



**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:17.09.2018

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 **“Computer Trouble Shooting and Networking”**-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 **“Computer Trouble Shooting and Networking”** in our campus premises on **19.09.2018**, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **CSE Smart Room**

Timing 2:00 PM to 4:0 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  
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Chennai-600 073. INDIA



DEAN ENGINEERING





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## CIRCULAR

17.09.2018

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Computer trouble shooting and networking** for the benefit of II, III and IV year students. This course is scheduled from 19.09.2018 for 28hours which includes theory and practical. The timings are 2:00 PM to 4:00 PM from Wednesday (AN) and Friday (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	R.MuthuVenkataKrishnan	Assistant Professor
2	S.Sangeetha	AssistantProfessor

**Head of Department**

To

Copy to CSE

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## **CERTIFICATE COURSE ON COMPUTER TROUBLE SHOOTING AND NETWORKING**

**Date of Introduction of the Course: 19.09.2018**

### **COURSE SYLLABUS**

#### **01. HARDWARE AND TROUBLE SHOOTING**

Overview of H/W & S/W, network, internet, Operating system, Application program, File types & managing files, file backups, Common windows problem & troubleshooting.

#### **02. WINDOWS MANAGEMENT**

Windows problem:- After installation of new Software, Running slow, Running error.

#### **03. ERROR HANDLING METHOD**

Running error, Runtime error, dived error, windows program not responding, Restart without warning.

#### **04. BOOTING**

Turn off without warning, freezing of windows, booting slow, win32 error. Fixing: Invalid page fault.

#### **05. SECURITY**

Security-Viruses, Worms, Spam, E-Mail Virus, Securing pc, Boot device.

#### **06. BASIC CONCEPT OF NETWORKS**

Basic network concepts, applications & uses of computer networks, different layers in networks, internet & web concepts, network security.

#### **07. SOFTWARE AND HARDWARE NETWORKING**

Software & hardware issues in networking, reference models, OSI, TCP, IP, UDP

#### **08. COMMUNICATION NETWORKING**

Transmission medium wired communication, wireless communication.

#### **09. EVALUATION OF COMMUNICATION.**

Satellite communication, PSTN-first generation, second generation, third generation.

#### **10. NETWORKING MEDIUM**

Modern Network Techniques: Basic modern network mediums, basic modern Modem, Ethernet, Switch, Hub, Routers

#### **11. FIREWALLS**

Internet Standardization, fire walls, proxy server, URI, URN, HTML, XML, HTTP Sockets.



### COURSE OBJECTIVES

In this course we plan to give students an overview of the field of Trouble shooting, and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing public cloud tools. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

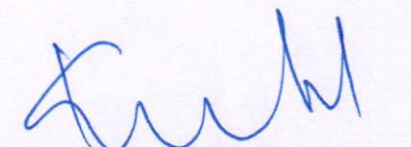
**Specifically, the course has the following objectives:**

#### **Students will learn**

- 1) At the end of the program the students will be able to understand the trouble shooting in hardware Specific.
- 2) The basic ideas and principles in data centre design; Network and Troubleshooting techniques.
- 3) Different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services on the cloud; Software Defined Networks (SDN) and Software Defined Storage (SDS);
- 4) The variety of programming models and develops working experience in several of them.



**COURSE COORDINATOR**



**HEAD OF THE DEPARTMENT**

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## **CERTIFICATE COURSE ON COMPUTER TROUBLE SHOOTING AND NETWORKING**

**Date of Introduction of the Course: 19.09.2018**

The timings are 2.00 PM to 4: PM from Wednesday (AN) and Friday (AN).

