

## BTech Curriculum - 2018 Batch (Last Updated July 2018)

### Semester 1

Course Code	Course Title	Credits
ID1035	Independent Project	1
ID1054	Digital Fabrication	2
MA1110	Calculus-I	1
MA1220	Calculus-II	2
EP1017	Classical Physics	1
EE1010	Electric Circuits	1
EE1020	Magnetic Circuits	1
EE1110	Applied Digital Logic Design	1
EE1083	Introduction to Computing	2
EE1350	Signals and Systems	1
ID1350	Internet of Things (IOT)	1
ID1393	Introduction to Drones	1
BM1030	Bioengineering	1
LA/CA	LA/CA Elective	1
<b>Total credits</b>		<b>17</b>

### Semester 2

Course Code	Course Title	Credits
EE1025	Independent Project	1
MA1130	Vector Calculus	1
MA1150	Differential Equations	1
EE1040*	Matrix Analysis	1
EE1370*	Data Analytics	2
EE1210	Basic Control Theory	1
EE1390	Intro to AI and ML	1
EE1120	Digital System Design	1
EE1360	Communication Systems	1
EE1030	Network Theory and Synthesis	2
EE1193	Introduction to Hardware Description Languages	2
XXxxxx	Free Elective	1
LA/CA	LA/CA Elective	1
<b>Total credits</b>		<b>16</b>

### Semester 3

Course Code	Course Title	Credits
EE2015	EE Independent Project	1
CY1017	Environmental Chemistry - I	1
CY1031	Chemistry Lab	2
EE2350	DSP	1
EE2210	Transformers and DC Machines	2
EE2010	Engineering Electromagnetics	2
EE2310	Random Processes	1
EE2133	Analog Electronics	2
EE2187	Semiconductor Fundamentals	1
EE2188	Electronic Devices and Circuits	1
EE2320	Digital Modulation Techniques	1
LA/CA	LA/CA Elective	1
<b>Total credits</b>		<b>16</b>

### Semester 4

Course Code	Course Title	Credits
EE2025	EE Independent Project	1
XXxxxx	Science Elective	1
MA2130	Complex Variables	1
EE2220	AC Machines	2
EE2134	Analog System Design	2
EE2189	Physics of MOS Transistors	2
EE2240	Control Systems	2
EE2370	Advanced DSP	2
EE2211	Electrical Machines Lab	2
EE2340	Information Sciences	1
LA/CA	LA/CA Elective	1
<b>Total credits</b>		<b>17</b>

### Semester 5

Course Code	Course Title	Credits
IDxxxx	Independent Project	1
XXxxxx	Science Elective	1
EE3210	Smart grid	1
EE3220	Power System Practice	2
EE3220	Power Electronics	2
EE3010	Wave Propagation and Transmission Lines	2
EE3113	Introduction to VLSI Design	2
EE3013	C and Data Structures□	2
EExxxx	Core Electives	3
LA/CA	LA/CA Elective	1
<b>Total credits</b>		<b>17</b>

### 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
EE3320	Wireless Communications	1
EExxxx	Core Electives	3
XXxxxx	Free Electives	3
LA/CA	LA/CA Elective	1
<b>Total credits</b>		<b>15</b>

### Semester 7

Course Code	Course Title	Credits
EE4015	EE Independent Project	3
XXxxxx	Science Elective	3
EExxxx	Core Electives	3
EE4013	C+DS	2
EE3180	healthcare/ sensors / VLSI design	1
XXxxxx	Free Electives	2
LAXxxx	Liberal Arts Elective	1

