





ARATH INSTITUTE OF SCIENCE AND TECHNO No.173, Agharam Road, Selaiyur, Chennai , T.N 600 073

Requisition Letter

clared as Deemed - to - be

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.

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HEAD OF DEPARTMENT Desarment Of Computer Science & Engg., Bharath Insulus Of Higher Education & Research (Declared as Deemed to be University UIS 5 Of UGC Act, 1955) Chennai - 600 073. INDIA

DEAN ENGINEERING DEAN (Engineering) Eharath 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.





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	Mers C. Naline	Professor
2	Mr. R. Sridhar	Assistant Professor

Head of Department HEAD OF DEPARTMENT Department Of Computer Science & Engs. Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University Urs 5 of UGC Act, Chennai - 600 073, INDIA

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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 Audi

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., Etherath Institute Of Higher Education & Rest, 116 (Doctare 3 de Deemed to be University U/S 5 Of UCC Aut, 1205) Chennel - 605 073, INDIA



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No.173, Agharam Road, Selaiyur, Chennal , T.N - 600 073.

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)	 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	8. Server Management and Firewalls
	& AN)	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

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HEAD OF THE DEPARTMENT HEAD OF DEPARTMENT Department Of Computer Science & Engg., Etharath Institute Of Higher Education & Resolution Etharath Institute Of Higher Education & Resolution Protocol at 21 - Abai to be full of the DOSUGE ALL of the 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	MUPPALLA 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. Sucolly **COURSE COORDINATOR**

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT HEAD OF DEPARTMENT Department Of Computer Science & Engg., Eharith Institute Of Higher Education & Rescurpt Eharith Institute Of Higher Education & Rescurpt (Declarco of Demarka, US 5 Of UGC Act, 1956) Cliennal - 600 073, INDIA

COURSE FEEDBACK FORM

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1.										
	Infor	mation on	the Responde	nt: (Tick	(√) Approp	oriately)				
1.	Perce	ntage of cl	asses attended							
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						40-60	60-	30	80-100	\checkmark
!.	Numb	er of hour	rs per week spo	ent on the	e course (O	ther than le	ture hours)			
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	Prepa	ration for	the course has							
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	(i) (ii)	Hasade	quate prior exp	course ear	rlier	N	5			
	(iii)	Had to r	vickup relevent	osure to t	he prerequis	sites	10			
	(iii)	Have no	exposure to th	additiona	I topics thro	ough concurre	ent study	les		
	(11)	Have no	exposure to th	e backgro	und materia	al	No			
	The ex	pectations	s for taking the	e course l	by the stude	ent are:				
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	(b)	Get expo	osed to a releva	nt subject			U			
	(c)	Curiosity	/				Tas			
	(d)	Better Er	mployment Opp	portunity			yas			
	(e)	Complete	e Course requir	ements			Yes			
	(f)	To Impro	ove CGPA				Yes			
oout	the Ins	tructor: In	nformation on	the Resp	ondent: (Ti	ick (√) Appr	opriately)			
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	Comme	nt of the Si	ubject			\checkmark				
	Clarity of	of expressi	on		\checkmark					
	Level of	preparatio	n				\checkmark			
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-	Accessit	oility outsid	de the class							
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Exc	ellent	~	B: Very Good	t	C: Good	1	D: Satisfac	tory	E: Poo	r

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COURSE FEEDBACK FORM

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	Numbe	er of hours per v	week spent o	n the cours	e (Other f	than lectu	re hours)			
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							0.0		8-10	
	Prepar	ation for the co	urse by the s	student:						
	(i)	Have done par	t of this cours	se earlier			No			
	(ii)	Has adequate p	prior exposure	e to the prer	equisites		V.			
	(iii)	Had to pickup	relevant addi	tional topics	s through c	concurren	study (/			
	(iv)	Have no expos	ure to the bac	ckground ma	aterial	11-	70	21		
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	I ne ex	pectations for ta	aking the cou	arse by the	student an	re:				
	(a)	Enhance by sk	ill base in the	area of spec	cialization	s (les			
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COURSE FEEDBACK FORM

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Cour	se Numb	er								
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1.	Percer	itage of classes at	ttended							
	0-20		20-40		40-60		60-80		80-100	
							00 00		80-100	
2.	Numb	er of hours per w	eek spent o	n the course	Other than le	ecture hour	·s)			
	0-2		2-4		4-6		6-8		8-10	
3.	Prena	ration for the cou	urse by the c	tudent					1	
5.	(i)	Have done part	of this cours	se earlier						
	(i)	Has adequate n	tion exposure	a to the property		01/				
	(iii)	Had to pickup r	elevant addi	tional tanica ti	uisites	No				
	(iii)	Have no exposi	the to the ba	tional topics the	nrough concur	rent study	NO			
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4.	(iv) The ex	Have no exposi Repectations for ta	are to the back	ckground mate	erial udent are:	YES	VIO			
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HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Englis Ebarath Institute Of Portugi Science & Course (Declared as Deemoid to Portugi Course) Course Carolis Course Sta



CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY AND INFORMATION SECURITY

Introduction of the Course: 12.02.2020



R. Siids

Course Coordinator

Head of the Department

HEAD OF DECOMPANY Department Collection and the Bharath Institute Collection and the (Declared as Decried Control Control of Collection) Chennal - 600 073, tVDIA