	2. Information Security Concepts Background and Current Scenario, Types of Attacks, Goals for Security, E-commerce Security, Computer Forensics, Steganography
3	13.01.2020 (FN)	3. Security Threats and Vulnerabilities Overview of Security threats, Weak / Strong Passwords and Password Cracking, Insecure Network connections, Malicious Code, Programming Bugs
4	14.01.2020 (FN)	4. Cryptography / Encryption Introduction to Cryptography / Encryption, Digital Signatures, Public Key infrastructure, Applications of Cryptography, Tools and techniques of Cryptography
5	15.01.2020 (FN)	5. Security Management Overview of Security Management, Information Classification Process, Security Policy, Risk Management, Security Procedures and Guidelines

6	16.01.2020 (FN)	6. Security Laws and Standards Security Assurance, Security Laws, IPR, International Standards, Security Audi
7	17.01.2020 (FN)	7. Information and Network Security Access Control and Intrusion Detection, Intrusion Detection Systems and Intrusion Prevention Systems
8,9	18.01.2020 (FN & AN)	8. Server Management and Firewalls User Management, Overview of Firewalls, Types of Firewalls, DMZ and firewall features
10	20.01.2020 (FN)	9. Security for VPN and Next Generation Technologies VPN Security, Security in Multimedia Networks, Virtualization and Cloud Technology and Security.
11	21.01.2020 (FN)	10. System and Application Security Security Architectures and Models, Designing Secure Operating Systems, Controls to enforce security services
12	22.01.2020 (AN)	11. System & OS Security Desktop Security, email security: PGP and SMIME, Web Security: web authentication, SSL and SET OS Security Vulnerabilities, updates and patches, OS integrity checks, Anti-virus software.
13	23.01.2020 (FN)	12. Wireless Networks and Security Components of wireless networks, Security issues in wireless


COURSE COORDINATOR


HEAD OF THE DEPARTMENT
HEAD OF DEPARTMENT
Department Of Computer Science & Engg.
Pparath Institute Of Higher Education & Reso-
Registered by T.N. State Council of Higher Education
Chennai - 600 073. INDIA



Cyber Security And Information Security
Date of Introduction of the Course: 12-02-2020

School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U19CN417	SHANTHOSH KUMAR PANDIAN S
2	U19CN418	SHANTHOSH S
3	U19CN419	R SHARATH KRISHNA
4	U19CN420	SHARMILA B
5	U19CN421	SHEELAM SHASHIDHAR REDDY
6	U19CN422	SHESHAMSETTY VISHNU CHAKRAVARTHI
7	U19CN124	MIDDE SAILAJA
8	U19CN125	MIDDE VENKATA RAKESH
9	U19CN126	MILKURI ABHINAV
10	U19CN127	MODDU VAMSI
11	U19CN128	MODUGULA VAMSI KRISHNA
12	U19CN129	MOGAL JAKEER HUSSAIN
13	U19CN130	MOHAMED AASHIK M S
14	U19CN131	MOHAMED ABDUL SHERIEF S
15	U19CN132	MOHAMMAD RIYAZ
16	U19CN133	MOHAMMAD SAMIUDDIN
17	U19CN134	MOHAMMAD SIRAJUDDIN
18	U19CN135	MOHAMMED MASOOD AHMED
19	U19CN136	MOHAMMED SAMEER
20	U19CN137	MOKKAPATI SAI SANJAY
21	U19CN138	MONDHITHOKA JAYA KUMAR
22	U19CN139	MOODE RAJASEKHAR
23	U19CN140	MOPURI VEERA NARAYANA
24	U19CN141	MOTUPALLI EZRA PRAKASH
25	U19CN142	MOTUPALLY SRIKARA CHARYA

26	U19CN143	MUDDANA VAMSI KRISHNA
27	U19CN153	MUPPALA SIDDARDHA SAI
28	U19CN154	MUPPALA CHANDRA SEKHAR
29	U19CN155	MUPPU THARUN KUMAR
30	U19CN156	MURARI MADHU
31	U19CN157	MUVVA PRANEETH KUMAR
32	U19CN158	NADIPELLI SRINATH
33	U19CN159	NAGABOINA NARESH
34	U19CN160	NAGAPURI SAI TEJA
35	U19CN161	NAGIREDDY HARINADH REDDY
36	U19CN162	NAGULA ROHITH
37	U19CN163	NAINA MOHAMMED RIFATH K
38	U19CN164	NAKKA SAI CHARAN REDDY
39	U19CN165	NAKKA TEETHU REDDY
40	U19CN166	NALABOLU HARIKA
41	U19CN167	NALAJAM SIREESHA
42	U19CN168	NALLA SANJAY KUMAR
43	U19CN489	TATIPARTHI VENKATA ASHOK REDDY
44	U19CN490	TEJA PALIVELA
45	U19CN491	TEKUMATLA PRAVALLIKA
46	U19CN492	TELAGAMSETTI LAKSHMAN BABU
47	U19CN493	TELUGU UMA MAHESH
48	U19CN494	TELUKUTLA SAMBASIVA RAO
49	U19CN495	THAKKELLAPATI BRAHMENDRA
50	U19CN496	THALLAPALLI RAKESH
51	U19CN498	THANGELLAPALLY VIGNESH
52	U19CN499	THANISH K

