1. MTech Curriculum (Communications & Signal Processing Stream)

Course number	Semester 1	Credits	Course Type
EE 5817	Random Variables and Stochastic Processes	3	Department Core
EE 5837	Principles of Digital Communication	3	Department Core
EE 5807	Advanced Digital Signal Processing	2	Department Core
EExxxx	Department softcore (basket below)	3	Department core
SS xxxx	English communication	1	Soft skills
EE 5801	Communications Lab	1	Labs
SS 5901	Industry lectures*	0	Soft skills
	Total	**13**	
	Semester 2		
EE 5803	FPGA Lab	1	Labs
EE 5802	DSP Lab	1	Labs
EE xxxx	Department Electives	6	Department Electives
EExxxx	Department softcore	3	Department core
FExxxx	Free Elective	1	Free Electives
SS 5901	Industry lectures*	0	Life skills
	Total	**12**	
	Semester 3		
EE 6901	MTech Thesis stage - I	12	Thesis
SS 5901	Industry lectures*	0	Soft Skills
	Total	**12**	
	Semester 4		
EE 6902	MTech Thesis stage - II	12	Thesis
SS 5901	Industry lectures*	1	Soft skills
	Total	**13**	

Softcore Basket

Softcore basket(at least 6 credits) Students can pick any 6 credits of these core courses, depending on their thesis topic or interest			
		Credits	Prerequisites
EE5609	Matrix theory	3	

EE5610 (OR) 5601+5602+5603	Pattern Recognition & Machine learning	3 (OR) 1+1+1	EE5817
EE5847	Information theory	1	EE5817
EE5390	Source coding	1	EE5817, EE5837
EE6317	Channel coding	1	EE5817, EE5837
EE5606	Convex optimization	3	EE5609, EE5817
EE xxxx	Communication networks	3	EE5837
EE5342	Detection theory	1	EE5817, EE5609
EE5357	Estimation theory	1	EE5817, EE5609
EExxxx	Wireless communications	3	EE5837, EE5817
EE6350	Multiple antenna systems	3	EE5817, EE5837

Summary

Course Type	Credits
Department Core	14
Department Electives	6
Labs	3
Soft skills	2
Free Electives	1
Thesis	24
Total	50