

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	26-BS-M101	Mathematics –I	3	0	0	3
2	Basic Science course	26-BS-PH101/ 26-BS-CH101	Physics (CSE and Allied) / Chemistry (Others)	3	0	0	3
3	Engineering Science Course	26-ES-EE101	Basic Electrical and Electronics Engineering	3	1	0	4
4	Ability Enhancement Course	26-AEC-101	English for Communication Skills	2	0	0	2
	Total Theory			11	1	0	12
Practical/ Sessional							
1	Basic Science course	26-BS-PH191/ 26-BS-CH191	Physics Lab (CSE and Allied)/ Chemistry Lab (Others)	0	0	3	1.5
2	Engineering Science Courses	26-ES-ME191/ 26-ES-ME192	Engineering Graphics & Design (CSE and Allied) / Workshop Practice (Others)	0	0	4	2
3	Engineering Science Course	26-ES-EE191	Basic Electrical and Electronics Engineering	0	0	3	1.5
4	Value Added Course	26-VAC-181	NCC / NSS / Yoga and Sports	0	0	4	2
5	Skill Enhancement Course	26-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	2	1
	Total Practical/ Sessional			0	0	16	8
Mandatory courses (Non-credit)							
1	Value Added Course	26-MC-181/ 26-MC-182	Indian Constitution(CSE and Allied)/Indian Knowledge System(Others)	2	0	0	NC
Total of First Semester							20

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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	26-BS-M201	Mathematics –II	3	0	0	3
2	Basic Science course	26-BS-BI201	Biology for Engineers	2	0	0	2
3	Basic Science course	26-BS-PH201/ 26-BS-CH201	Physics (Others) / Chemistry (CSE and Allied)	3	0	0	3
4	Engineering Science Courses	26-ES-CS201	Programming for Problem Solving and Introduction to AI	3	0	0	3
5	Value Added Course	26-VAC-201	Environmental Science	3	0	0	3
	Total Theory			14	0	0	14
Practical/ Sessional							
1	Basic Science course	26-BS-PH291/ 26-BS-CH291	Physics Lab (Others)/ Chemistry Lab (CSE and Allied)	0	0	3	1.5
2	Engineering Science Courses	26-ES-CS291	Programming for Problem Solving Lab & AI Tools	0	0	4	2
3	Engineering Science Courses	26-ES-ME291/ 26-ES-ME292	Engineering Graphics & Design (Others) / Workshop Practice (CSE and Allied)	0	0	4	2
4	Ability Enhancement Course	26-AEC-281	Language Lab	0	0	2	1
5	Ability Enhancement Course	26-AEC-282	Essentials for Professional Skills	0	0	3	1.5
6	Skill Enhancement Course	26-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	4	2
	Total Practical/ Sessional			0	0	18	10
Mandatory courses (Non-credit)							
1	Value Added Course	26-MC-281/ 26-MC-282	Indian Constitution(Others)/ Indian Knowledge System(CSE and Allied) /	2	0	0	NC
(Optional) Mandatory for exit with UG certificate		Students exiting the program will be awarded a UG Certificate in the relevant Discipline /Subject provided they qualify all papers of 1 st and 2 nd semester and secure 4 credits in work-based vocational courses offered during the summer term or internship / Apprenticeship in addition to credits from skill-based courses earned during the first and second semester.					4*
Total of Second Semester							24/28*