### **Time Table & Lesson plan**

<b>CLASS</b>	<b>DATE</b>	<b>TOPIC</b>
1,2	19-09-2018(AN)	<b>01. HARDWARE AND TROUBLE SHOOTING</b> Overview of H/W & S/W, network, internet, Operating system, Application program, File types & managing files, file backups, Common windows problem & troubleshooting.
3,4	21-09-2018(AN)	<b>02. WINDOWS MANAGEMENT</b> Windows problem:- After installation of new Software, Running slow, Running error.
5,6	26-09-2018(AN)	<b>03. ERROR HANDLING METHOD</b> Running error, Runtime error, dived error, windows program not responding, Restart without warning.
7,8	28-09-2018 (AN)	<b>04. BOOTING</b> Turn off without warning, freezing of windows, booting slow, win32 error. Fixing: Invalid page fault.
9,10	03-10-2018 (AN)	<b>05. SECURITY</b> Security-Viruses, Worms, Spam, E-Mail Virus, Securing pc, Boot device.
11,12	05-10-2018 (AN)	<b>06. BASIC CONCEPT OF NETWORKS</b> Basic network concepts, applications & uses of computer networks, different layers in networks, internet & web concepts, network security.
13,14	10-10-2018 (AN)	<b>07. SOFTWARE AND HARDWARE NETWORKING</b> Software & hardware issues in networking, reference models, OSI, TCP, IP, UDP



<b>15,16</b>	<b>12-10-2018 (AN)</b>	<b>08. COMMUNICATION NETWORKING</b> Transmission medium wired communication, wireless communication.
<b>17,18</b>	<b>16-10-2018 (AN)</b>	<b>09. EVALUATION OF COMMUNICATION.</b> Satellite communication, PSTN-first generation, second generation, third generation.
<b>19,20</b>	<b>10-10-2018 (AN)</b>	<b>10. NETWORKING MEDIUM</b> Modern Network Techniques: Basic modern network mediums, basic modern Modem, Ethernet, Switch, Hub, Routers
<b>21,22</b>	<b>12-10-2010 (AN)</b>	<b>11. FIREWALLS</b> Internet Standardization, fire walls, proxy server, URI, URN, HTML, XML, HTTP Sockets.



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CERTIFICATE COURSE ON COMPUTER TROUBLE SHOOTING AND NETWORKING

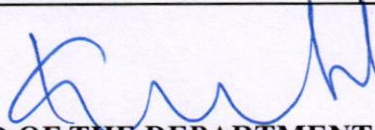
Date of Introduction of the Course: 19.09.2018

<b>School of Computing</b>		
<b>Registered Students Name List</b>		
S.NO	REG.NO	NAME OF THE STUDENT
1	U18CN167	GUNDA MANIDEEP .
2	U18CN168	MAHANKALI RAHUL .
3	U18CN169	ANUGANTI YASHWANTH SAI NIKHIL .
4	U18CN170	MATTE SURYANARAYANA
5	U18CN171	KANKATALA N V S SIVA SAI KIRAN
6	U18CN172	RAMISETTY JAGADEESH KUMAR .
7	U18CN173	KRISHNAKUMAR TARUNDEEP .
8	U18CN174	VALLAMSETTI REVANTH .
9	U18CN175	CHAMARTHI SAHIL
10	U18CN177	MIZANUR RAHMAN .
11	U18CN178	MOTHE VINOD .
12	U18CN179	PADKANTI CHINNA REDDY .
13	U18CN180	KATIPALLY VENKAT REDDY .
14	U18CN181	YERRA MANISH .
15	U18CN182	LAXMAPURAM SRINIVAS .
16	U18CN183	PUTAKALA SURYA CHANDRA .
17	U18CN184	JEEDI BHANU PRASAD .
18	U18CN185	PABATHI SRIDHAR REDDY .
19	U18CN186	ERIGINENI GURU PRASAD .
20	U18CN187	VISHAL KUMAR
21	U18CN188	GADUPUTI PRADEEP .
22	U18CN189	LOKESHWARI G M .
23	U18CN190	YETUKURI KUMARA SWAMY .
24	U18CN191	SHAIK NAGUR BASHA .
25	U18CN192	KOMMALAPATI BHARATH .



