

B. Tech – ECE Pos/PSOs Attainment

POs/ PSOs ATTAINMENT LEVEL 2018-2019

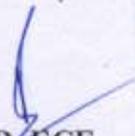
Code	Subject	Program Outcomes (PO's)												Program Specific Outcomes (PSO's)			
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
I B. Tech-I Semester																	
EN104HS	Professional Communication in English	-	-	-	-	-	-	-	-	-	1.94	1.94	1.94	1.94	0.97	1.94	2.91
MA101BS	Mathematics-I	2.85	1.90	1.90	-	-	1.90	-	-	-	-	-	-	-	2.85	1.90	0.95
PH103BS	Engineering Physics-I	1.90	1.90	1.90	2.85	-	-	-	-	-	-	-	-	-	1.90	1.90	-
CH102BS	Engineering Chemistry	1.92	1.92	1.92	1.92	-	1.92	0.96	-	-	-	-	-	-	1.92	1.92	-
ME105ES	Engineering Mechanics	1.90	1.90	1.90	1.90	-	0.95	-	-	-	-	-	-	0.95	0.95	0.95	-
EE106ES	Basic Electrical and Electronics Engineering	1.90	2.85	2.85	1.90	2.85	-	-	-	-	0.95	0.95	0.95	1.90	0.95	0.95	
EN107HS	English Language Communication Skills Lab	-	0.97	-	0.97	0.97	0.97	-	-	0.97	1.94	-	1.94	-	-	-	
ME108ES	Engineering Workshop	1.94	1.94	2.91	1.94	1.94	0.97	-	-	1.94	-	-	1.94	-	-	-	
I B. Tech II Semester																	
MA202BS	Mathematics-II	2.12	1.41	1.41	-	-	1.41	-	-	-	-	-	-	-	2.12	1.41	0.71
MA203BS	Mathematics-III	2.84	1.89	1.89	-	-	1.89	-	-	-	-	-	-	-	2.84	1.89	0.95
PH201BS	Engineering Physics-II	1.89	1.89	1.89	2.84	-	-	-	0.95	-	-	-	-	-	1.89	1.89	-
CS204ES	Computer Programming in C	1.41	2.12	1.41	1.41	1.41	-	-	-	0.71	-	-	-	-	1.41	2.12	2.12
ME205ES	Engineering Graphics	1.93	1.93	1.93	1.93	-	0.97	-	-	-	-	-	-	0.97	0.97	0.97	-
CS208ES	Computer Programming in C Lab	1.93	1.93	2.90	1.93	1.93	-	-	-	1.93	-	-	1.93	1.93	2.90	2.90	
PH207BS	Engineering Physics Lab	1.93	1.93	1.93	1.93	1.93	-	-	-	-	-	-	-	1.93	-	-	

Code	Subject	Program Outcomes (PO's)												Program Specific Outcomes (PSO's)		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CH206BS	Engineering Chemistry Lab	1.93	1.93	1.93	1.93	1.93	-	-	-	-	-	-	-	-	-	-
II B. Tech-I Semester																
MA301BS	Mathematics-IV	2.49	1.40	1.71	1.40	1.40	-	1.40	-	1.40	0.93	1.40	1.87	2.49	1.4	0.93
EC304ES	Signals and Stochastic Process	1.89	1.78	1.78	1.78	1.78	1.30	1.07	-	1.07	1.07	1.78	0.71	1.89	1.78	1.07
EC305ES	Network Analysis	2.37	2.52	2.05	1.74	1.66	0.95	-	-	1.42	-	-	1.74	2.21	2.52	2.37
EC303ES	Electrical Technology	1.24	1.56	0.93	0.93	-	-	-	-	2.80	-	2.49	0.93	2.33	1.4	1.4
EC302ES	Analog Electronics	1.21	0.68	1.13	1.13	1.13	0.83	-	-	1.13	-	1.13	1.13	0.76	1.13	1.13
EC306ES	Electronic Devices and Circuits Lab	1.95	1.95	1.95	1.95	-	-	-	-	1.95	1.95	-	-	1.95	-	1.95
EC307ES	Basic Simulation Lab	2.92	2.92	2.92	2.92	2.92	-	-	-	1.95	1.95	-	0.97	2.92	0.97	0.97
EC308ES	Basic Electrical Engineering Lab	1.95	1.95	0.97	0.97	-	-	-	-	-	-	-	-	-	-	-
MC300ES	Environmental Science and Technology	2.83	2.83	2.83	-	-	-	2.83	-	-	-	-	-	-	-	-
II B. Tech II Semester																
EC402ES	Pulse and Digital Circuits	2.09	2.09	2.09	2.09	2.09	1.16	-	-	1.16	-	1.39	1.16	1.39	2.09	2.09
EC401ES	Switching Theory and Logic Design	1.89	1.78	1.78	1.78	1.78	1.30	-	-	1.78	1.07	-	1.07	1.18	1.78	1.78
EC405ES	Analog Communications	2.40	2.40	2.40	2.40	2.40	1.76	1.60	-	1.44	2.24	1.76	1.76	2.40	2.40	2.40
EE404ES	Control Systems	1.92	1.80	1.08	1.80	1.80	1.32	1.08	-	1.80	-	1.80	1.80	1.92	1.08	1.08
SM405MS	Business Economics and Financial Analysis	-	1.80	1.80	1.80	-	1.80	1.80	-	-	1.80	1.80	1.08	-	-	0.72

