

**Provide results of evaluation of each PO & PSO**

*Program shall set Program Outcome attainment levels for all POs & PSOs.*

**Year 2019-20**

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course – PO & PSO matrix as indicated).

Sr. No.	Semester	Code No.	Paper	GROUP	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
1	III	ETMA-201	Applied Mathematics – III	E123	2.33	2.33	1.55	0.77	2.33	0.77	-	-	0.77	-	-	1.55	2.33	2.33	1.55	
				E456	2.33	2.33	1.55	0.77	2.33	0.77	-	-	0.77	-	-	1.55	2.33	2.33	1.55	
				E789	2.33	2.33	1.55	0.77	2.33	0.77	-	-	0.77	-	-	1.55	2.33	2.33	1.55	
2	III	ETEC-203	Analog Electronics - I	E123	2	3	1.75	2	2	1	-	-	1.5	3	1	3	2	2	1.25	
				E456	2	3	1.75	2	2	1	-	-	1.5	3	1	3	2	2	1.25	
				E789	2	3	1.75	2	2	1	-	-	1.5	3	1	3	2	2	1.25	
3	III	ETEC-205	Switching Theory and Logic Design	E123	1.466	2.016	1.283	1.466	1.283	1.466	-	2.2	2.2	1.833	1.1	1.833	2.2	2.2	1.466	
				E456	2	2.75	1.75	2	1.75	1	-	3	2.25	2.5	1.5	2.5	3	3	2	
				E789	2	2.75	1.75	2	1.75	1	-	3	2.25	2.5	1.5	2.5	3	3	2	
4	III	ETEC-207	Electronic Instruments and Measurements	E123	1	1	0.7	1.1	0.67	0.8	0.6	0.4	0.6	0.7	0.6	0.9	1.2	1	0.7	
				E456	1	1	0.7	1.1	0.67	0.8	0.6	0.4	0.6	0.7	0.6	0.9	1.2	1	0.7	
				E789	1	1	0.7	1.1	0.67	0.8	0.6	0.4	0.6	0.7	0.6	0.9	1.2	1	0.7	
5	III	ETCS-209	Data Structures	E123	1	2.67	1.33	1.67	2	-	-	2	2	1	-	1	3	2.25	3	
				E456	1	2.67	1.33	1.67	2	-	-	2	2	1	-	1	3	2.25	3	
				E789	1	2.67	1.33	1.67	2	-	-	2	2	1	-	1	3	2.25	3	
6	III	ETEC-211	Signals and Systems	E123	1	1	1	1	1	1	-	0.67	1	1	-	1	1	1	0.42	
				E456	1	1	1	1	1	1	-	0.67	1	1	-	1	1	1	0.42	
				E789	1	1	1	1	1	1	-	0.67	1	1	-	1	1	1	0.42	
7	III	ETEC-251	Analog Electronics Lab	E123	2	3	1.75	2	2	1	-	-	1.5	3	1	3	1.75	2	1.5	
				E456	2	3	1.75	2	2	1	-	-	1.5	3	1	3	1.75	2	1.5	
				E789	2	3	1.75	2	2	1	-	-	1.5	3	1	3	1.75	2	1.5	
8	III	ETEC-253	Switching Theory and Logic Design Lab	E123	2	3	3	3	3	3	2	3	3	3	2.25	2.25	3	3	2	
				E456	2	3	3	3	3	3	2	3	3	3	2.25	2.25	3	3	2	
				E789	2.933333333	2.933333333	2.933333333	2.933333333	2.933333333	2.933333333	-	1.955555556	2.933333333	2.933333333	-	2.933333333	2.933333333	2.933333333	1.955555556	
9	III	ETEC-257	Electronic Instruments and Measurement Lab	E123	2.25	2.5	2.25	3	2.75	2.67	1.25	2	3	3	2.25	3	3	2.75	1.75	
				E456	2.25	2.5	2.25	3	2.75	2.67	1.25	2	3	3	2.25	3	3	2.75	1.75	
