

**BHARATH INSTITUTE OF LAW**  
(BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH)  
173, Agharam Road, Selaiyur, Chennai – 600 073

Ref No.: BIL/GC/VAC/02/2017

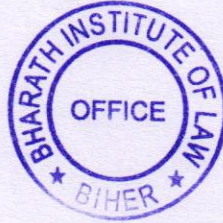
Date: 19/06/2017

**CIRCULAR**

This is to inform that Bharath Institute of Law is conducting a fundamental course on “**INTRODUCTION TO CYBER WAR, INTELLIGENCE & NATIONAL SECURITY**”. This course commences from 03<sup>rd</sup> July, 2017. The course comprises of 36 hours of lecture and practical classes. The timetable for the course is hereby attached. Interested students can get the registration form from the office and submit the same on or before 30<sup>th</sup> June, 2017.

The following members will be handling the course:

S.No.	Name of the Instructor	Designation
1	Mrs. Saranya	Advocate, High Court of Madras, Chennai.
2	Mr. Nageshwara Rao	Advocate, High Court of Madras, Chennai.
3	Mr. B. Sivaprasad	Assistant Professor, Bharath Institute of Law.



*J. G. J.*  
**DEAN-LAW**

Copy to

1. All department HOD's
2. All classes
3. Notice Board

Prof. (S. GAJENDRA RAMAN L.D.(Law),  
Bharath Institute of Law & Research  
(Declared as a University U/S 3 of UGC Act. 1956)  
Selaiyur, Chennai-600 073. INDIA





# Bharath

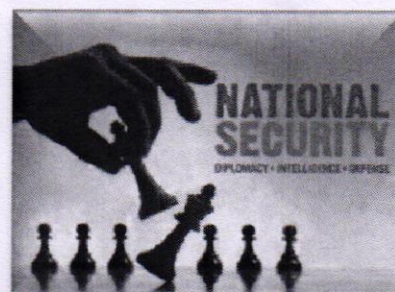
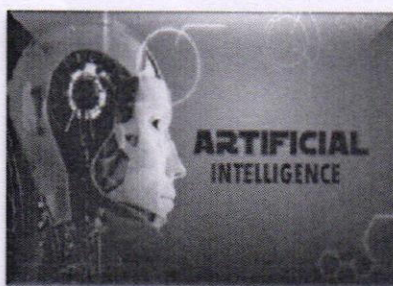
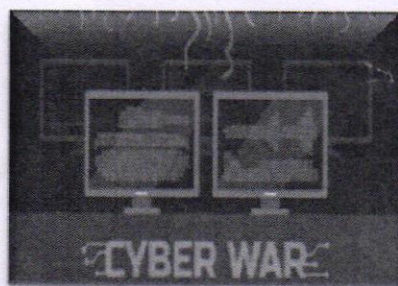
INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

ACCREDITED WITH 'A' GRADE BY NAAC



*Short term Certificate Course  
On*

## **INTRODUCTION TO CYBER WAR, INTELLIGENCE AND NATIONAL SECURITY**



- ✓ *Introduction To Cyber Warfare*
- ✓ *The IT Act, 2000 And Investigation Procedures*
- ✓ *Artificial Intelligence And Cyber Security*
- ✓ *National Security*
- ✓ *Artificial Intelligence And National Security*

**Duration : 03<sup>rd</sup> July, 2017 to 08<sup>th</sup> July, 2017**

**NO REGISTRATION FEE**

*Organized By  
Bharath Institute of Law, Chennai*



**VALUE ADDED COURSE ON INTRODUCTION TO CYBER WAR, INTELLIGENCE &  
NATIONAL SECURITY**

**Schedule of Sessions**

**Total Duration: 36 Hours**

<b>Session</b>	<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Total Hrs</b>
Session - 1	03-July-17	Monday	9:00AM to 04:20PM	6
Session – 2	04-July-17	Tuesday	9:00AM to 04:20PM	6
Session – 3	05-July-17	Wednesday	9:00AM to 04:20PM	6
Session – 4	06-July-17	Thursday	9:00AM to 04:20PM	6
Session – 5	07-July-17	Friday	9:00AM to 04:20PM	6
Session – 6	08-July-17	Saturday	9:00AM to 04:20PM	6
<b>Total Duration</b>				<b>36</b>



## **INTRODUCTION TO CYBER WAR, INTELLIGENCE AND NATIONAL SECURITY**

**Objective:** To provide basic understanding with the appropriate theoretical foundations on cyber warfare. To explain about the Information Technology Act, 2000 and the Investigation Procedures. To impart knowledge on the concept of National Security and its different dimensions.

