# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

# Notice

24th January, 2020

#### **MOOCs for B.Tech Honours**

(Applicable from the session Jan-June, 2019-2020)

# **MOOC** for First Year, Engineering and Technology

		MOOC for Firs	st Tear, Engi		Teenn		
Sl.N o.	Module	Course	Provider	Duration	Credi ts	Name of University / Institute	Status
1		Ethics in Engineering Practice	NPTEL	8 weeks	3	IIT Kharagpur	Active
2		Ethics,Technology and Engineering	Coursera	8 weeks	3	Technische University &Eindhoven University of Technology	Active
3		Ethics and Law in Data and Analytics	edX	Self Paced	4	Microsoft	Active
4	Ethics	A Life of Happiness and Fulfillment	Coursera	6 weeeks	2	Indian School of Business	Active
5		Introduction to Philosophy: God, Knowledge, and Consciousness	edX	12 weeks	4	MIT	Active
6		Ethical Leadership Through Giving Voice	Coursera	4 weeks	2	University of Virginia	Active
7		Better Spoken English	NPTEL	12 week	4	IIT Madras	Active
8		English language for Competitive exams	NPTEL	12 week	4	IIT Madras	Active
9		Enhancing Soft Skills and Personality	NPTEL	8 weeks	3	IIT Kanpur	Active
10		Problem solving through Programming In C	NPTEL	8 weeks	3	IIT Kharagpur	Active
11		Speak English Professionally: In Person, Online & On the Phone	Course era	4 weeks	1	Georgia Tech	Active
12	Soft Skills	Communication in the 21st Century Workplace	Coursera	4 weeks	1	University of California	Active
13		Successful Career Development	Coursera	7 weeks	2	University System of Georgia	Active
14		Working in Teams: A Practical Guide	edX	4 weeks	1	University of Queensland	Active
15		Communication theory: bridging academia and practice	Coursera	9 weeks	3	Higher School of Economics	Active
16		Speaking Effectively	NPTEL	8 weeks	3	Indian Institute of Technology, Kharagpur	Active

17		Write Professional Emails in English	Coursera	5 weeks	2	Georgia Institute of Technology	Active
18		Technical Writing	Coursera	5 weeks	1	Moscow Institute of Physics and Technology	Active
19	-	Creating Innovation	Coursera	6 weeks	2	Macquarie University	Active
20		Interpersonal Communication for Engineering Leaders	Coursera	4 weeks	1	Rice University	Active
21	-	Creating Innovation	Coursera	6 weeks	2	Macquarie University	Active
22		Take Your English Communication Skills to the Next Level	Coursera	4 weeks	1	Georgia Institute of Technology	Active
23		Grammar and Punctuation	Coursera	4 weeks	1	University of California	Active
24		How to Write an Essay	edx	5 weeks	1	University of California,Berkeley	Active
25		Advanced Writing	Coursera	4 weeks	1	University of California ,Irvine	Active
26		English for Science,Technology,Engin eering, and Mathematics	Coursera	5 weeks	1	University of Pennsylvania	Active
27		English Composition	edX	8 weeks	3	Arizona State University	Active
28		Soft skills	NPTEL	12 Weeks	4	IIT Roorkee	Active
29		Presentation Skills: DesigningPresentation Slides	Coursera	4 weeks	1	Tomsk State University	Active
30		Employment Communication A Lab based course	NPTEL	8 weeks	3	IIT KGP	Active
31		Introduction to Programming with MATLAB	Courseera	9 weeks	3	Vanderbilt University	Active
32	Program ming	Programming In C++	NPTEL	8 weeks	3	IIT Kharagpur	Active
33	skills	Learn to Program: The Fundamentals	Coursera	7 weeks	2	University of Toronto	Active
34		Introduction to computer Science	edx	4-5 weeks	2	Microsoft	Active
35		Introduction to Computer Science and Programming Using Python	edX	Self Paced	4	MIT, USA	Active
36		Introduction to Programming in C	Coursera	4 weeks	4	Duke University	Active
37		Java Programming: Solving Problems with Software	Coursera	4 weeks	4	Duke University	Active
38		Java For Android	Coursera	4 weeks	4	Vanderbilt University	Active

