

**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 ELECTRONICS AND COMMUNICATION ENGINEERING**  
**(2<sup>nd</sup> to 4<sup>th</sup> Year)**

No.	Course Name	Duration (Weeks)	Credit	Name of the Mooc websites	Link
1.	Programming, Data Structures And Algorithms Using Python	8	2	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
2.	An Introduction To Programming Through C++	12	3	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
3.	Introduction to Internet of Things	12	3	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
4.	Learn Ethical Hacking From Scratch	3	1	UDEMY	<a href="https://www.udemy.com">https://www.udemy.com</a>
5.	A brief introduction of Micro-Sensors	4	1	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
6.	Biomedical Signal Processing	12	3	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
7.	Electrical vehicles-I	4	1	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
8.	Evolution of Air Interface towards 5G	8	2	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
9.	Micro and Nanofabrication (MEMS)	7	2	EDX	<a href="https://www.edx.org">https://www.edx.org</a>
10.	The Joy of Computing Using Python	12	3	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
14.	Introduction to Machine Learning	12	3	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
15.	Linux for Developers	4	1	COURSERA	<a href="https://www.coursera.org">https://www.coursera.org</a>
16.	Qualitative Research Methods and Research Writing	12	3	SWAYAM(NPTEL)	<a href="https://swayam.gov.in">https://swayam.gov.in</a>
17.	IBM DATA SCIENCE	12	3	Coursera	<a href="https://www.coursera.org/">https://www.coursera.org/</a>
18.	Data Analysis and Presentation Skills: the PwC Approach Specialization	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
19.	Machine Learning with Python	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
20.	Data Processing Using Python	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
21.	Advanced Data Science with IBM Specialization	8	2	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
22.	Data Science: Foundations using R Specialization	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
23.	Python for Data Science and AI	8	2	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
24.	Data Science: Statistics and Machine Learning Specialization	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
25.	Python and Statistics for Financial Analysis	4	1	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
26.	Applied Machine Learning in Python	12	3	Coursera	<a href="https://www.coursera.org">https://www.coursera.org</a>
27.	Machine Learning, ML	12	3	COURSERA	<a href="https://www.coursera.org">https://www.coursera.org</a>
28.	Nonlinear Adaptive Control	4	1	NPTEL	
29.	Evolution of Air Interface towards 5G	8	2	NPTEL	
30.	Electronics Equipment Integration and Prototype Building	8	2	NPTEL	
31.	Mathematical Methods and Techniques in Signal Processing	12	3	NPTEL	
32.	Multirate DSP	12	3	NPTEL	
33.	Optical Engineering	12	3	NPTEL	
34.	Electronic Systems for Cancer Diagnostics	12	3	NPTEL	

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35.	Analog IC Design	12	3	NPTEL	
36.	Digital IC Design	12	3	NPTEL	
37.	Spread Spectrum Communications and Jamming	12	3	NPTEL	
38.	Statistical Signal Processing	12	3	NPTEL	
39.	Fuzzy sets, Logic and Systems and Applications	12	3	NPTEL	
40.	Medical Image Analysis	4	1	NPTEL	
41.	A brief Introduction to micro sensors	4	1	NPTEL	
42.	Introduction to Internet of Things	12	3	NPTEL	
43.	Introduction to Industry 4.0 & Industrial Internet of Things	12	3	NPTEL	