### **COURSE OUTLINE**

#### **MODULE – I : INTRODUCTION TO CYBER WARFARE**

Cyber Warfare Threatscape: Motivation– Attackers– Threats– Fifth domain on warfare– Differences between Cyber Warrior and Traditional Warrior –Cyber Weapons–Cyber Warfare Attacks and Tactics–Cyber Defense Tactics–Cyber Warfare Doctrine and Strategy–Cyber Warfare Capabilities by Nation–Legal Status and Ethics of Cyber Warfare–Emerging trends in Cyber Warfare.

#### **MODULE – II : THE IT ACT, 2000 AND INVESTIGATION PROCEDURES**

Evolution of the IT Act, Genesis and Necessity–Salient features of the IT Act, 2000 –Various authorities under IT Act and their Powers –Penalties & Offences– Amendments –Cyber Space Jurisdiction–Sensitive Personal Data or Information (SPDI) in Cyber Law–Cyber Forensic and Computer Crimes–Prevention of Cyber Crimes & Frauds –Investigation of Cyber Crimes–Agencies for investigation in India, their powers and their constitution as per Indian Laws.

#### **MODULE – III : ARTIFICIAL INTELLIGENCE AND CYBER SECURITY**

Introduction to Artificial Intelligence and Cyber security –Artificial Intelligence and Machine Learning–Role of Artificial intelligence in cyber security–Using Artificial Intelligence Tools to Enhance Security–Politics and Big data and Decision Making Process –Artificial Intelligence in Politics –The Future of AI in Advancing Cyber Security.

#### **MODULE – IV : NATIONAL SECURITY**

Dimensions of National Security: Military, Political, Economic, Societal and Environmental Security. Asymmetrical Challenges 1: Cross Border Terrorism in Jammu and Kashmir –Rise of Ideological conflict–Naxalism–Insurgency Problems in North East. Asymmetrical Challenges 2: Environmental Security–Global Warming; types of Water Conflict, Coastal security –Economic Security – Money Laundering –funding terror & Corruption. Asymmetrical challenges 3: Small Arms Trafficking –Drug Trafficking – Human Trafficking.



## **MODULE – V :ARTIFICIAL INTELLIGENCE AND NATIONAL SECURITY**

Artificial Intelligence Applications for Defense: Intelligence, Surveillance and Reconnaissance, Logistics, Cyber Space Operations, Command and Control – Military AI Integration Challenges – International Competitors – International Institutions – AI Opportunities and Challenges – AI's Potential Impact on Combat.

### **Books Prescribed:**

1. Richard A. Clarke: Cyber War: The Next Threat to National Security and What to Do About It; Ecco; Reprint edition (2012).
2. Nina Godbole and SunitBelapore: "Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives", Wiley Publications, 2011.
3. Elaine Rich, Kevin Knight, Shivasankar B. Nair:Artificial Intelligence, The McGraw Hillpublications, Third Edition, 2009.
4. George F. Luger: Artificial Intelligence: Structures and Strategies for Complex Problem Solving, Pearson Education, 6th Edition, 2009.
5. Greg Allen (MPP), Taniel Chan: Artificial Intelligence and National Security, Harvard University, 2017.

### **Books for Reference:**

1. Heather Harrison Dinniss: Cyber Warfare and the Laws of War; Cambridge University Press, 2012.
2. Jeffrey Carr: Inside Cyber Warfare: Mapping the Cyber Underworld; O'Reilly Media, 2011.
3. The Information Technology Act, 2000; Bare Act – Professional Book Publishers, New Delhi.
4. Russell, S. and Norvig P: Artificial Intelligence: A Modern Approach, Third Edition, PrenticeHall, 2010.
5. Kevin Night and Elaine Rich, Nair B: "Artificial Intelligence (SIE)", McGraw Hill-2008.