39		Responsive Website Basics: Code with HTML, CSS, and JavaScript	Courseera	4 weeks	1	University of London Microsoft	Active
40		Introduction to HTML5	Course era	3 weeks	1	University of Michigan	Active
41		HTML5 Coding Essentials and Best Practices	edX	6 weeks	2	W3C	Active
42		Problem solving through Programming In C	NPTEL	12 Weeks	4	IIT Kharagpur	Active
43		Joy of computing using Python	NPTEL	12 Weeks	4	IIT Ropar	Active
44		Learn to Program: The Fundamentals	Coursera	7 weeks	3	University of Toronto	Active
45		Web Design for Everybody (Basics of Web Development and Coding) Specialization	Coursera	15weeks	4	University of Michigan	Active
46		Inferential Statistics	Coursera	7 weeks	2	Duke University	Active
47	Statistics	Data Science :Linear Regression	Coursera	8 weeks	3	Havard University	Active
48		Introduction to Data Analysis	Coursera	4 weeks	1	Rice University	Active
49		The Science of Well Being	Coursera	6 weeks	2	Yale University	Active
50	Environ mental Studies	Ecology: Ecosystem Dynamics and Conservation	Coursera	5 weeks	1	American Museum of Natural History, Howard Hughes Medical Institute	Active
51		Effective Problem- Solving and Decision- Making	Coursera	4 weeks	1	University of California	Active
53		Critical Thinking & Problem Solving	edX	3 weeks	3	Rochester Institute of Technology	Active
54		Moralities of Everyday Life	Coursera	6 weeks	2	Yale University	Active
55	Others	Introduction to Logic	Coursera	10 weeks	3	Stanford University	Active
56	3	The Science of Everyday Thinking	edX	12 weeks	4	University of Queensland	Active
57		Digital Security and Human Rights	edx	3 weeks	1	Amnesty International X	Active
58		Emotional Intelligence	NPTEL	8 weeks	3	IIT KGP	Active
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Developing Soft Skills   NPTEL   8 weeks   3   IIT Kanpur   Archived							
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Skills	72	Conversational English	edX	10 weeks	3	Tsinghua University	Archived
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Development							
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# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL List of Online Courses for 2nd Year, 3rd Year and 4th Year B.Tech Courses of IT and CSE for Additional Credit Earning

	2 <sup>nd</sup> Year				
Module	Basket of Courses	Duration	Credit	Offered by	Status
Programming Skills	Programming in Java	12 Weeks	4	NPTEL	Active
1 rogramming 5kms	AP Computer Science A: Java Programming Polymorphism and Advanced Data Structures	6 weeks	3	edX	Active
	Build your very first iOS app	8 weeks	3	edX	Active
	Gameplay Programming for Video Game Designers	5 weeks	3	edX	Active
	An Introduction To Programming Through C++	12weeks	4	NPTEL	Active
	Introduction to Computer Science & Programming Specialization	8 weeks	3	Courseer a	Active
	Introduction to scripting in Python	8 weeks	3	Courseer a	Active
Data Structure & Algorithm	Foundation of Data Structures	6 weeks	3	edX	Active
Statistical / Mathematical s	Bayesian Statistics:Techniq ues and Models	5 weeks	3	Courseer a	Active
Methods	Mathematical Modelling Basics	9 weeks	4	edX	Active
	Animation and CGI Motion	12 weeks	4	edX	Active
Multimedia & Web Applications	Web Application Development	6 weeks	3	Courseer	Active
***	Web Design for Everybody Specialization	12 weeks	4	Courseer	Active

Networking	The Bits and Bytesof ComputerNetworking	4 weeks	2	Courseer	Active
	Introduction to Cisco Networking	4 weeks	2	Courseer a	Active
Data Science					
	Introduction to data science in python	3 weeks	1	Courseer a	Active
	What is Data Science?	3 weeks	1	Courseer a	Active
	Introduction to Big Data	3 weeks	1	Couseera	Active
	The Data Science Tool Box	2 weeks	1	Couseera	Active
	Data Driven Decision Making	2 weeks	1	Couseera	Active
	A Crash Course in Data Science	1 weeks	1	Couseera	Active
Cyber Security	Digital Security and Human Rights	3 weeks	2	edX	Active
Other	Data Analysis and Presentation Skills: the PWC approach Specialization	12 weeks	4	Couseera	Active
	Introduction to Soft Computing	8 Weeks	3	NPTEL	Active