26	U18CN193	NUKAPELLY MAHIPAL .	
27	U18CN194	Padala Akhilesh Reddy P	
28	U18CN195	THUMALA RAM REDDY .	
29	U18CN196	ALLAPULLA RAKESH REDDY .	
30	U18CN197	MD ALI .	
31	U18CN198	DONTHLA NITYANAND .	
32	U18CN199	EDIGA THRIVIKRAM GOWD .	
33	U18CN200	MANNE PAVAN SATYA SIDDHI KUMAR .	
34	U18CN202	PARIMI VENKAT RAO .	
35	U18CN203	SINGHU PAVAN KUMAR	
36	U18CN204	UMER YASEEN	
37	U18CN205	POTU CHANDU SREE CHOWDARY .	
38	U18CN206	SAMA INDRASENA REDDY .	
39	U18CN207	GUNTAMUKKALA BHARATHI .	
40	U18CN208	SAMA ARUN KUMAR GOUD .	
41	U18CN209	ROHITH JETTY .	
42	U18CN210	ORUGANTI RAHUL .	
43	U18CN211	VANJARI RAMESH	
44	U18CN212	TOTA SAI RAM	
45	U18CN213	KARIPE SHIVA KUMAR	

  
**COURSE COORDINATOR**

  
**HEAD OF THE DEPARTMENT**

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## COURSE FEEDBACK FORM

Academic Year		2018-19							
Term									
Course Number									
Course Title		Computer Trouble Shooting & Networking							
Number of Credits		-							
Type of Course	Regular		Elective		Add-on	✓			
<b>I. Information on the Respondent: (Tick (✓) Appropriately)</b>									
<b>1. Percentage of classes attended</b>									
0-20		20-40		40-60		60-80	✓	80-100	
<b>2. Number of hours per week spent on the course (Other than lecture hours)</b>									
0-2		2-4		4-6		6-8		8-10	✓
<b>3. Preparation for the course by the student:</b>									
(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		
<b>4. The expectations for taking the course by the student are:</b>									
(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		
<b>About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)</b>									
		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)								
<b>A: Excellent</b>		<b>B: Very Good</b>		<b>C: Good</b>	✓	<b>D: Satisfactory</b>		<b>E: Poor</b>	


  
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## COURSE FEEDBACK FORM

Academic Year		2018-19							
Term									
Course Number		-							
Course Title		Computer trouble shooting & networking.							
Number of Credits		-							
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>			
<b>I. Information on the Respondent: (Tick (√) Appropriately)</b>									
<b>1. Percentage of classes attended</b>									
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100	
<b>2. Number of hours per week spent on the course (Other than lecture hours)</b>									
0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>
<b>3. Preparation for the course by the student:</b>									
(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	
<b>4. The expectations for taking the course by the student are:</b>									
(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								
<b>About the Instructor: Information on the Respondent: (Tick (√) Appropriately)</b>									
		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)								
<b>A: Excellent</b>		<b>B: Very Good</b>		<b>C: Good</b>		<b>D: Satisfactory</b>		<b>E: Poor</b>	
		<input checked="" type="checkbox"/>							

  
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# Sharath

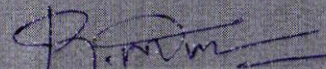
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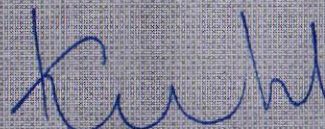
## CERTIFICATE OF PARTICIPATION

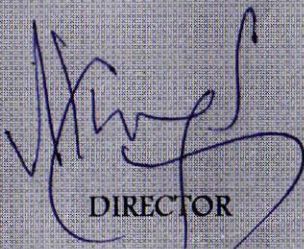
**This certificate is presented to**

LOKESHWARI.G.M

For actively participating in the value added course "Computer Trouble Shooting and Networking"  
Conducted by School of Computing, BIHER from 19.09.2018 to 12.10.2018.

  
COURSE COORDINATORS

  
HEAD OF THE DEPARTMENT

  
DIRECTOR

HEAD OF DEPARTMENT  
Department of Computer Sci. & Engg.  
Sharath Institute of Higher Education & Research  
Bihar University of Higher Education and Research  
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