## VALUE ADDED COURSE ON INTRODUCTION TO CYBER WAR, INTELLIGENCE & NATIONAL SECURITY

### SCHEDULE

DATE	9:00AM to 10:00AM	10:00AM to 11:00AM	BREAK (11:00 AM to 11:20AM)	11:20AM to 12:20PM	12:20PM to 1:20PM	LUNCH (1:20 PM to 2:00PM)	02:20PM to 03:20PM	03:20PM to 04:20PM
03-July-17	Inauguration	Lecture		Lecture	Lecture		Lecture	Lecture
04-July-17	Practical	Lecture		Lecture	Lecture		Lecture	Lecture
05-July-17	Lecture	Lecture		Lecture	Lecture		Lecture	Lecture
06-July-17	Lecture	Practical		Lecture	Lecture		Lecture	Lecture
07-July-17	Lecture	Lecture		Lecture	Lecture		Practical	Lecture
08-July-17	Lecture	Practical		Lecture	Lecture		Lecture	Valedictory Function



**VALUE ADDED COURSE ON INTRODUCTION TO CYBER WAR, INTELLIGENCE & NATIONAL SECURITY  
LESSON PLAN**

DATE	9:00AM to 10:00AM	10:00AM to 11:00AM		11:20AM to 12:20PM	12:20PM to 1:20PM		02:20PM to 03:20PM	03:20PM to 04:20PM
03-July-17	Inauguration	Introduction to Cyber War	<b>BREAK (11:00 AM to 11:20AM)</b>	Cyber Warrior & Traditional Warrior	Attacks and Tactics	<b>LUNCH (1:20 PM to 2:00PM)</b>	Cyber Weapons	Warfare Doctrine & Strategy
04-July-17	Ethics of Cyber Warfare (Activity)	Information Technology Act, 2000		Salient Features	Authorities under the Act		Sensitive Personal Information (SPDI)	Cyber Regulatory Appellant Tribunal
05-July-17	Cyber Forensic	Prevention of Cyber Crimes & Frauds		Agencies	Artificial Intelligence		Role of Artificial intelligence in cyber security	Artificial Intelligence Tools
06-July-17	Advancing Cyber Security	Decision Making Process (Activity)		National Security	Asymmetric warfare Challenges		Cross Border Terrorism	Environmental Security
07-July-17	Trafficking (small arms, drugs, human)	AI application Defence		Intelligence, Surveillance, and Reconnaissance	Cyber Space Operations		Military AI Integration Challenges (Activity)	AI's Potential Impact on Combat
08-July-17	AI Opportunities and Challenges	Analysing the Value of online data (Activity)		Trends of Military Robots	Recommendations for Artificial Intelligence and National Security		Corrective Measures	Valedictory Function



<b>Course Name</b>	Introduction to Cyber War, Intelligence and National
<b>Date of Introduction</b>	3-Jul-17
<b>No of Students Enrolled</b>	35

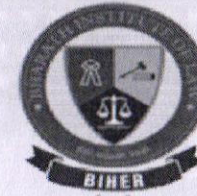
S.No	Register No	Student Name	Course
1	U16DL002	ANANDRAJ GANESH A	LLB., (Hons.)
2	U16DL006	ATHIBAN PRABAKARAN A P M	LLB., (Hons.)
3	U16DL010	CHRISTOPHER JAYAPRAKASH V	LLB., (Hons.)
4	U16DL014	DINAKARAN J	LLB., (Hons.)
5	U16DL018	JAYARAM P	LLB., (Hons.)
6	U16DL022	KOHILAVANI E	LLB., (Hons.)
7	U16DL026	NATESH ANANTH A	LLB., (Hons.)
8	U16DL030	SARATH KENNEDY J	LLB., (Hons.)
9	U16DL034	SUGANRAJAN S	LLB., (Hons.)
10	U16DL038	THANGARAJA N	LLB., (Hons.)
11	U16DL042	RAJA GOPALAN D	LLB., (Hons.)
12	U16DL046	SENTHILKUMAR K	LLB., (Hons.)
13	U16DL062	JEGAN K	LLB., (Hons.)
14	U16DL066	SANTHI A	LLB., (Hons.)
15	U16DL070	SUNDARARAJAN M	LLB., (Hons.)
16	U16DL074	SUDHAN K	LLB., (Hons.)
17	U16DL078	STEPHEN DANIEL M	LLB., (Hons.)
18	U16DL082	NARAYANA RAO D	LLB., (Hons.)
19	U16DL086	SRIDEVI P	LLB., (Hons.)
20	U16DL090	MATHIYAZHAGAN M	LLB., (Hons.)
21	U16DL094	VIJAYAKUMAR T	LLB., (Hons.)
22	U16DL098	SARADA M C	LLB., (Hons.)
23	U16DL102	NISHA V	LLB., (Hons.)
24	U16DL106	THIYAGARAJAN B	LLB., (Hons.)
25	U16BL002	ANTONY KISHORES	B.BA.,L.LB(Hons.)



