

**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 Chemical Engineering**  
**(2<sup>nd</sup> to 4<sup>th</sup> Year)**

No.	Course Name	Duration (Weeks)	Credit	Name of the Moocs websites	Link
1	Electrochemical Technology in Pollution Control	8	2	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
2	Environmental Quality Monitoring and Analysis	12	3	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
3	Optimization in Chemical Engineering	12	3	SWAYAM	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
4	Soft Nano Technology	8	2	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
5	Plastic Waste Management	8	2	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
6	Data Science for Engineers	8	2	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
7	Introduction to Industry 4.0 and Industrial Internet of Things	12	3	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
8	Data Analytics with Python	12	3	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
9	Sustainable Management of Biodiversity	12	3	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
10	Waste to Energy Conversion	8	2	Swayam	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
11	IBM DATA SCIENCE	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
12	Data Analysis and Presentation Skills: the PwC Approach Specialization	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
13	Machine Learning with Python	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
14	Data Processing Using Python	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
15	Advanced Data Science with IBM Specialization	8	2	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
16	Data Science: Foundations using R Specialization	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
17	Python for Data Science and AI	8	2	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
18	Data Science: Statistics and Machine Learning Specialization	12	3	Courera	<a href="https://www.coursera.org">https://www.coursera.org</a>

**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)**

19	Python and Statistics for Financial Analysis	4	1	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
20	Applied Machine Learning in Python	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
21	Machine Learning, ML	12	3	COURSERA	<a href="https://www.coursera.org">https://www.coursera.org</a>
22	Fuzzy Sets, Logic and System Application	12	3	NPTEL	
23	Data Analytics with Python	12	3	NPTEL	
24	Machine Learning	8	2	NPTEL	
25	Introduction to Machine Learning	12	3	NPTEL	
26	An Introduction to Artificial Intelligence	12	3	NPTEL	
27	Artificial Intelligence: Knowledge Representation and Reasoning	12	3	NPTEL	
28	Data Science for Engineers	8	2	NPTEL	
29	Electrochemical Technology in Pollution Control	8	2	NPTEL	
30	Soft Nano Technology	8	2	NPTEL	
31	Multiphase flows	8	2	NPTEL	
32	Computational Fluid Dynamics	12	3	NPTEL	
33	Process Control- Design, Analysis and Assessment	12	3	NPTEL	
34	Environmental Quality monitoring & Analysis	12	3	NPTEL	
35	Advanced Thermodynamics	12	3	NPTEL	
36	Optimization in Chemical Engineering	12	3	NPTEL	
37	Computer Aided Applied Single Objective Optimization	8	2	NPTEL	
38	Introduction to Internet of Things	12	3	NPTEL	
39	Introduction to Industry 4.0 & Industrial Internet of Things	12	3	NPTEL	