MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Notice

24th **January, 2019**

MOOCs for B.Tech Honours
(Applicable from the session 2018-2019)

Preamble

All India Council for Technical Education (AICTE) has introduced Model Curriculum for Bachelor of Technology programme with 160 credits in the entire programme of 4 years, and additional 20 credits will be required to be done for the degree of Bachelor of Technology with Honours. These additional 20 credits will have to be acquired with online courses (MOOCs) as per AICTE. So students will have to complete additional 20 credits through MOOCs within 4 years of time. This creates an excellent opportunity for students to acquire the necessary skill set for employability through massive online courses where the rare expertise of world famous experts from academics and industry are available. Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT,WB) has thus decided to introduce AICTE model curriculum for its B.Tech Programmes and suggest baskets for MOOCs available year wise for the four-year long B.Tech programme from the sessions 2018-2019. The basket for MOOCs will be a dynamic one, as courses keep on updating with time.

The total of 20 credits that is required to be attained for B.Tech Honours degree is distributed over four years in the following way:

For first year: 8 credits
For second year: 4 credits
For third year: 4 credits
For fourth year: 4 credits

A student of first year has to cover courses from at least three skills:

1. Computer Programing with Python / R
2. Soft skill
3. Ethics

If a student is unable to cover the credits assigned for the first year, he/she can do these courses in either of the subsequent years, but he/she has to choose the courses from the basket of MOOCs announced by MAKAUT,WB from time to time. The same rule will be applicable for the other years of the programme.

The updated basket for MOOCs for the 1st year B. Tech for the session 2018-2019 is made available herewith.

MOOC for First Year, Engineering and Technology

Sl. No.	Module	Course	Provider	Duration	Credits	Name of University / Institute	Status
1.	Ethics	Ethics in Engineering Practice	NPTEL	8 weeks	3	IIT Kharagpur	Active
2		Ethics	NPTEL	12 weeks	4		Active
3		Ethics and Law in Data and Analytics	edX	Self Paced	4	Microsoft	Active
4		A Life of Happiness and Fulfillment	Coursera	6 weeeks	2	Indian School of Business	Active
5		Introduction to Philosophy	Coursera	5 weeks	1	University of Edinburgh	Active
6		Introduction to Philosophy: God, Knowledge, and Consciousness	edX	12 weeks	4	MIT	Active
7		Ethical Leadership Through Giving Voice	Coursera	4 weeks	2	University of Virginia	Active
8	Soft Skills	Better Spoken English	NPTEL	12 week	4	IIT Madras	Active
9		English language for Competitive exams	NPTEL	12 week	4	IIT Madras	Active
10		Employment Communication A Lab based course	NPTEL	12 week	4	IIT Kharagpur	Active
11		Enhancing Soft Skills and Personality	NPTEL	8 weeks	3	IIT Kanpur	Active
12		Problem solving through Programming In C	NPTEL	8 weeks	3	IIT Kharagpur	Active
13		Speak English Professionally: In Person, Online & On the Phone	Coursera	4 weeks	1	Georgia Tech	Active
14		Psychology at Work	Coursera	6 weeks	2	University of Western Australia	Active
15		Communication in the 21st Century Workplace	Coursera	4 weeks	1	University of California	Active
16		Successful Career Development	Coursera	7 weeks	2	University System of Georgia	Active
17		Working in Teams: A Practical Guide	edX	4 weeks	1	University of Queensland	Active
18		Communication theory: bridging academia and practice	Coursera	9 weeks	3	Higher School of Economics	Active
19		Speaking Effectively	NPTEL	8 weeks	3	Indian Institute of Technology, Kharagpur	Active
20		Write Professional Emails in English	Coursera	5 weeks	2	Georgia Institute of Technology	Active
21		Technical Writing	Coursera	5 weeks	1	Moscow Institute of Physics and Technology	Active
22		Creating Innovation	Coursera	6 weeks	2	Macquarie University	Active
23		Interpersonal Communication for	Coursera	4 weeks	1	Rice University	Active