S.No	Register No	Student Name	Course
26	U16BL006	HAMOOOTHUR HATHI M	B.BA.,L.LB(Hons.)
27	U16BL011	NALLASELVAMANI B	B.BA.,L.LB(Hons.)
28	U16BL015	PRAVEEN S	B.BA.,L.LB(Hons.)
29	U16BL019	SINDHU PRIYA E	B.BA.,L.LB(Hons.)
30	U16BL023	SURIYA G R	B.BA.,L.LB(Hons.)
31	U16BL027	PRABHU A	B.BA.,L.LB(Hons.)
32	U16BL031	KANMANI S	B.BA.,L.LB(Hons.)
33	U16BL035	MARUDHU PANDIAN R	B.BA.,L.LB(Hons.)
34	U16CL002	JUSTINGNANADOSS A	B.Com.,L.LB(Hons.)
35	U16CL006	SURESH KUMAR S	B.Com.,L.LB(Hons.)



**BHARATH INSTITUTE OF LAW**  
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173, Agharam Road, Selaiyur, Chennai - 600 073



*This certificate is awarded to*

**Ms. E. Sindhu Priya**

*of*

**Bharath Institute of Law, Chennai**

for successfully completing the short term certificate course on

**“Introduction to Cyber War, Intelligence and National Security”**

with a consolidated score of 75%. The course was conducted from

**03<sup>rd</sup> July, 2017 to 08<sup>th</sup> July, 2017.**

*B. Sivaprasad*

**Mr. B. Sivaprasad**  
Course Co-ordinator

*J. S. Gajendraraj*

**Prof. Dr. S. Gajendraraj**  
Dean-Law



**BHARATH INSTITUTE OF LAW**  
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173, Agharam Road, Selaiyur, Chennai – 600 073

**Course Feedback Form**

Course Title : Introduction to cyber war, Intelligence & national security  
Date From : 03/07/17 Date to : 08/07/17 Venue : Bharath Institute of Law

Please fill the short questionnaire to make the course better.

Occupation : student  
Your Organization Name : Bharath Institute of law  
Your Highest Qualifications : 12<sup>th</sup> std

Please respond below with 1, 2, 3, 4 or 5, where 1 and 5 are explained.

**THE DESIGN OF THE COURSE**

- |  |                      |                                  |
|--|----------------------|----------------------------------|
| A. Were objectives of the course clear to you?           | Yes / No             | <input type="text" value="yes"/> |
| B. The course contents met with your expectations        |                      |                                  |
| 1. Strongly disagree                                     | 5. Strongly agree    | <input type="text" value="5"/>   |
| C. The lecture sequence was well planned                 |                      |                                  |
| 1. Strongly disagree                                     | 5. Strongly agree    | <input type="text" value="4"/>   |
| D. The contents were illustrated with                    |                      |                                  |
| 1. Too few examples                                      | 5. Adequate examples | <input type="text" value="3"/>   |
| E. The level of the course was                           |                      |                                  |
| 1. Too low   | 5. Too high          | <input type="text" value="4"/>   |
| F. The course contents compared with your expectations   |                      |                                  |
| 1. Too theoretical                                       | 5. Too empirical     | <input type="text" value="5"/>   |
| G. The course exposed you to new knowledge and practices |                      |                                  |
| 1. Strongly disagree                                     | 5. Strongly agree    | <input type="text" value="4"/>   |
| H. Will you recommend this course to your colleagues?    |                      |                                  |
| 1. Not at all  | 5. Very strongly     | <input type="text" value="5"/>   |

**THE CONDUCT OF THE COURSE**

- |  |                   |                                |
|--|-------------------|--------------------------------|
| A. The lectures were clear and easy to understand          |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="5"/> |
| B. The teaching aids were effectively used                 |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="4"/> |
| C. The course material handed out was adequate             |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="4"/> |
| D. The instructors encouraged interaction and were helpful |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="4"/> |



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*Course Feedback Form*

Course Title : Introduction to Cyberwar, Intelligence & National security  
Date From : 03/7/17 Date to : 8/7/17 Venue : Bharath Institute of Law

Please fill the short questionnaire to make the course better.

