

Maulana Abul Kalam Azad University of Technology, West Bengal
NEP 2020 Compliant Curriculum Structure for 1st Year B. Tech Programs
(Effective from A.Y.2026-27)

3 Weeks Induction Program with Universal Human Values							
First Year First Semester							
Sl. No.	Category	Course Code	Course Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Basic Science course	BS-M101	Mathematics –I	3	0	0	3
2	Basic Science course	BS-PH101/ BS-CH101	Physics (for CSE and allied)/ Chemistry (for others)	3	0	0	3
3	Engineering Science Course	ES-EE101	Basic Electrical and Electronics Engineering	4	0	0	4
4	Ability Enhancement Course	AEC-101	English for Communication Skills	2	0	0	2
	Total Theory			12	0	0	12
Practical/ Sessional							
1	Basic Science course	BS-PH191/ BS-CH191	Physics Lab/ Chemistry Lab	0	0	3	1.5
2	Engineering Science Courses	ES-ME191/ ES-ME192	Engineering Graphics & Design/ Workshop Practice	0	0	3	1.5
3	Engineering Science Course	ES-EE191	Basic Electrical and Electronics Engineering	0	0	4	2
4	Value Added Course	VAC-181	NCC / NSS / Yoga and Sports	0	0	6	3
5	Skill Enhancement Course	SEC-181	MOOCs (SWAYM Plus/ Future Skills Prime) or any other practical skills, hands on training, soft skills etc. offered by the Institute/ University	0	0	6	3
	Total Practical/ Sessional			0	0	22	11
Mandatory courses (Non-credit)							
1	Value Added Course	MC-181/ MC-182	Indian Knowledge System/ Indian Constitution	2	0	0	NC
Total of First Semester							23

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First Year Second Semester							
Sl. No.	Category	Course Code	Course Name	Total No. of contact hours			Credits
				L	T	P	
Theory							
1	Basic Science course	BS-M201	Mathematics –II	3	0	0	3
2	Basic Science course	BS-BI201	Biology for Engineers	2	0	0	2
3	Basic Science course	BS-PH201/ BS-CH201	Physics (for others) / Chemistry (for CSE and allied)	3	0	0	3
4	Engineering Science Courses	ES-CS201	Programming for Problem Solving	3	0	0	3
5	Value Added Course	VAC-201	Environmental Science	3	0	0	3
	Total Theory			14	0	0	14
Practical/ Sessional							
1	Basic Science course	BS-PH291/ BS-CH291	Physics Lab/ Chemistry Lab	0	0	3	1.5
2	Engineering Science Courses	ES-CS291	Programming for Problem Solving Lab	0	0	3	1.5
3	Engineering Science Courses	ES-ME291/ ES-ME292	Engineering Graphics & Design/ Workshop Practice	0	0	3	1.5
4	Ability Enhancement Course	AEC-291	Language Lab	0	0	2	1
5	Ability Enhancement Course	AEC-281	Essentials for Professional Skills	0	0	3	1.5
6	Skill Enhancement Course	SEC-282	MOOCs (SWAYM Plus/ Future Skills Prime) or any other practical skills, hands on training, soft skills etc. offered by the Institute/ University	0	0	0	3
	Total Practical/ Sessional			0	0	14	10
Mandatory courses (Non-credit)							
1	Value Added Course	MC-281/ MC-282	Indian Knowledge System/ Indian Constitution	2	0	0	NC
(Optional) Mandatory for exit with UG certificate		Students exiting the program after securing minimum 40 credits will be awarded a UG Certificate in the relevant Discipline /Subject provided they secure 4 credits in work-based vocational courses offered during the summer term or internship / Apprenticeship in addition to 6 credits from skill-based courses earned during the first and second semester.					4*
Total of Second Semester							24/28*