				E789	2.25	2.5	2.25	3	2.75	2.67	1.25	2	3	3	2.25	3	3	2.75	1.75	
10	III	ETCS-255	Data Structures Lab	E123	2.5	2.5	2.25	2.75	2.75	2.67	1.5	2	3	3	2.25	3	3	2.75	2	
				E456	2.5	2.5	2.25	2.75	2.75	2.67	1.5	2	3	3	2.25	3	3	2.75	2	
				E789	2.5	2.5	2.25	2.75	2.75	2.67	1.5	2	3	3	2.25	3	3	2.75	2	
11	III	ETEC-259	Signals and Systems Lab	E123	2.84	2.84	2.84	2.84	2.84	2.84	0.71	1.89	2.84	2.84	-	2.84	2.84	2.84	1.18	
				E456	2.84	2.84	2.84	2.84	2.84	2.84	0.71	1.89	2.84	2.84	-	2.84	2.84	2.84	1.18	
				E789	2.84	2.84	2.84	2.84	2.84	2.84	0.71	1.89	2.84	2.84	-	2.84	2.84	2.84	1.18	
12	IV	ETMA 202	Applied Mathematics – IV	E123	2.26	2.26	1.51	0.75	2.26	0.75	-	-	0.75	-	-	1.51	2.26	2.26	1.51	
				E456	2.26	2.26	1.51	0.75	2.26	0.75	-	-	0.75	-	-	1.51	2.26	2.26	1.51	
				E789	2.26	2.26	1.51	0.75	2.26	0.75	-	-	0.75	-	-	1.51	2.26	2.26	1.51	
13	IV	ETEC 204	Analog Electronics – II	E123	3	3	1.25	2.75	1	1	1	1.25	1.33	2.25	1	3	3	3	3	
				E456	3	3	1.25	2.75	1	1	1	1.25	1.33	2.25	1	3	3	3	3	
				E789	3	3	1.25	2.75	1	1	1	1.25	1.33	2.25	1	3	3	3	3	
14	IV	ETEC 206	Network Analysis and Synthesis	E123	2.26	2.07	1.7	2.07	0.755	0.755	1.511	0.755	0.755	1.88	0.755	2.07	1.88	0.755	0.755	
				E456	2.26	2.07	1.7	2.07	0.755	0.755	1.511	0.755	0.755	1.88	0.755	2.07	1.88	0.755	0.755	
				E789	3	2.75	2.25	2.75	1	1	2	1	1	2.5	1	2.75	2.5	1	3	
15	IV	ETEC 208	Communication Systems	E123	2.86	2.86	2.86	2.63	2.39	2.39	-	0.95	0.95	1.91	-	2.63	2.63	2.86	2.15	
				E456	2.86	2.86	2.86	2.63	2.39	2.39	-	0.95	0.95	1.91	-	2.63	2.63	2.86	2.15	
				E789	2.86	2.86	2.86	2.63	2.39	2.39	-	0.95	0.95	1.91	-	2.63	2.63	2.86	2.15	
16	IV	ETEE 210	Electromagnetic Field Theory	E123	3	3	2	2.5	2.75	1.75	1.5	1.5	2.5	2.5	2.25	2.5	2.25	2.25	1.5	
				E456	3	3	2	2.5	2.75	1.75	1.5	1.5	2.5	2.5	2.25	2.5	2.25	2.25	1.5	
				E789	2.93	2.93	1.95	2.44	2.68	1.711	1.466	1.466	2.44	2.44	2.2	2.44	2.2	2.2	1.466	
17	IV	ETCS 204	Computer Organization and Architecture	E123	1.4	1.4	1	-	-	-	-	-	-	-	-	-	2	2.8	3	3
				E456	1.4	1.4	1	-	-	-	-	-	-	-	-	-	2	2.8	3	3
				E789	1.4	1.4	1	-	-	-	-	-	-	-	-	-	2	2.8	3	3
18	IV	ETMA 252	Applied Mathematics Lab	E123	2.97	2.97	2.97	0.99	2.97	1.98	-	-	0.99	-	-	1.98	2.97	2.97	1.98	
				E456	2.97	2.97	2.97	0.99	2.97	1.98	-	-	0.99	-	-	1.98	2.97	2.97	1.98	
				E789	2.97	2.97	2.97	0.99	2.97	1.98	-	-	0.99	-	-	1.98	2.97	2.97	1.98	
19	IV	ETEC 258	Network Analysis and Synthesis Lab	E123	2.2	1.8	1.4	2.2	2.2	1.4	1.4	1.4	1.6	1	2.2	1.6	2.2	1.4	1.4	