Code	Subject	Program Outcomes (PO's)												Program Specific Outcomes (PSO's)		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
EC406ES	Analog Communications Lab	2.94	2.94	2.94	2.94	2.94	-	-	-	1.96	0.98	-	2.94	2.94	2.94	2.94
EC408ES	Analog Electronics Lab	1.96	1.96	1.96	1.96	1.96	-	-	-	1.96	1.96	-	-	1.96	1.96	1.96
EC407ES	Pulse and Digital Circuits Lab	2.94	2.94	2.94	1.96	2.94	-	-	-	1.96	0.98	-	-	1.96	2.94	0.98
MC400HS	Gender Sensitization Lab	-	-	-	-	-	2.94	-	-	-	-	2.94	2.94	-	-	-
III B. Tech I Semester																
A50217	Control Systems Engineering	2.54	2.38	1.43	2.38	2.38	-	-	-	1.53	-	1.59	1.43	2.54	1.43	1.43
A50516	Computer Organization and Operating Systems	1.89	1.89	2.05	2.27	1.58	-	-	-	-	-	-	0.95	2.52	2.52	1.89
A50418	Antennas and Wave Propagation	1.42	1.42	1.42	-	-	-	-	-	-	-	-	0.71	1.42	1.42	1.42
A50422	Electronic Measurements and Instrumentation	2.56	2.40	2.40	2.40	2.40	-	-	-	1.44	-	1.12	1.60	1.92	1.76	2.08
A50408	Analog Communications	2.40	2.40	2.40	2.40	2.40	-	-	-	-	-	1.44	1.28	2.40	2.40	2.40
A50425	Linear and Digital IC Applications	2.18	2.49	2.18	1.71	0.93	0.93	0.93	-	-	-	-	1.87	2.18	1.71	0.93
A50482	Analog Communications Lab	2.92	2.92	2.92	2.92	2.92	-	-	-	1.95	0.97	-	2.92	2.92	2.92	2.92
A50488	IC Applications and HDL Simulation Lab	1.95	1.95	2.93	2.93	1.95	-	1.95	-	2.93	2.93	-	-	2.93	2.93	1.95
III B. Tech II Semester																
A60010	Managerial Economics and Financial Analysis	-	2.33	2.33	2.33	-	2.33	2.33	-	-	2.33	2.33	1.40	-	-	0.93
A60018	Human Values and Professional Ethics	-	2.38	2.38	2.38	-	2.38	2.38	-	-	2.38	2.38	1.43	-	-	0.95
A60420	Digital Communications	1.89	2.26	2.36	2.36	2.36	-	-	-	-	1.57	1.57	1.42	1.89	2.83	1.89
A60432	VLSI Design	1.44	2.40	2.88	2.64	2.40	2.40	-	-	1.92	-	-	-	1.73	1.92	2.08