# Archived for the Present Session(January -June, 2020)

Introduction to Design Thinking	5 weeks	3	edx	
				Archived
Introduction to Automata, Languages	12 Weeks	4		
and Computation			NPTEL	Archived
	8 weeks	3	NPTEL	Archived
Theory of Computation				
Introduction to Data Modelling	4 weeks	2	edX	Archived
Java Fundamentals for Android	6 weeks	3	edX	Archived
Development				
Switching Circuits and Logic Design	12 weeks	4	NPTEL	Archived
Synthesis of Digital Systems	12 weeks	4	NPTEL	Archived
Introduction to Computing for Data	6 weeks	3	edX	Archived
Analysis with Python				

	3 <sup>rd</sup> Year				
Module	Basket of Courses	Duratio n	Credi t	Offere d by	Status
Computer Organization &Architectur e					
DBMS	Using Databases with Python	5 weeks	3	Courseer	Active
	Data Base Management System	8 weeks	3	NPTEL	Active
Mathematics	Discrete Mathematics	12 Weeks	4	NPTEL	Active
Operating System					
Data Structure & Algorithm	Programming, Data Structures and Algorithms using Python	8 weeks	3	NPTEL	Active
_	Design and Analysis of Algorithms	8 weeks	3	NPTEL	Active
	Algorithm Specialization	16 weeks	4	Courseer a	Active
	Divide and conquer ,Sorting, Searching and Randomized Algorithm	4weeks	2	Courseer a	Active
Cloud Computin					
g	Cloud Computing	8 weeks	3	NPTEL	Active
	Cloud Computing	5 weeks	3	Courseer	Active
Cyber Security					
	Bitcoin and Cryptocurrency Technologies	11 weeks	4	Courseer a	Active
	Ethical Hacking	8 weeks	3	Udemy	Active
	Cybersecurity and its 10 domains	7 weeks	3	Courseer	Active
	Cryptography and Network Security	12 Weeks	4	NPTEL	Active
		1.0			
Networking	Introduction to Internet of Things	12 Weeks	4	NPTEL	Active

	Introduction to Industry 4.0 and Industrial	12	4		Active
	Internet of Things	Weeks		NPTEL	
	Introduction to the Internet of Things	6 weeks	3	edX	Active
	IoT Programming and Big Data	5 weeks	3	edX	Active
	Data Communications and Network Services	4 weeks	2	Courseer	Active
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UML Designing	UML Class Diagrams for Software Engineering	3 weeks	2	edX	Active
Software Engineerin g	Formal Software Verification	8 weeks	3	edX	Active
	Software testing	12 weeks	4	NPTEL	Active
	Software Testing Fundamentals	8 weeks	3	edX	Active
	Software Testing Management	8 weeks	3	edX	Active
	Quality Design and Control	12 weeks	4	NPTEL	Active
	Six Sigma	12 weeks	4	NPTEL	Active
	Software Product Management Specialization	16 weeks	4	Courseer a	Active
	Software Product Management Specialization	16 weeks	4	Courseer a	Active
Industrial Management	Entrepreneurship in Emerging Economies	6 weeks	3	edX	Active
Management	Patent Drafting for Beginners	4 weeks	2	NPTEL	Active
	Patent Law for Engineers and Scientists	12 weeks	4	NPTEL	Active
Data Science	Introduction to Computational Thinking and	10 weeks	4	edX	Active
	Data Science				
	Big Data Fundamentals	10 weeks	4	edX	Active

	Big Data Analytics	10 weeks	4	edX	Active
	Text Mining in Python	4 weeks	2	Courseer a	Active
	Foundations of Data Science: Computational Thinking with Python	5 weeks	3	edX	Active
	Data Science for Engineers	8 weeks	3	NPTEL	Active
	Python for Data Science	4 weeks	2	NPTEL	Active
	How to win a Datascience Competition:  Learn from Top Kagglers	5weeks	2	Courseer	Active
Multimedia & Web Applications	Virtual Reality	4 weeks	2	Courseer a	Active
AI & Machine	Principles of Machine Learning	6 weeks	3	edX	Active
Learning	Machine Learning	12 weeks	4	NPTEL	Active
	AI For Everyone	4 weeks	2	Courseera	Active
	Robotics :Aerial Robotics	6 weeks	3	Coursee ra	Active
	Deep learning in Computer Vision	5weeks	2	Coursee ra	Active
	Deep Learning – Part 1	12 weeks	4	NPTEL	Active
	AI:Knowledge Representation and Reasoning	12 weeks	4	NPTEL	Active
	Neural Network	14 weeks	4	Coursee ra	Active
	Introduction to Machine Learning	12 weeks	4	NPTEL	Active
Programming Skills	Functional Programming in Scala	6 weeks	3	Coursee ra	Active