				E456	2.138888889	1.75	1.361111111	2.138888889	2.138888889	1.361111111	1.361111111	1.361111111	1.555555556	0.972222222	2.138888889	1.555555556	2.138888889	1.361111111	1.361111111	
				E789	2.2	1.8	1.4	2.2	2.2	1.4	1.4	1.4	1.6	1	2.2	1.6	2.2	1.4	1.4	
20	IV	ETEC 256	Communication System Lab	E123	2.86	2.86	2.86	2.63	2.39	2.39	-	0.95	0.95	1.91	-	2.63	2.63	2.86	2.15	
				E456	2.86	2.86	2.86	2.63	2.39	2.39	-	0.95	0.95	1.91	-	2.63	2.63	2.86	2.15	
				E789	2.86	2.86	2.86	2.63	2.39	2.39	-	0.95	0.95	1.91	-	2.63	2.63	2.86	2.15	
21	IV	ETEC 254	Analog Electronics – II Lab	E123	2	3	3	3	3	3	0	0	3	3	2.25	2.25	3	3	2	
				E456	2	3	3	3	3	3	0	0	3	3	2.25	2.25	3	3	2	
				E789	2	3	3	3	3	3	0	0	3	3	2.25	2.25	3	3	2	
22	IV	ETCS 260	Linux Programming and Administration Lab	E123	1	1.5	1.3	6	3	0	0	0	0	0	1	0	0.33	2	2	0.83
				E456	1	1.5	1.3	6	3	0	0	0	0	0	1	0	0.33	2	2	0.83
				E789	1	1.5	1.3	6	3	0	0	0	0	0	1	0	0.33	2	2	0.83

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23	V	ETHS-301	Communication Skills for Professionals	E123	1	2.5	2.25	1	1	-	-	-	1	-	1	2	1	1	3
				E456	1	2.5	2.25	1	1	-	-	-	1	-	1	2	1	1	3
				E789	1	2.5	2.25	1	1	-	-	-	1	-	1	2	1	1	3
24	V	ETEC-303	Digital Communication	E123	1.75	3	2	3	1	1	1	1	1.333333333	1.75	1.333333333	1.75	3	3	2
				E456	0.661111111	1.133333333	0.755555556	1.133333333	0.377777778	0.377777778	0.377777778	0.377777778	0.503703704	0.661111111	0.503703704	0.661111111	1.133333333	1.133333333	0.755555556
				E789	0.661111111	1.133333333	0.755555556	1.133333333	0.377777778	0.377777778	0.377777778	0.377777778	0.503703704	0.661111111	0.503703704	0.661111111	1.133333333	1.133333333	0.755555556
25	V	ETEC-305	Microprocessors and Microcontrollers	E123	0.62	0.62	0.39	0.54	0.73	0.93	0.62	0.93	0.93	0.7	0.62	0.777777778	0.86	0.9333	0.62
				E456	0.62	0.62	0.39	0.54	0.73	0.93	0.62	0.93	0.93	0.7	0.62	0.777777778	0.86	0.9333	0.62
				E789	0.62	0.62	0.39	0.54	0.73	0.93	0.62	0.93	0.93	0.7	0.62	0.777777778	0.86	0.9333	0.62
26	V	ETEL-307	Control Systems	E123	0.6	0.6	0.5	0.6	0.6	0.5	0.3	0.3	0.45	0.2	0.3	0.35	0.6	0.5	0.45
				E456	3	3	2.5	3	3	2.5	1.5	1.5	2.25	1	1.5	1.75	3	2.5	2.25
				E789	3	3	2.5	3	3	2.5	1.5	1.5	2.25	1	1.5	1.75	3	2.5	2.25
27	V	ETEC-309	Digital System Design	E123	2.4	2.4	2.4	2.4	1.8	1.2	0.6	1.4	1.4	1.75	1.6	1.2	2.4	2	0.2