		Engineering Leaders					
24		Creating Innovation	Coursera	6 weeks	2	Macquarie University	Active
25		Take Your English Communication Skills to the Next Level	Coursera	4 weeks	1	Georgia Institute ofTechnology	Active
26		Grammar and Punctuation	Coursera	4 weeks	1	University of California	Active
27		How to Write an Essay	Coursera	5 weeks	1	University of California,Berkeley	Active
28		Conversational English Skills	edX	10 weeks	3	Tsinghua University	Active
29		Advanced Writing	Coursera	4 weeks	1	University of California,Irvine	Active
30		Speak English Professionally: In Person,Online & On the Phone	Coursera	5 weeks	1	Georgia Institute ofTechnology	Active
31		English for Science, Technology,Engineering, and Mathematics	Coursera	5 weeks	1	University of Pennsylvania	Active
32		English Composition	edX	8 weeks	3	Arizona State University	Active
33		Soft skills	NPTEL	12 Weeks	4	IIT Roorkee	Active
34		Presentation Skills: Designing Presentation Slides	Coursera	4 weeks	1	Tomsk State University	Active
35	Programming skills	Introduction to Programming with MATLAB	Courseera	9 weeks	3	Vanderbilt University	Active
36		Programming In C++	NPTEL	8 weeks	3	IIT Kharagpur	Active
37		Learn to Program: The Fundamentals	Coursera	7 weeks	2	University of Toronto	Active
38		Introduction to computer Science	edx	4-5 weeks	2	Microsoft	Active
39		Introduction to Computer Science and Programming Using Python	edX	Self Paced	4	MIT, USA	Active
40		Statistics and R	edX	Self Paced	4	Harvard University	Active
41		Introduction to Programming in C	Coursera	4 weeks	4	Duke University	Active
42		Java Programming: Solving Problems with Software	Coursera	4 weeks	4	Duke University	Active
43		Java Fundamentals for Android Development	edX	6 weeks	2	GalileoX	Active
44		Responsive Website Basics: Code with HTML, CSS, and JavaScript	Courseera	4 weeks	1	University of London Microsoft	Active
45		Introduction to HTML5	Courseera	3 weeks	1	University of Michigan	Active
46		HTML5 Coding Essentials and Best Practices	edX	6 weeks	2	W3C	Active
47		Android App Development for Beginners	edX	6 weeks	2	GalileoX	Active

48		Problem solving through Programming In C	NPTEL	12 Weeks	4	IIT Kharagpur	Active
49		Joy of computing using Python	NPTEL	12 Weeks	4	IIT Ropar	Active
50		Foundation of Data Structures	edX	6 weeks	2	IIT Bombay	Active
51		Learn to Program: The Fundamentals	Coursera	7 weeks	3	University of Toronto	Active
52		Web Design for Everybody (Basics of Web Development and Coding) Specialization	Coursera	15weeks	4	University of Michigan	Active
53		Programming Basics	edX	9 weeks	3	IIT Bombay	Active
54	Statistics	Inferential Statistics	Coursera	7 weeks	2	University of Amsterdam	Active
55		Linear Regression and Modelling	Coursera	4 weeks	1	Duke University	Active
56		Essential Statistics for Data Analysis using Excel	edX	Self Paced	3	Microsoft	Active
57		The Science of Well Being	Coursera	6 weeks	2	Yale University	Active
58		Ecology: Ecosystem Dynamics and Conservation	Coursera	5 weeks	1	American Museum of Natural History, Howard Hughes Medical Institute	Active
59	Environmental Studies	Environmental Studies: A Global Perspective	edX	Self Paced	4	Curtin University	Active
60		Science, Technology and Society	NPTEL	12 weeks	4		
61		Effective Problem-Solving and Decision- Making	Coursera	4 weeks	1	University of California	Active
62		Critical Thinking & Problem Solving	edX	3 weeks	3	Rochester Institute of Technology	Active
63		Moralities of Everyday Life	Coursera	6 weeks	2	Yale University	Active
64		Introduction to Logic	Coursera	10 weeks	3	Stanford University	Active
65	Others	The Science of Everyday Thinking	edX	12 weeks	4	University of Queensland	Active
66		Digital Security and Human Rights	edx	3 weeks	1	Amnesty InternationalX	Active
	Archived Courses for the Session(January-June, 2019)						
67		Developing Soft Skills and Personality	NPTEL	8 weeks	3	IIT Kanpur	Archived
68		Indian Fiction in English	NPTEL	12 weeks	4	IIT Madras	Archived
69		Development of Sociology in India	NPTEL	4 Weeks	1	IIT Kanpur	Archived
70		Introduction to Logic	NPTEL	12 weeks	4	IIT Kanpur	Archived
71		Developing Soft Skills and Personality	NPTEL	8 weeks	3	IIT Kanpur	Archived
72		Introduction to Problem Solving and Programming	NPTEL	12 weeks	4	IIT Kanpur	Archived