

**BTech Curriculum - 2017 Batch (Last Updated July 2018)****Semester 1**

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
ID1035	Independent Project	1
ID1054	Digital Fabrication	2
MA1110	Calculus-I	1
MA1220	Calculus-II	2
PH1017	Classical Physics	1
EE1010	Electric Circuits	1
EE1020	Magnetic Circuits	1
EE1110	Applied Digital Logic Design	1
EE1120	Digital System Design	1
EE1310	Signals and Communications	1
EE1320	Internet of Things (IOT)	1
BM1030	Bioengineering	1
LAxxxx/CA XXXX	LA/CA Elective	1
Total credits		15

**Semester 2**

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
EE1025	Independent Project	1
MA1130	Vector Calculus	1
MA1150	Differential Equations	1
EE1130	Analog Electronics	1
EE1510*	Matrix Analysis	1
EE1520*	Data Analytics	2
EE1210	Basic Control Theory	1
EE1330	DSP	1
EE1410	Data Structures	2
EE1140	Semiconductor Fundamentals	1
EE1150	Embedded programming	1
XXxxxx	Free Elective	1
LA/CA XXXX	LA/CA Elective	1
Total credits		15

### Semester 3

Course Code	Course Title	Credits
EE2015	EE Independent Project	1
CY1017	Environmental Chemistry - I	1
CY1031	Chemistry Lab	2
EE2193	Embedded Programming -II	1
EE2210	Transformers and DC Machines	2
EE2010	Engineering Electromagnetics	2
EE2310	Random Processes	1
EE2187	Semiconductor Fundamentals	1
EE2188	Electronic Devices and Circuits	1
EE2137	Analog Electronics II	1
EE2320	Digital Modulation Techniques	1
EE2093	Introduction to Computing	2
LA/CA	LA/CA Elective	1
Total credits		17

### Semester 4

Course Code	Course Title	Credits
EE2025	EE Independent Project	1
MA2130	Complex Variables	1
EE2220	AC Machines	2
EE2030	Network Theory and Synthesis	2
EE2189	Physics of MOS Transistors	2
EE2240	Control Systems	2
EE2370	Advanced DSP	2
EE2211	Electrical Machines Lab	2
EE1390	Intro to AI and ML	1
EE2340	Information Sciences	1
LA/CA	LA/CA Elective	1
Total credits		17

### Semester 5

Course Code	Course Title	Credits
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IDxxxx	Independent Project	1
XXxxxx	Science Elective	1
EE3210	Smart grid	1
EE3220	Power System Practice	2
EE2230	Power Electronics	2
EE3180	healthcare/ sensors / VLSI design	1
EE3010	Wave Propagation and Transmission Li	2
EE3113	Introduction to VLSI Design	2
EExxxx	Core Electives□	3
XXxxxx	Free Elective	1
LA/CA	LA/CA Elective	1
Total credits		17

### Semester 6

Course Code	Course Title	Credits
IDxxxx	Independent Project	1
XXxxxx	Science Elective	1
XXxxxx	Engineering Elective	2
EE3260	Renewable Energy and Power Systems	1
EE3120	Microprocessor and Computer Arch	2
EE2134	Analog System Design	2
EE3320	Wireless Communications	1
EExxxx	Core Electives	3
XXxxxx	Free Electives	2
LA/CA	LA/CA Elective	1
Total credits		16

### Semester 7

Course Code	Course Title	Credits
EE4015	EE Independent Project	3
XXxxxx	Science Elective	3
EExxxx	Core Electives	3
XXxxxx	Free Electives	4
Lxxxx	Liberal Arts Elective	1
CAxxxx	Creative Arts Elective	1

Total credits

15

**Semester 8**

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
EE4025	EE Independent Project	3
XXxxxx	Science Elective	0
EExxxx	Core Elective	6
XXxxxx	Free Elective	3
IDXXXX	(LA)Professional Ethics	1
CAxxxx	Creative Arts Electives	1
Total credits		14

**Grand Total All semesters****126**