R. Sreedhar

COURSE COORDINATOR

[Handwritten Signature]

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
 Department Of Computer Science & Engg.
 Bharath Institute Of Higher Education & Research
 (Declared as Deemed to be University, UISO of UGC Act, 1956)
 Chennai - 600 073, INDIA

COURSE FEEDBACK FORM

Academic Year		2019-2020					
Term							
Course Number							
Course Title		Cyber Security And Information Security					
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 <input checked="" type="checkbox"/>
2. Number of hours per week spent on the course (Other than lecture hours)							
0-2		2-4		4-6		6-8 <input checked="" type="checkbox"/>	8-10
3. Preparation for the course by the student:							
(i)	Have done part of this course earlier			No			
(ii)	Has adequate prior exposure to the prerequisites			No			
(iii)	Had to pickup relevant additional topics through concurrent study			Yes			
(iv)	Have no exposure to the background material			No			
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	<input checked="" type="checkbox"/>					
2.	Comment of the Subject		<input checked="" type="checkbox"/>				
3.	Clarity of expression	<input checked="" type="checkbox"/>					
4.	Level of preparation			<input checked="" type="checkbox"/>			
5.	Level of interaction	<input checked="" type="checkbox"/>					
6.	Accessibility outside the class		<input checked="" type="checkbox"/>				
7.	Others (please specify)	<input checked="" type="checkbox"/>					
A: Excellent	<input checked="" type="checkbox"/>	B: Very Good		C: Good		D: Satisfactory	E: Poor

HEAD OF THE DEPARTMENT

COURSE FEEDBACK FORM

Academic Year		2019-2020		
Term				
Course Number				
Course Title		Cyber Security And Information Security		
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	<input checked="" type="checkbox"/>
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2. **Number of hours per week spent on the course (Other than lecture hours)**

0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>	8-10	
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3. **Preparation for the course by the student:**

(i)	Have done part of this course earlier	No
(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	No

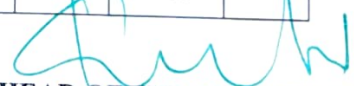
4. **The expectations for taking the course by the student are:**

(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	<input checked="" type="checkbox"/>				
2. Content of the Subject		<input checked="" type="checkbox"/>			
3. Clarity of expression	<input checked="" type="checkbox"/>				
4. Level of preparation		<input checked="" type="checkbox"/>			
5. Level of interaction	<input checked="" type="checkbox"/>				
6. Accessibility outside the class		<input checked="" type="checkbox"/>			
7. Others (please specify)	<input checked="" type="checkbox"/>				

A: Excellent	<input checked="" type="checkbox"/>	B: Very Good		C: Good		D: Satisfactory		E: Poor	
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HEAD OF THE DEPARTMENT
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DEPARTMENT OF INFORMATION TECHNOLOGY
UNIVERSITY OF KERALA

COURSE FEEDBACK FORM

Academic Year	2019-2020			
Term				
Course Number				
Course Title	Cyber Security And Information Security			
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	<input checked="" type="checkbox"/>
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>
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(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		<input checked="" type="checkbox"/>			
2.	Comment of the Subject		<input checked="" type="checkbox"/>			
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction		<input checked="" type="checkbox"/>			
6.	Accessibility outside the class	<input checked="" type="checkbox"/>				
7.	Others (please specify)		<input checked="" type="checkbox"/>			

A: Excellent	<input checked="" type="checkbox"/>	B: Very Good		C: Good		D: Satisfactory		E: Poor	
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HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
 Department Of Computer Science & Engg
 Jharath Institute Of Higher Education & Research
 (Declared as Deemed to be University by Government of Odisha)



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.

CERTIFICATE OF PARTICIPATION



MS. BANDARU RAMESH

For actively participating in the value added course “Cyber Security And Information Security ”Conducted by School of Computing, BIHER from 10.01.2020 to 23.01.2020 .

R. Sreedhar

Course Coordinator

[Signature]

Head of the Department

[Signature]

Director

**CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY
AND INFORMATION SECURITY**

Introduction of the Course: 12.02.2020



R. Sridh

Course Coordinator

[Handwritten Signature]

Head of the Department

HEAD OF DEPARTMENT
Department of Statistics
Bharathi Institute of Postgraduate Studies
(Declared as Deemed to be University) - 600 073, Chennai
Chennai - 600 073, INDIA