	Using python to access web data	6 weeks	3	Coursee ra	Active
	Python Data Structures	2weeks	1	Coursee ra	Active
	Programming in C++	8 weeks	3	NPTEL	Active
	Matlab Programming for Numerical Computation	8 weeks	3	NPTEL	Active
	Python 3 Programming Specialization	8 weeks	3	Couseer a	Active
Natural Language	Natural Language Processing	5 weeks	3	Coursee ra	Active
Processing Other	Embedded Systems and Design	12 weeks	4	NPTEL	Active
	A System View of Communications: From Signals to Packets (Part 2)	6 weeks	3	edX	Active
	Teamwork and collaboration	3 weeks	2	edx	Active
	Archived for the Present Session(January -J	une, 2020)			
	Modern Algebra	8 weeks	3	NPTEL	Archived
	Ethical Hacking	12 Weeks	4	NPTEL	Archived
	Artificial Intelligence Search Methods For Problem Solving	12 weeks	4	NPTEL	Archived
	Machine Learning for Engineering and Science Applications	12 weeks	4	NPTEL	Archived
	Computer Vision	12 weeks	4	NPTEL	Archived
	Introduction to parallel Programming in Open MP	4 weeks	2	NPTEL	Archived
	Scalable Data Science	8 weeks	3	NPTEL	Archived
	Software Project Management	12 weeks	4	NPTEL	Archived
	Software Engineering	12 weeks	4	NPTEL	Archived
	Design and Analysis of Experiments	12 weeks	4	NPTEL	Archived
	Pattern Recognition	12 weeks	4	NPTEL	Archived

Crytography and Network Security	12	4	NPTEL	Archived
Object oriented analysis and design	8 weeks	3	NPTEL	Archived
Data Mining: Theories and Algorithms for Big Data	14 weeks	4	edX	Archived
Applied Natural Language Processing	12 weeks	4	NPTEL	Archived
Natural Language Processing	12 weeks	4	NPTEL	Archived
Operating System Fundamentals	12 Weeks	4	NPTEL	Archived
Introduction to Operating Systems	8 weeks	3	NPTEL	Archived
Computer Architecture and Organization	12 Weeks	4	NPTEL	Archived
Computer Organization and Architecture: A Pedagogical Aspect	12 weeks	4	NPTEL	Archived
Introduction to Machine Learning	8 weeks	3	NPTEL	Archived
Parallel Algorithms	12 weeks	4	NPTEL	Archived

		41	th Year			
Cyber Security		Cyber security and Privacy in the IoT	5 weeks	3	edX	Active
		IoT System Design: Software and Hardware Integration	4 weeks	2	edX	Active
		Blockchain and Fin Tech: Basics, Applications, and Limitations	6 weeks	3	edX	Active
		Block Chain Specialization	8 weeks	3	Course era	Active
		A System View of Communications: From Signals to Packets (Part 3)	5 weeks	3	edX	Active
		Introduction to Internet of Things	12 weeks	4	NPTEL	Active
Mathematics	s					
		Mathematics For Machine Learning: Multivariate Calculas	6 weeks	3	Courseer a	Active
T 1 ( * 1		4 1 t' E 1 t 1	4 weeks	2	137	
Industrial Management	N	Marketing Fundamentals	4 weeks	2	edX	Active
D	IDI		0 1			
Data Science	IBM	Data Science Professional Certificate	8 weeks	3	Couseera	Active
		Data Science with Python	10 weeks	4	edX	Active
AI & Machine Learning	I	ntroduction to Artificial Intelligence	12 weeks	4	NPTEL	Active
g		andations of Data Science: ction and Machine Learning	6 weeks	3	edX	Active
		Deep Learning Specialization	12 weeks	4	Couseera	Active
		chine learning with Tensor Flow on Google ud Platform Specialization	4 weeks	1	Couseera	Active
		pplied Machine Learning with Python	3weeks	1	Couseera	Active
	Co	nvolution Neural Network	4weeks	1	Couseera	Active
		Sequence Model	2weeks	1	Couseera	Active

