

Curriculum for BTech 2019 Batch of Dept. of EE

Semester 1				
Course Code	Course Title	Credits	Category	Comments
ID1035	Independent Project	1	Basic Engineering Skills	Done
ID1054	Digital Fabrication	2	Basic Engineering Skills	Done
MA1110	Calculus I	1	Basic Sciences	Done
MA1220	Calculus II -Multivariable Calculus	1	Basic Sciences	Done
MA1230	Series of Functions	1	Basic Sciences	Done
EP1017	Classical Physics	1	Basic Sciences	Done
EE1010	Electric Circuits	1	Basic Engineering Skills	Done
EE1020	Magnetic Circuits	1	Basic Engineering Skills	Done
EE1110	Applied Digital Logic Design	1	Basic Engineering Skills	Done
EE1083	Introduction to Computing	2	Basic Engineering Skills	Done
EE1350	Signals and Systems	1	Basic Engineering Skills	Done
ID1350	Internet of Things (IOT)	1	Department Electives	Done
ID1393	Introduction to Drones	1	Department Electives	Done
BM1030	Bioengineering	1	Basic Sciences	Done
LA/CA	LA/CA Elective	1	LA/CA	Done
Total credits		17		
Semester 2				
Course Code	Course Title	Credits	Category	Comments
EE1025	Independent Project	1	Department Core/Lab	Done
MA1130	Vector Calculus	1	Basic Sciences	Done
MA1150	Differential Equations	1	Basic Sciences	Done
EE1040*	Matrix Analysis	1	Basic Engineering Skills	Done
EE1370*	Data Analytics	2	Basic Engineering Skills	Done
EE1210	Basic Control Theory	1	Basic Engineering Skills	Done
EE1390	Intro to AI and ML	1	Department Core	Done

EE1120	Digital System Design	1	Department Core	Done
EE1360	Communication Systems	1	Department Core	Done
EE1050	Network Theory and Synthesis	2	Department Core	Done
EE1193	Introduction to Hardware Description Languages	2	Department Core	Done
XXxxxx	Free Elective	1	Free Electives	Done
LA/CA	LA/CA Elective	1	LA/CA	Done
Total credits		16		

Semester 3			
Course Code	Course Title	Credits	
CY1030	Environmental Chemistry - II	2	Basic Sciences
EE2310	Random Processes	1	Department Core
EE2400	Analog Electronics	3	Department Core
EE2103	Semiconductor Device Fundamentals	3	Department Core
EE2320	Digital Modulation Techniques	1	Department Core
EE2101	Control systems	3	Department Core
EE2301	Electronic devices and circuits lab	2	Department Core/Lab
Total credits		15	
Semester 4			
Course Code	Course Title	Credits	Category
EE2401	Analog Lab	2	Department Core/Lab
MA2130	Complex Variables	1	Basic Sciences
EE2200	Electrical Machines	3	Department Core
EE1204	Engineering Electromagnetics	2	Department Core
EE2600	Power system analysis	3	Department Core
EE2800	DSP	3	Department Core
EE2340	Information Sciences	1	Department Core

EE3400	Microprocessor and Computer Arch	2	Department Core
Total credits		17	
Semester 5			
Course Code	Course Title	Credits	Category
EE3210	Smart grid	1	Department Core
EE3501	Power Electronics	3	Department Core
EE3302	Electromagnetic wave propagation	3	Department Core
EE3301	Introduction to VLSI Design	2	Department Core
ID2230	Data Structures & Applications	3	Basic Engineering Skills
EE3500	Electrical Machines Lab	2	Department Core/Lab
EE3300	Analog circuits	3	Department Core
Total credits		17	
Semester 6			
Course Code	Course Title	Credits	Category
EE2801	DSP lab	2	Department Core/Lab
XXxxxx	Free Elective	6	Free Electives
EExxxx	Core Electives (Can be converted to internship)	6	Department Electives
LAxxxx	LA/CA Elective	1	LA/CA
Total credits		15	
Semester 7			
Course Code	Course Title	Credits	Category
EExxxx	Core Electives	6	Department Electives
XXxxxx	Science Elective	3	Basic Sciences
XXxxxx	Free Electives	3	Free Electives
LAxxxx	LA/CA Elective	2	LA/CA
Total		14	

credits			
Semester 8			
Course Code	Course Title	Credits	Category
EExxxx	Core Elective	6	Department Electives
XXxxxx	Free Elective	2	Free Electives
LAxxxx	Ethics & Values	1	LA/CA
XXxxxx	Science Electives	2	Basic Sciences
LAxxxx	LA/CA Electives	3	LA/CA
Total credits		14	
Program Credits: 125			