



**National Institute of Technology Meghalaya**  
An Institute of National Importance

**CURRICULUM**

Programme	<b>Bachelor of Technology in Computer Science and Engineering</b>	Year of Regulation	<b>2019-20</b>
Department	<b>Computer Science and Engineering</b>	Semester	<b>V</b>

Course Code	Course Name	Credit Structure				Marks Distribution			
		L	T	P	C	INT	MID	END	Total
<b>CS315</b>	<b>E-Commerce and Cyber Laws</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>200</b>

Course Objectives	Course Outcomes	To develop the student's ability to understand the concept of e-commerce.	CO1	Able to acquire <b>knowledge</b> about e-commerce and the network of e-commerce
		To provide the students about electronic retailing	CO2	Able to acquire <b>knowledge</b> about the background of economics of e-commerce, and <b>understand</b> Electronic Retailing
		To develop the student's ability to analyse the security involved in the networking where e-commerce is done.	CO3	Able to <b>understand</b> and <b>analyse</b> the network security which is the base of e-commerce.
		To familiarize the student the need of security in electronic payment done in e-commerce.	CO4	Able to <b>understand</b> and <b>analyse</b> the electronic payment system and its privacy and social impacts.
		To familiarize the student the legal issues related to digital world.	CO5	Able to <b>understand</b> and <b>analyse</b> the legal issues, public policies, international issues in the digital world.

No.	COs	Mapping with Program Outcomes (POs)												Mapping with PSOs		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	CO1	3	2	0	0	0	0	0	0	0	0	0	0	2	0	3
2	CO2	3	3	1	0	0	0	0	0	2	0	1	0	3	2	2
3	CO3	3	3	3	1	2	1	2	0	2	0	0	0	3	3	2
4	CO4	2	3	3	1	2	2	2	0	2	0	1	1	2	2	3
5	CO5	2	3	3	1	2	2	2	0	2	0	3	1	1	2	3

**SYLLABUS**

No.	Content	Hours	COs
I	Introduction to Electronic commerce: Defining e-commerce, History of money and electronic money. The Network Infrastructure for Electronic Commerce: The Internet and WWW Technology, digital convergence and commerce.	<b>06</b>	<b>CO1</b>
II	Economics of Electronic Commerce: Transactions and Accounting Costs, Pricing of Goods and Services on the Internet. Electronic Retailing: Web Based Business Models, Purchasing Agents, Online Shopping Marketing and Advertising on the Net: Emerging marketing and advertising models.	<b>10</b>	<b>CO2</b>
III	Network Security: Firewalls, Encryption and Transaction Security (Secret Key and Public Key Cryptography), Digital Signatures, Certificates, Certificate Authorities.	<b>10</b>	<b>CO3</b>
IV	Electronic Payment Systems: Tokenized vs. Notational systems, Credit Card based systems, Electronic Checks, Electronic Cash and Micro transactions, Smart Cards, Protocols and Standards. Privacy, Anonymity and Social Impacts of Electronic Cash Topics: Privacy, Anonymity, and traceable E-money.	<b>12</b>	<b>CO4</b>
V	Legal Issues: Electronic Contracting and Digital Signatures, Intellectual Property, Copyright, Trademark, and Patents, Cybercrime and Money Laundering. Public Policy Issues: What is the Government's role? Electronic Commerce and Financial Services Topics: Banking, Securities and Brokerage International Issues/Commerce, Copyright and Online Publishing Topics: Commodification of Information, Property Rights vs. Freedom of Information, Electronic publishing and digital copyrights	<b>10</b>	<b>CO5</b>
<b>Total Hours</b>		<b>48</b>	

**Essential Readings**

- Lynch/Lundquist, Digital Money: The New Era of Internet Commerce, Wiley Publications, 1<sup>st</sup> Edition, 1996.
- Joseph Migga Kizza, Computer Network Security and Cyber Ethics, McFarland & Company, 3<sup>rd</sup> Edition, 2011.
- Jaynice Reynolds, The Complete E-commerce Book, CRC Press, 2<sup>nd</sup> Edition 2004.

**Supplementary Readings**

- Henry Chan et. al, E-Commerce, Fundamentals and Applications, Wiley Publications, 1<sup>st</sup> Edition, 2001.
- Jyoti Rattan, Vijay Rattan, Cyber Laws & Information Technology, Bharat Law House, 1<sup>st</sup> Edition, 2017.
- Donna L. Hoffman, Thomas P. Novak, A New Marketing Paradigm for Electronic Commerce, The Information Society, Vol. 13, No. 1, 1997.