Occupation : Student  
Your Organization Name : Bharath Institute of Law  
Your Highest Qualifications : 12<sup>th</sup>

Please respond below with 1, 2, 3, 4 or 5, where 1 and 5 are explained.

**THE DESIGN OF THE COURSE**

- |  |                      |                                  |
|--|----------------------|----------------------------------|
| A. Were objectives of the course clear to you?           | Yes / No             | <input type="text" value="Yes"/> |
| B. The course contents met with your expectations        |                      |                                  |
| 1. Strongly disagree                                     | 5. Strongly agree    | <input type="text" value="3"/>   |
| C. The lecture sequence was well planned                 |                      |                                  |
| 1. Strongly disagree                                     | 5. Strongly agree    | <input type="text" value="4"/>   |
| D. The contents were illustrated with                    |                      |                                  |
| 1. Too few examples                                      | 5. Adequate examples | <input type="text" value="4"/>   |
| E. The level of the course was                           |                      |                                  |
| 1. Too low   | 5. Too high          | <input type="text" value="5"/>   |
| F. The course contents compared with your expectations   |                      |                                  |
| 1. Too theoretical                                       | 5. Too empirical     | <input type="text" value="3"/>   |
| G. The course exposed you to new knowledge and practices |                      |                                  |
| 1. Strongly disagree                                     | 5. Strongly agree    | <input type="text" value="4"/>   |
| H. Will you recommend this course to your colleagues?    |                      |                                  |
| 1. Not at all  | 5. Very strongly     | <input type="text" value="4"/>   |

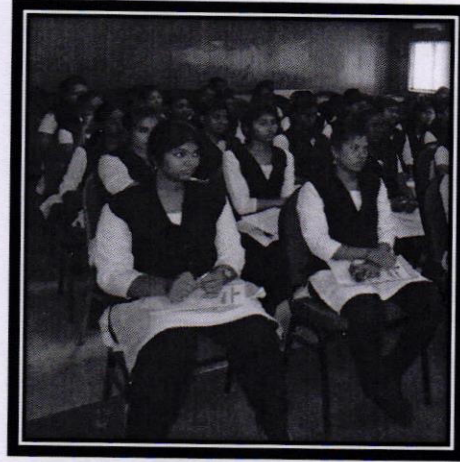
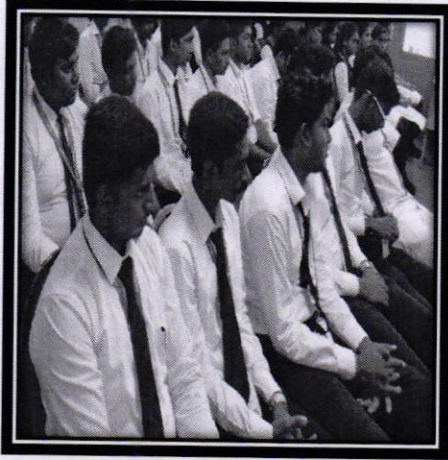
**THE CONDUCT OF THE COURSE**

- |  |                   |                                |
|--|-------------------|--------------------------------|
| A. The lectures were clear and easy to understand          |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="5"/> |
| B. The teaching aids were effectively used                 |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="5"/> |
| C. The course material handed out was adequate             |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="3"/> |
| D. The instructors encouraged interaction and were helpful |                   |                                |
| 1. Strongly disagree                                       | 5. Strongly agree | <input type="text" value="4"/> |



**VALUE ADDED COURSE ON INTRODUCTION TO CYBER WAR,  
INTELLIGENCE & NATIONAL SECURITY**

**STUDENTS' PARTICIPATION**



A fundamental course on **'INTRODUCTION TO CYBER WAR, INTELLIGENCE & NATIONAL SECURITY'** was organized and conducted by the Bharath Institute of Law for the benefit of law students from 03<sup>rd</sup> July, 2017 to 08<sup>th</sup> July, 2017. Totally 35 students attended this course.

The following resource persons conducted the course:

- Mrs. Saranya, Advocate, High Court of Madras, Chennai
- Mr. Nageshwara Rao, Advocate, High Court of Madras, Chennai
- Mr. B. Sivaprasad, Assistant Professor, Bharath Institute of Law.

*B. Sivaprasad*  
**COURSE COORDINATOR**