				E456	1.8	1.8	1.8	1.8	2.5	1.75	1.5	1.25	1.5	1.5	2.25	2.5	2.5	2	2.5
				E789	3	3	3	3	3	2.333	2	1	1.75	1.75	2.666	2	3	2.5	1
28	V	ETMS-311	Industrial Management	E123	1.5	1.75	2.25	3	1.666666667	1.5	1.75	2.75	3	3	2	2	1	1	1
				E456	1.5	1.75	2.25	3	1.666666667	1.5	1.75	2.75	3	3	2	2	1	1	1
				E789	1.5	1.75	2.25	3	1.666666667	1.5	1.75	2.75	3	3	2	2	1	1	1
29	V	ETHS-351	Communication Skills for Professionals Lab	E123	1	2.5	2.25	1	1	-	-	-	-	-	1	2	1	1	3
				E456	1	2.5	2.25	1	1	-	-	-	-	-	1	2	1	1	3
				E789	1	2.5	2.25	1	1	-	-	-	-	-	1	2	1	1	3
30	V	ETEC-351	Digital System Design Lab	E123	1.25	1.5	2.25	1.75	1.75	1	1	2	1.5	2	2.75	2.75	2	2	2
				E456	1.25	2.5	2.25	1.25	1	-	-	3	1.75	1	2	2.75	2.75	2	2
				E789	2.5	2.5	2.6666667	2.5	2.5	2	2.5	2.3333	2.6666667	2.75	2.5	-	2	2.25	3
31	V	ETEL-355	Control Systems Lab	E123	2.5	2.75	1	2.25	1	1	1	1	2.5	2	2	2	3	1	1
				E456	2.5	2.75	1	2.25	1	1	1	1	2.5	2	2	2	3	1	1
				E789	2.5	2.75	1	2.25	1	1	1	1	2.5	2	2	2	3	1	1
32	V	ETEC-355	Microprocessors and Microcontrollers	E123	2.75	2.75	1.83	1.83	-	-	-	-	2.75	2.75	1.83	1.83	2.75	2.75	1.83
				E456	2.15	2.15	1.43	1.43	-	-	-	-	2.15	2.15	1.43	1.43	2.15	2.15	1.43
				E789	3	3	2	2	-	-	-	-	3	3	2	2	3	3	2
33	V	ETEC-357	Digital Communication Lab	E123	0.9	1.35	1.2	1.2	0.6	0.6	-	-	0.804	0.75	0.6	1.35	1.8	1.8	1.2
				E456	1.175	1.725	1.566666667	1.566666667	0.783333333	0.783333333	-	-	1.049666667	0.978166667	0.783333333	1.725	2.35	2.35	1.566666667
				E789	0.9	1.35	1.2	1.2	0.6	0.6	-	-	0.804	0.75	0.6	1.35	1.8	1.8	1.2
34	V	ETEC-359	Industrial training/In-house electronics W/S	E123	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5	3	2.5	3
				E456	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5	3	2.5	3
				E789	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5	3	2.5	3
35	VI	ETEC 302	Microwave Engineering	E123	2.93	2.93	2.93	2.93	2.44	1.95	1.95	0.97	1.95	1.95	1.95	2.93	2.93	2.2	2.68
				E456	2.93	2.93	2.93	2.93	2.44	1.95	1.95	0.97	1.95	1.95	1.95	2.93	2.93	2.2	2.68
				E789	2.93	2.93	2.93	2.93	2.44	1.95	1.95	0.97	1.95	1.95	1.95	2.93	2.93	2.2	2.68
36	VI	ETEC 304	Information Theory and Coding	E123	3	3	2.5	2	2	2	1.5	1	2	2.5	3	3	3	3	1.75
				E456	2.933	2.933	2.444	1.955	1.955	1.955	1.466	0.977	1.955	2.444	2.933	2.933	2.933	2.933	1.711
				E789	2.5	2	0.75	1.5	2.25	0	1	0	0	2.25	3	3	3	3	1.75