	Deep Learning	6 weeks	3	edX	Active
	Deep Learning	12 weeks	4	NPTEL	Active
	Practical Machine Learning with Tensor	8 weeks	3	NPTEL	Active
	flow Reinforcement Learning	12 weeks	4	NPTEL	Active
Cloud Computing	Cloud Computing Management	8 weeks	3	edX	Active
	Cloud Computing Infrastructure	8 weeks	3	edX	Active

	Data Engineering on Google Cloud Platform Specialization	4 weeks	1	Courseera	Active
	Security in Google Cloud Platform Specialization	4 weeks	1	Courseera	Active
	AWS Fundamental: Going Cloud Native	5 weeks	2	Course era	Active
	Google cloud Platform Big data and Machine Learning Platform	2 weeks	1	Courseera	Active
Remote Sensing	Remote Sensing Essential	12 weeks	4	NPTEL	Active
Others	Leadership for Engineers	6 weeks	3	edX	Active
	Computer Forensics	8 weeks	3	edX	Active
	Social Networks	12 weeks	4	NPTEL	Active
	Strategic Performance Management	8 weeks	3	NPTEL	Active
	Compiler Design	12 Weeks	4	NPTEL	Active
	Foundations to Computer Systems Design	12 weeks	4	NPTEL	Active
	Real Time Operating System	4 weeks	1	NPTEL	Active
	Embedded System Design with ARM	8 Weeks	3	NPTEL	Active
	Information Security - 5 - Secure Systems Engineering	8 weeks	3	NPTEL	Active
	Privacy and Security in Online Social Media	8 weeks	3	NPTEL	Active
	Introduction to Blockchain Technology and application	6 weeks	3	edX	Active
	Graph Theory	12 weeks	4	NPTEL	Active
	Business Analytics for Management Decision	12 weeks	4	NPTEL	Active
	Consumer Behaviour	8 weeks	3	NPTEL	Active
	Cloud Computing Security	8 weeks	3	edX	Active
	Archived for the Present Session(Ja	nuary -June, 2020)			
	Biometrics	8 weeks	3	NPTEL	Archived
	Services Management- A practical approach	4 weeks	2	NPTEL	Archived
	Systems Engineering: Theory and Practice	8 weeks	3	NPTEL	Archive d
	Data Science for Engineers with R	8 weeks	3	NPTEL	Archive d

Chaos, Fractals and Dynamic Systems	12 weeks	4	NPTEL	Archived
Computational Thinking for Modeling and Simulation	6 weeks	3	edX	Archived
Remote Sensing and Digital Image Processing of Satellite Data	8 weeks	3	NPTEL	Archived
Fuzzy Systems and Applications	12 weeks	4	NPTEL	Archived
Blockchain Architecture Design and Use Cases	12 weeks	4	NPTEL	Archived
Robotics: Vision Intelligence & Machine Learning	12 weeks	4	edX	Archived
Becoming an Entrepreneur	6 weeks	3	edX	Archived
Hardware Security	12 Weeks	4	NPTEL	Archived
Advanced Computer Architecture	8 weeks	3	NPTEL	Archived
Neural Networks for Machine Learning	16 weeks	4	Courseer a	Archived
Compliance in Office 365: Data Governance	4 weeks	2	edX	Archived
Human Computer Interactions	8 weeks	3	NPTEL	Archived
Cloud Computing for Enterprises	8 weeks	3	edX	Archived
Introduction To Haskell Programming	8 weeks	3	NPTEL	Archived
Spatial Informatics	8 weeks	3	NPTEL	Archived
Block chain Architecture Design and Use Cases	12 weeks	4	NPTEL	Archived
Soft Skills for Business Negotiations and Marketing Strategies	12 weeks	4	NPTEL	Archived
Big Data Computing	8Weeks	3	NPTEL	Archived
Deep Learning – Part 2	8 Weeks	3	NPTEL	Archived