Code	Subject	Program Outcomes (PO's)												Program Specific Outcomes (PSO's)		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
A60430	Microprocessors and Microcontrollers	1.15	1.15	1.15	1.15	1.15	1.15	0.77	1.15	1.15	0.77	0.69	0.77	1.15	1.15	1.15
A60421	Digital Signal Processing	1.87	1.75	1.75	1.75	1.75	1.75	1.75	-	1.05	1.75	1.05	1.75	1.75	1.05	1.75
A60494	Microprocessors and Microcontrollers Lab.	1.96	1.96	1.96	2.94	2.94	-	-	-	1.96	0.98	-	1.96	1.96	2.94	1.96
A60493	Digital Signal Processing Lab	1.96	2.94	2.94	1.96	2.94	-	0.98	0.98	1.96	-	-	-	2.94	2.94	2.94
IV B. Tech I Semester																
A70014	Management Science	-	2.09	2.66	2.47	-	-	-	-	-	-	1.52	1.33	-	-	0.95
A70442	Microwave Engineering	1.20	1.01	1.29	1.20	1.27	-	-	-	-	-	1.20	1.20	-	0.84	0.46
A70515	Computer Networks	1.52	2.38	1.66	2.09	2.85	-	-	-	-	1.90	1.90	1.27	-	2.38	2.38
A70434	Cellular and Mobile Communications	2.94	2.29	1.96	2.29	1.80	2.12	-	-	0.98	1.96	1.47	1.96	2.70	2.35	2.16
A70436	Digital Image Processing	2.07	-	-	-	2.07	-	-	-	1.04	-	-	-	1.52	1.38	-
A70440	Embedded Systems Design	1.92	2.40	2.40	-	2.24	-	-	-	2.40	2.50	1.92	2.24	2.40	2.30	1.92
A70086	Advanced Communication Skills Lab	-	0.93	-	0.93	0.93	0.93	-	-	0.93	1.86	-	1.86	-	-	-
A70499	Microwave Engineering and Digital Communications Lab	1.98	1.98	2.97	-	0.00	0.99	0.99	-	1.98	0.99	-	1.98	2.97	2.97	2.97
IV B. Tech II Semester																
A80452	Satellite Communications	1.53	1.53	1.84	0.92	2.30	-	-	-	-	1.84	1.07	2.15	1.84	2.45	1.84
A80450	Radar Systems	2.17	2.48	2.17	2.17	2.33	-	-	-	1.16	1.16	1.16	1.40	2.33	2.23	1.86
A80437	DSP Processors and Architectures	2.12	1.57	2.35	1.69	1.69	-	-	-	-	1.88	0.94	1.57	-	1.57	0.94

Code	Subject	Program Outcomes (PO's)												Program Specific Outcomes (PSO's)		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
A80087	Industry Oriented Mini Project	2.94	2.94	2.94	2.94	2.94	0.98	0.98	-	1.96	0.98	1.96	1.96	2.94	2.94	2.94
A80089	Seminar	2.95	2.95	2.95	2.95	2.95	0.98	0.98	-	0.98	-	-	2.95	1.97	0.98	2.95
A80088	Major Project	2.75	2.75	2.75	2.75	2.75	0.92	0.92	-	1.83	0.92	1.83	1.83	2.75	2.75	2.75
A80090	Comprehensive Viva	2.94	2.94	2.94	2.94	2.94	0.98	0.98	-	0.98	-	-	-	0.98	0.98	1.96
	Average	2.11	2.08	2.14	2.05	2.06	1.44	1.40	1.03	1.62	1.59	1.60	1.61	2.05	1.95	1.76
PO Attainment Level		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
CO Attainment		2.1	2.06	2.12	2.04	2.05	1.49	1.47	1.13	1.65	1.62	1.64	1.64			
Direct Attainment		2.11	2.08	2.14	2.05	2.06	1.44	1.4	1.03	1.62	1.59	1.6	1.61			
Indirect Attainment		2.00	1.92	1.95	1.99	2.00	1.97	2.07	2.00	1.91	1.85	1.99	1.93			
PSO Attainment Level		PSO1	PSO2	PSO3												
CO Attainment		2.04	1.95	1.78												
Direct Attainment		2.05	1.95	1.76												
Indirect Attainment		1.91	1.91	1.97												


HOD, ECE

B. Tech – ECE / CO Attainment / Attainment Year 2018-2019		
Code	Subject	CO Attainment
I B. Tech-I Semester		
EN104HS	Professional Communication in English	2.91
MA101BS	Mathematics-I	2.85
PH103BS	Engineering Physics-I	2.85
CH102BS	Engineering Chemistry	2.88
ME105ES	Engineering Mechanics	2.85
EE106ES	Basic Electrical and Electronics Engineering	2.85
EN107HS	English Language Communication Skills Lab	2.91
ME108ES	Engineering Workshop	2.91
I B. Tech I Semester		
MA202BS	Mathematics-II	2.12
MA203BS	Mathematics-III	2.84
PH201BS	Engineering Physics-II	2.84
CS204ES	Computer Programming in C	2.90
ME205ES	Engineering Graphics	2.90
CS208ES	Computer Programming in C Lab	2.90
PH207BS	Engineering Physics Lab	2.90
CH206BS	Engineering Chemistry Lab	2.90
II B. Tech-I Semester		
MA301BS	Mathematics-IV	2.8
EC304ES	Signals and Stochastic Process	2.13
EC305ES	Network Analysis	2.84
EC303ES	Electrical Technology	2.8
EC302ES	Analog Electronics	1.36
EC306ES	Electronic Devices and Circuits Lab	2.92
EC307ES	Basic Simulation Lab	2.92
EC308ES	Basic Electrical Engineering Lab	2.92
MC300ES	Environmental Science and Technology	2.83
II B. Tech II Semester		

