

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)
Effective for Even Semester of 2019-20(REVISED)

**MOOCS for Hons for B.Sc. Molecular Biology/
Biotechnology/Microbiology/Genetics
2nd & 3rd Year**

No.	Course Name	Duration (Weeks)	Credit	MOOCS Platform
1.	Transmedia Storytelling: Narrative worlds, emerging technologies, and global audiences	6	2	Coursera
2.	Data Science Methodology	3	1	Coursera
3.	Business Analytics & Data Mining Modelling Using R	12	3	Swayam
4.	A Life of Happiness and Fulfilment	6	2	Coursera
5.	Successful Career Development	7	2	Coursera
6.	IBM DATA SCIENCE	12	3	Coursera
7.	Data Analysis and Presentation Skills: the PwC Approach Specialization	12	3	Coursera
8.	Machine Learning with Python	12	3	Coursera
9.	Data Processing Using Python	12	3	Coursera
10.	Advanced Data Science with IBM Specialization	8	2	Coursera
11.	Data Science: Foundations using R Specialization	12	3	Coursera
12.	Python for Data Science and AI	8	2	Coursera
13.	Data Science: Statistics and Machine Learning Specialization	12	3	Coursera
14.	Python and Statistics for Financial Analysis	4	1	Coursera
15.	Applied Machine Learning in Python	12	3	Coursera
16.	Understanding Design	4	1	NPTEL
17.	Innovation by Design	4	1	NPTEL
18.	Design Technology and Innovation	4	1	NPTEL
19.	Python for Data Science	4	1	NPTEL
20.	Introduction to Machine Learning	12	3	NPTEL
21.	Machine Learning	8	2	NPTEL
22.	An Introduction to Artificial Intelligence	12	3	NPTEL
23.	Modern Application Development	12	3	NPTEL
24.	Artificial Intelligence: Knowledge Representations and Reasoning	12	3	NPTEL
25.	Design Technology and Innovation	8	2	NPTEL
26.	Understanding Design Thinking and People Centred Design	4	1	NPTEL
27.	Medical Image Analysis	4	1	NPTEL
28.	Medical Biomaterials	8	2	NPTEL
29.	Bio-Informatics: Algorithms and Applications	12	3	NPTEL
30.	Optical Spectroscopy and Microscopy: Fundamentals of optical measurements and Instrumentation	12	3	NPTEL
31.	Cell Culture Technologies	8	2	NPTEL
32.	Biostatistics and Design of Experiments	8	2	NPTEL
33.	Principles and Applications of NMR Spectroscopy	8	2	NPTEL
34.	Human Molecular Genetics	4	1	NPTEL

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35.	Bioenergetics of Life Processes	4	1	NPTEL
36.	Bioengineering: An interface with Biology and Medicine	8	2	NPTEL
37.	Introductory Mathematical Methods for Biologists	8	2	NPTEL
38.	Computational System Biology	12	3	NPTEL
39.	Thermodynamics for Biological Systems: Classical and Statistical Aspects	12	3	NPTEL