37	VI	ETEC 306	Digital Signal Processing	E123	3	3	3	2.75	2.5	2.5	1	1	1	2	1	2.75	2.75	3	2.25
				E456	3	3	3	2.75	2.5	2.5	1	1	1	2	1	2.75	2.75	3	2.25
				E789	3	3	3	2.75	2.5	2.5	1	1	1	2	1	2.75	2.75	3	2.25
38	VI	ETEC 308	VLSI Design	E123	2.5	3	2.5	2.75	2.25	2	2.25	2.25	2.75	2.5	2.25	1.75	2.75	2	2.75
				E456	2.5	3	2.5	2.75	2.25	2	2.25	2.25	2.75	2.5	2.25	1.75	2.75	2	2.75
				E789	2.5	3	2.5	2.75	2.25	2	2.25	2.25	2.75	2.5	2.25	1.75	2.75	2	2.75
39	VI	ETEC 310	Data Communication and Networks	E123	2.2	2.25	2	1.75	1.5	1.25	1	1	1	1.33	2	2.2	2.2	1.8	-
				E456	2.2	2.25	2	1.75	1.5	1.25	1	1	1	1.33	2	2.2	2.2	1.8	-
				E789	2.2	2.25	2	1.75	1.5	1.25	1	1	1	1.33	2	2.2	2.2	1.8	-
40	VI	ETEC 314	Antenna and Wave Propagation	E123	3	2.75	2.75	2.5	2.5	1.5	2.5	1.5	2	2.75	3	2.5	3	2.25	1.5
				E456	3	2.75	2.75	2.5	2.5	1.5	2.5	1.5	2	2.75	3	2.5	3	2.25	1.5
				E789	3	2.75	2.75	2.5	2.5	1.5	2.5	1.5	2	2.75	3	2.5	3	2.25	1.5
41	VI	ETEC 352	Microwave Engineering Lab	E123	1.8	1.8	1.8	1.5	1.8	1.2	1.05	0.6	1.35	1.2	1.65	1.5	1.8	1.5	1.5
				E456	1.8	1.8	1.8	1.5	1.8	1.2	1.05	0.6	1.35	1.2	1.65	1.5	1.8	1.5	1.5
				E789	1.8	1.8	1.8	1.5	1.8	1.2	1.05	0.6	1.35	1.2	1.65	1.5	1.8	1.5	1.5
42	VI	ETEC 354	VLSI Design Lab	E123	1.05	1.2	0.9	1.2	1.2	0.6	1.2	0.6	1.5	1.8	1.2	0.75	1.65	1.65	1.35
				E456	1.4	1.6	1.2	1.6	1.6	0.8	1.6	0.8	2	2.4	1.6	1	2.2	2.2	1.8
				E789	1.05	1.2	0.9	1.2	1.2	0.6	1.2	0.6	1.5	1.8	1.2	0.75	1.65	1.65	1.35
43	VI	ETEC 356	Digital Signal Processing Lab	E123	3	3	3	2.75	2.5	2.5	1	1	3	2	1	3	3	3	2
				E456	3	3	3	2.75	2.5	2.5	1	1	3	2	1	3	3	3	2
				E789	3	3	3	2.75	2.5	2.5	1	1	3	2	1	3	3	3	2
44	VI	ETEC 358	Data Communication Network Lab	E123	2.2	1.8	1.4	2.2	2.2	1.4	1.4	1.4	1.6	1	2.2	1.6	2.2	1.4	1.4
				E456	2.138	1.75	1.36	2.138	2.13	1.36	1.36	1.36	1.55	0.97	2.13	1.55	2.13	1.361	1.36
				E789	2.2	1.8	1.4	2.2	2.2	1.4	1.4	1.4	1.6	1	2.2	1.6	2.2	1.4	1.4
45	VI	ETEC 360	Industrial/In-house Training#	E123	2	3	3	1.5	2.5	3	2.75	3	2.75	2	2.75	2.34	3	2.5	3
				E456	2	3	3	1.5	2.5	3	2.75	3	2.75	2	2.75	2.34	3	2.5	3
				E789	1.566666667	2.35	2.35	1.175	1.958333333	2.35	2.154166667	2.35	2.154166667	1.566666667	2.154166667	1.833	2.35	1.958333333	2.35

**Provide results of evaluation of each PO & PSO**

*Program shall set Program Outcome attainment levels for all POs & PSOs.*

**Year 2019-20**

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course – PO & PSO matrix as indicated).