Code	Subject	CO Attainment
EC402ES	Pulse and Digital Circuits	2.09
EC401ES	Switching Theory and Logic Design	2.13
EC405ES	Analog Communications	2.88
EE404ES	Control Systems	2.16
SM405MS	Business Economics and Financial Analysis	2.16
EC406ES	Analog Communications Lab	2.94
EC408ES	Analog Electronics Lab	2.94
EC407ES	Pulse and Digital Circuits Lab	2.94
MC400HS	Gender Sensitization Lab	2.94
III B. Tech I Semester		
A50217	Control Systems Engineering	2.86
A50516	Computer Organization and Operating Systems	2.84
A50418	Antennas and Wave Propagation	2.13
A50422	Electronic Measurements and Instrumentation	2.88
A50408	Analog Communications	2.88
A50425	Linear and Digital IC Applications	2.8
A50482	Analog Communications Lab	2.92
A50488	IC Applications and HDL Simulation Lab	2.93
III B. Tech II Semester		
A60010	Managerial Economics and Financial Analysis	2.8
A60018	Human Values and Professional Ethics	2.86
A60420	Digital Communications	2.83
A60432	VLSI Design	2.88
A60430	Microprocessors and Microcontrollers	1.38
A60421	Digital Signal Processing	2.1
A60494	Microprocessors and Microcontrollers Lab	2.94
A60493	Digital Signal Processing Lab	2.94
IV B. Tech I Semester		
A70014	Management Science	2.85
A70442	Microwave Engineering	1.38

Code	Subject	CO Attainment
A70515	Computer Networks	2.85
A70434	Cellular and Mobile Communications	2.94
A70436	Digital Image Processing	2.07
A70440	Embedded Systems Design	2.88
A70086	Advanced Communication Skills Lab	2.79
A70499	Microwave Engineering and Digital Communications Lab	2.97
IV B. Tech II Semester		
A80452	Satellite Communications	2.76
A80450	Radar Systems	2.79
A80437	DSP Processors and Architectures	2.82
A80087	Industry Oriented Mini Project	2.94
A80089	Seminar	2.95
A80088	Major Project	2.75
A80090	Comprehensive Viva	2.94


HOD, ECE

M. Tech – VLSI POs/PSOs Attainment							
POs/ PSOs ATTAINMENT LEVEL 2018-2019							
Code	Subject	Program Outcomes (PO's)					
		PO1	PO2	PO3	PO4	PO5	PO6
I M. Tech-I Semester							
5457AA	Advanced Digital System Design	1.53	1.57	1.39	1.11	1.11	1.74
5457AB	Device Modeling	1.89	1.42	2.12	2.36	2.26	1.89
5457AC	CMOS Analog Integrated Circuit Design	2.08	1.11	1.85	2.08	1.11	1.85
5457AD	VLSI Technology	2.12	1.06	0.99	1.98	1.06	0.99
5457AH	Embedded System Design	2.12	2.12	2.12	1.98	2.12	2.12
5402AZ	Renewable Energy Systems	2.45	2.45	2.26	2.26	1.51	2.26
545702	Seminar	2.93	2.93	2.93	2.93	2.93	2.93
545701	Digital IC Design Lab	2.97	2.97	2.97	2.97	2.97	2.97
I M. Tech-II Semester							
5457AN	Low Power VLSI Design	2.84	1.42	1.33	2.65	1.42	1.33
5457AP	Design For Testability	1.89	1.42	2.12	2.36	2.26	1.89
5457AQ	CMOS Mixed Signal Circuit Design	2.78	1.48	2.47	2.78	1.48	2.47
5457AU	Verilog Hardware Description Language	2.08	2.13	1.89	1.51	1.51	2.37
5457AV	RF IC Design	1.40	1.40	1.40	1.31	1.40	1.40
5405BZ	Machine Learning	2.44	2.44	2.26	2.26	1.50	2.26
545704	Seminar - II	2.93	2.93	2.93	2.93	2.93	2.93
545703	Analog IC Design Lab	2.93	2.93	2.93	2.93	2.93	2.93

