

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

**List of Online Courses for 2<sup>nd</sup> Year, 3<sup>rd</sup> Year and 4<sup>th</sup> Year B.Tech Courses of IT and CSE For Additional Credit Earning**

<b>Year</b>	<b>Basket of Courses</b>	<b>Duration</b>	<b>Credit</b>	<b>Offered by</b>
2 <sup>nd</sup> Year	Introduction to Computing for Data Analysis with Python	6 weeks	3	Edx
	Web Application Development	6 weeks	3	Course era
	Introduction to Design Thinking	5 weeks	3	Edx(Microsoft)
	Introduction to Data Modelling	4 weeks	2	Edx(Microsoft)
	Foundation of Data Structures	6 weeks	3	Edx (IIT Bombay)
	Cyber Physical Systems	6 weeks	3	Edx
	The Bits and Bytes of Computer Networking	4 weeks	2	Courseera(Google)
	Bayesian Statistics:Techniques and Models	5 weeks	3	Courseera(University of California)
	Introduction to Cisco Neiworking	4 weeks	2	Courseera(CISCO)
	Using Databases with Python	5 weeks	3	Courseera(Michigan University)
3 <sup>rd</sup> Year	Ethical Hacking	8 weeks	3	Udemy
	Data Communications and Network Services	4 weeks	2	Courseera(CISCO)
	Functional Programming in Scala	6 weeks	3	Courseera
	Introduction to Computational Thinking and Data Science	10 weeks	4	Edx(MIT)
	Neural Networks	14 weeks	4	Courseera

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Bitcoin and Cryptocurrency Technologies	11 weeks	4	Courseera(Princeton University)
Text Mining in Python	4 weeks	2	Courseera(Michigan Univ.)
Embedded Systems	12 weeks	4	NPTEL
Pattern Recognition	12 weeks	4	NPTEL
Virtual Reality	4 weeks	2	Courera(London Univ)
Data Mining: Theories and Algorithms for Big Data	14 weeks	4	Edx(Tsinghua Uni.)
Cloud Computing	5 weeks	3	Courseera(Illinois Univ.)
Principles of Machine Learning	6 weeks	3	Edx(Microsoft)/
Machine Learning	12 weeks	4	NPTEL
Cybersecurity and its 10 domains	7 weeks	3	Courseera(Georgia University)
Teamwork and Collaboration	3 weeks	2	edX
Entrepreneurship in Emerging Economies	6 weeks	3	edX
Design and Analysis of Experiments	12 weeks	4	NPTEL
Quality Design and Control	12 weeks	4	NPTEL
Six Sigma	12 weeks	4	NPTEL
Patent Drafting for Beginners	4 weeks	2	NPTEL
Patent Law for Engineers and Scientists	12 weeks	4	NPTEL
Mathlab Programming for Numerical Computation	8 weeks	3	NPTEL
Teamwork and Collaboration	3 weeks	2	Edx
Cryptography and	12	4	NPTEL

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4 <sup>th</sup> Year	Network Security	weeks		
	Big Data Analytics	10 weeks	4	Edx(Adelaide Univ.)
	Artificial Intelligence	12 weeks	4	NPTEL
	Data Science with Python	10 weeks	4	Edx(UCSanDiegoX)
	Neural Networks for Machine Learning	16 weeks	4	Courseera(Universit y of Toronto)
	Deep Learning	6 weeks	3	Edx(Microsoft)
	Internet of Things	12 weeks	4	NPTEL
	Chaos, Fractals and Dynamic Systems	12 weeks	4	NPTEL
	Computer Forensics	8 weeks	3	Edx
	Graph Theory	12 weeks	4	NPTEL
	Data Science for Engineers with R	8 weeks	3	NPTEL
	Social Networks	12 weeks	4	NPTEL
	Biometrics	8 weeks	3	NPTEL
	Robotics: Vision Intelligence & Machine Learning	12 weeks	4	Edx (Pennsylvania Univ.)
	Remote Sensing	12 weeks	4	NPTEL
	Leadership for Engineers	6 weeks	3	edX
	Becoming an Entrepreneur	6 weeks	3	edX
	Compliance in Office 365: Data Governance	4 weeks	2	edX
	Marketing Fundamentals: Who Is Your	4 weeks	2	edX

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	Customer?			
	Strategic Performance Management	8 weeks	3	NPTEL
	Business Analytics for Management Decision	12 weeks	4	NPTEL
	Business Analytics and Data Mining Modeling using R	12 weeks	4	NPTEL
	Consumer Behaviour	8 weeks	3	NPTEL
	Introduction to Research	8 weeks	3	NPTEL
	Services Management- A practical approach	4 weeks	2	NPTEL
	Systems Engineering: Theory and Practice	8 weeks	3	NPTEL
	Soft Skills for Business Negotiations and Marketing Strategies	12 weeks	4	NPTEL