

<b>Course Number and Name</b>												
BEE030 & Cyber Security												
<b>Credits and Contact Hours</b>												
3 & 45												
<b>Course Coordinator's Name</b>												
Ms.Kavitha												
<b>Text Books and References</b>												
<b>References:</b>												
1. "Information Security Awareness Handbook, ISEA, Department of Electronics and Information Technology", Government of India, 2010												
2. <a href="http://deity.gov.in/sites/upload_files/dit/.../itact2000/it_amendment_act2008.pdf">deity.gov.in/sites/upload_files/dit/.../itact2000/it_amendment_act2008.pdf</a>												
3. <a href="http://www.schneier.com/blog/archives/2013/03/browser_security.html">www.schneier.com/blog/archives/2013/03/browser_security.html</a>												
4. <a href="http://www.dhSES.ny.gov/ocs/awareness-training-events/news/2010-03.cfm">www.dhSES.ny.gov/ocs/awareness-training-events/news/2010-03.cfm</a>												
5. <a href="https://www.watsonhall.com/e-commerce-security/">https://www.watsonhall.com/e-commerce-security/</a>												
<b>Course Description</b>												
The proliferation of Internet has impacted the lives of people in all professions. Equally, they are also prone to get attacked by hackers and intruders and eventually lose their privacy. Naïve users of Internet, without proper awareness and implications carry out communication in the cyber world. Therefore, it becomes indispensable for every individual to gain knowledge in the fundamentals of cyber security, best practices related to cyber security and legal implications of intruding in the privacy of others. This necessitates the need for this course on Cyber Security												
<b>Prerequisites</b>						<b>Co-requisites</b>						
Fundamentals of Computing						Nil						
required, elective, or selected elective (as per Table 5-1)												
Required												
<b>Course Outcomes (COs)</b>												
CO1: Understand the need for Cyber security and its related threats and attacks												
CO2: Learn methods to become secure in the cyber world and securely communicate in the cyber world.												
CO3: Become knowledgeable about the best practices related to cyber security, regulations and laws associated with the same.												
<b>Student Outcomes (SOs) from Criterion 3 covered by this Course</b>												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	L
CO1		M	M		M	M	M			H	L	M
CO2		M	M		H	M	M		M	M	M	M
CO3		M			H	H	M			M	L	M
<b>List of Topics Covered</b>												
<b>UNIT I NEED FOR CYBER SECURITY</b>											<b>9</b>	
Introduction to security- CIA triad-Case studies- security attacks-issues related to social												

networking - Guidelines

**UNIT II      METHODS TO SECURE YOURSELF IN THE CYBER WORLD      9**

Why and What of Reversible and Irreversible Cryptographic mechanisms? - Applications of Digital Signature - Good password practices

**UNIT III      E-COMMERCE: SECURE TRANSACTIONS      9**

What is E-commerce? – Online banking security- Online shopping fraud-Guidelines and Recommendations

**UNIT IV      EVERYDAY SECURITY      9**

Connecting your laptop, mobile devices, PDAs to Internet-Managing your browser-Facebook Security-E-mail security – Safe guarding from Viruses: Antiviruses– Best practices and guidelines

**UNIT V      CYBER SECURITY LAWS AND COMPETENT AUTHORITIES      9**

Indian IT Act, 2008 - What is Cyber Forensics? – Functions of cybercrime cell – Responding to a cyber attack.