Code	Subject	Program Outcomes (PO's)					
		PO1	PO2	PO3	PO4	PO5	PO6
Average		2.34	1.99	2.12	2.28	1.91	2.14
PO Attainment Level							
CO Attainment		2.32	1.98	2.11	2.27	1.93	2.14
Direct Attainment		2.34	1.99	2.12	2.28	1.91	2.14
Indirect Attainment		2.12	1.92	2.04	2.19	2.08	2.10


HOD, ECE

M. Tech – VLSI / CO Attainment / Attainment Year 2018-2019		
Code	Subject	CO Attainment
I M. Tech-I Semester		
5457AA	Advanced Digital System Design	2.09
5457AB	Device Modeling	2.83
5457AC	CMOS Analog Integrated Circuit Design	2.08
5457AD	VLSI Technology	2.12
5457AH	Embedded System Design	2.12
5402AZ	Renewable Energy Systems	2.83
545702	Seminar	2.93
545701	Digital IC Design Lab	2.97
I M. Tech-II Semester		
5457AN	Low Power VLSI Design	2.84
5457AP	Design For Testability	2.83
5457AQ	CMOS Mixed Signal Circuit Design	2.47
5457AU	Verilog Hardware Description Language	2.84
5457AV	RF IC Design	1.4
5405BZ	Machine Learning	2.82
545704	Seminar - II	2.93
545703	Analog IC Design Lab	2.93


HOD, ECE

M. Tech – WMC POs/PSOs Attainment

POs/ PSOs ATTAINMENT LEVEL 2018-2019

Code	Subject	Program Outcomes (PO's)					
		PO1	PO2	PO3	PO4	PO5	PO6
I M. Tech-I Semester							
5465AA	Wireless Communications & Networks	2.00	2.25	2.33	1.60	1.60	2.50
5465AB	Random Processes and Time Series Analysis	1.80	2.00	2.25	2.50	2.40	2.00
5465AC	Advanced Data Communications	2.41	1.67	2.47	2.78	1.48	2.47
5465AF	Coding Theory and Techniques	1.82	1.05	0.98	1.93	1.05	0.98
5465J	TCP/IP Internetworking	2.71	2.71	2.71	2.53	2.71	2.71
5402AZ	Renewable Energy Systems	2.60	2.60	2.40	2.40	1.60	2.40
546502	Seminar	2.91	2.91	2.91	2.91	2.91	2.91
546501	Wireless Communications and Networks Lab	2.93	2.93	2.93	2.93	2.93	2.93
I M. Tech-II Semester							
5465AN	Advanced Communication Systems	2.00	2.33	2.33	1.75	1.60	2.50
5465AP	Spread Spectrum Communications	2.08	2.13	2.21	2.37	2.27	1.89
5465AQ	Adhoc Wireless Networks	2.40	2.00	2.67	3.00	1.80	2.67
5465AT	Wireless LANs AND PANs	2.60	1.50	1.40	2.75	1.50	1.40
5465AX	3G Networks	2.80	2.25	2.50	2.80	2.67	2.67
5405BZ	Machine Learning	2.60	2.60	2.40	2.40	1.60	2.40
546504	Seminar-II	2.92	2.92	2.92	2.92	2.92	2.92
546503	Advanced Communications Lab	2.92	2.92	2.92	2.92	2.92	2.92
	Average	2.47	2.30	2.40	2.53	2.12	2.39

PO Attainment Level

CO Attainment	2.43	2.26	2.36	2.48	2.12	2.35
Direct Attainment	2.47	2.3	2.4	2.53	2.12	2.39
Indirect Attainment	2.02	1.86	2.01	2.05	2.07	1.96

HOD, ECE

M. Tech – WMC / CO Attainment / Attainment Year 2018-2019		
Code	Subject	CO Attainment
I M. Tech-I Semester		
5465AA	Wireless Communications & Networks	2.8
5465AB	Random Processes and Time Series Analysis	1.4
5465AC	Advanced Data Communications	2.78
5465AF	Coding Theory and Techniques	2.1
5465J	TCP/IP Internetworking	2.71
5402AZ	Renewable Energy Systems	2.784
546502	Seminar	2.91
546501	Wireless Communications and Networks Lab	2.93
I M. Tech-II Semester		
5465AN	Advanced Communication Systems	1.38
5465AP	Spread Spectrum Communications	2.84
5465AQ	Adhoc Wireless Networks	2.83
5465AT	Wireless LANs AND PANs	2.85
5465AX	3G Networks	2.77
5405BZ	Machine Learning	1.41
546504	Seminar-II	2.92
546503	Advanced Communications Lab	2.92

HOD, ECE