Sr. No.	Semester	Code No.	Paper	GROUP	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
46	VII	ETEC-401	Embedded Systems	E123	2	1	1	2	2	-	2	-	-	2	-	1.25	3	2.5	1	
				E456	2	1	1	2	2	-	2	-	-	2	-	1.25	3	2.5	1	
				E789	2	1	1	2	2	-	2	-	-	2	-	1.25	3	2.5	1	
47	VII	ETEC-403	Optoelectronics and Optical Communication	E123	2.75	1.25	1.5	1	1	1.5	1.75	1.34	1	1.25	1.5	2	3	2.25	1.5	
				E456	2.75	1.25	1.5	1	1	1.5	1.75	1.34	1	1.25	1.5	2	3	2.25	1.5	
				E789	2.75	1.25	1.5	1	1	1.5	1.75	1.34	1	1.25	1.5	2	3	2.25	1.5	
48	VII	ETEC-405	Wireless Communication	E123	1.75	2.75	2.5	1.67	2	1	1.13	1.13	-	2	1.34	1.5	3	2	2	
				E456	1.75	2.75	2.5	1.67	2	1	1.13	1.13	-	2	1.34	1.5	3	2	2	
				E789	1.75	2.75	2.5	1.67	2	1	1.13	1.13	-	2	1.34	1.5	3	2	2	
49	VII	ETCS-425	Database Management System	E123	1	3	3	2	3	2	2	2	3	3	3	2	2.75	2.5	2.5	
				E456	1	3	3	2	3	2	2	2	3	3	3	2	2.75	2.5	2.5	
				E789	1	3	3	2	3	2	2	2	3	3	3	2	2.75	2.5	2.5	
50	VII	ETEC-419	Radar and Navigation	E123	2.75	2.25	2	2.25	2	2	2	2.5	2.5	2	2.333	2.5	2.75	2.5	2	
				E456	2.75	2.25	2	2.25	2	2	2	2.5	2.5	2	2.333	2.5	2.75	2.5	2	
				E789	2.75	2.25	2	2.25	2	2	2	2.5	2.5	2	2.333	2.5	2.75	2.5	2	
51	VII	ETEC-451	Optical and Wireless Communication Lab	E123	2.75	2.75	2.75	2.75	2.5	1	1.75	1	2.25	2.5	3	3	2.25	2.5	1.75	
				E456	2.75	2.75	2.75	2.75	2.5	1	1.75	1	2.25	2.5	3	3	2.25	2.5	1.75	
				E789	2.75	2.75	2.75	2.75	2.5	1	1.75	1	2.25	2.5	3	3	2.25	2.5	1.75	
52	VII	ETEC-453	Embedded System Lab	E123	2.67	1	1	1.67	2.34	-	1	-	3	2	-	-	3	2.5	1	
				E456	2.67	1	1	1.67	2.34	-	1	-	3	2	-	-	3	2.5	1	
				E789	2.67	1	1	1.67	2.34	-	1	-	3	2	-	-	3	2.5	1	
53	VII	ETEC-455	Radar and Navigation	E123	2.5	2.75	2.75	3	2.75	2.25	1.75	1.75	2.25	1.75	3	2.25	2.75	2.5	2.25	
				E456	2.5	2.75	2.75	3	2.75	2.25	1.75	1.75	2.25	1.75	3	2.25	2.75	2.5	2.25	
				E789	2.5	2.75	2.75	3	2.75	2.25	1.75	1.75	2.25	1.75	3	2.25	2.75	2.5	2.25	
54	VII	ETEC-457	Seminar	E123	2	2	2	1.75	1.75	1.25	1.33333333	1	1	1.66666667	1	2	2.5	2.5	3	
				E456	2	2	2	1.75	1.75	1.25	1.33333333	1	1	1.66666667	1	2	2.5	2.5	3	
				E789	2	2	2	1.75	1.75	1.25	1.33333333	1	1	1.66666667	1	2	2.5	2.5	3	
55	VII	ETEC-459	Minor Project+	E123	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3	3	3	2.5	
				E456	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3	3	3	2.5	
				E789	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3	3	3	2.5	
56	VII	ETEC-461	Industrial Training@	E123	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5	3	2.5	3	
				E456	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5	3	2.5	3	
				E789	3	2.25	2.75	2.5	2.5	2.5	1.75	2.25	2	2.25	1	2.5	3	2.5	3	
57	VIII	ETHS-402	Human Values and Professional Ethics-II	E123	1	2.25	2.25	1	1.33	1	1.75	1.25	1	2	-	-	1.66	1.5	3	
				E456	1	2.25	2.25	1	1.33	1	1.75	1.25	1	2	-	-	1.66	1.5	3	
				E789	1	2.25	2.25	1	1.33	1	1.75	1.25	1	2	-	-	1.66	1.5	3	
58	VIII	ETEC-404	Satellite Communication	E123	1.2	1.07	0.8	1.07	1.33	0.13	0.4	0.27	0.53	0.4	0.53	1.47	1.33	1.4667	1.07	
				E456	1.35	1.2	0.9	1.2	1.5	0.15	0.45	0.3	0.6	0.45	0.6	1.65	1.5	1.65	1.2	
				E789	1.3	1.15556	0.86667	1.1555556	1.4444	0.144444	0.4333333	0.288889	0.57778	0.433	0.57778	1.5889	1.44444	1.588889	1.155556	
59	VIII	ETEC-406	Ad Hoc and Sensor Networks	E123	1.5	1.75	2.5	1.67	1.25	1.25	2.5	1	1	1.34	1	1.5	2.75	2.75	2.5	
				E456	1.5	1.75	2.5	1.67	1.25	1.25	2.5	1	1	1.34	1	1.5	2.75	2.75	2.5	
				E789	1.5	1.75	2.5	1.67	1.25	1.25	2.5	1	1	1.34	1	1.5	2.75	2.75	2.5	
60	VIII	ETIT-402	Mobile Computing	E123	1.2	1.1	1.1	1	0.7	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.4
				E456	1.2	1.1	1.1	1	0.7	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.4
				E789	1.2	1.1	1.1	1	0.7	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.4
61	VIII	ETEC-428	Next Generation Networks	E123	1.866667	2.1	1.866667	1.4	2.566667	2.1	2.8	0.933333	-	1.166667	1.4	2.333333	2.566667	2.333333	2.1	
				E456	3	1.75	1.5	2	2.5	1	-	-	3	1.666667	3	2	2.75	2.5	2.25	
				E789	1.6	1.8	1.6	1.2	2.2	1.8	2.4	0.8	-	1	1.2	2	2.2	2	1.8	
62	VIII	ETEC-452	Satellite and Antenna Lab	E123	2.73	2.51	2.51	2.28	2.28	1.82	2.51	1.82	2.28	2.05	2.73	2.73	2.7333	1.822222	1.82	
				E456	2.73	2.51	2.51	2.28	2.28	1.82	2.51	1.82	2.28	2.05	2.73	2.73	2.7333	1.822222	1.82	
				E789	2.73	2.51	2.51	2.28	2.28	1.82	2.51	1.82	2.28	2.05	2.73	2.73	2.7333	1.822222	1.82	
63	VIII	ETEC-454	Mobile Computing	E123	3	2.75	2.75	2.5	1.75	1	1	2	2	2	2	2	2.25	2	1	
				E456	3	2.75	2.75	2.5	1.75	1	1	2	2	2	2	2	2.25	2	1	
				E789	3	2.75	2.75	2.5	1.75	1	1	2	2	2	2	2	2.25	2	1	
64	VIII	ETEC-456	Major Project*	E123	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3	3	3	2.5	
				E456	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3	3	3	2.5	
				E789	3	3	2.75	2.75	2.75	3	3	1	3	2.5	2.5	3	3	3	2.5	