

Program Articulation Matrix (Mapping of Courses with POs)

S. No.	Course code	Course Name	Course category	L	T	P	S	Cr	Pre-Req.	PO												PS O	
										1	2	3	4	5	6	7	8	9	10	11	12	1	2
1	20UC 1101	Integrated Professional English	HSS	0	0	4	0	2	NIL								1	1					
2	20UC 1202	English Proficiency	HSS	0	0	4	0	2	NIL							1	1			2			
3	20UC 2103	Professional Communication Skills	HSS	0	0	4	0	2	NIL	1			1							1			
4	20UC 2204	Corporate Communication Skills	HSS	0	0	4	0	2	NIL	1			1							1			
5	20UC 3005	Aptitude Builder	HSS	0	0	4	0	2	NIL	1			1							1			
6	20UC 0007	Indian Heritage and Culture	HSS	2	0	0	0	0	NIL	1													
7	20UC 0008	Indian Constitution	HSS	2	0	0	0	0	NIL												1		
8	20UC 0009	Ecology & Environment	HSS	2	0	0	0	0	NIL						2						1		
9	20UC 0010	Universal Human Values & Professional Ethics	HSS	2	0	0	0	0	NIL								2						
10	20UC 0011	Entrepreneurship	HSS	2	0	0	0	0	NIL											2			
11	20MT 1101	Mathematics for Computing	BS	2	2	0	2	4.5	NIL	2													
12	20SC 1202	Design Thinking and Innovation-I		1	0	0	4	2	NIL			2						2					
13	19MT 2102	Mathematics for Engineers	BS	2	1	0	0	3	NIL	2													
14	19CY 1101	Science Elective-1 (Engineering Chemistry)	BS	3	0	2	0	4	NIL	2				2									
15	20SC 2104	Design Thinking and Innovation-II	BS	1	0	0	4	2	NIL	1	2	3	2	2				3		2			
16	19PH 1006	Science Elective - 2 (Measurements & Materials)	BS	3	0	2	0	4	NIL	3	2			2									
17	19BT 1001	Biology for Engineers	BS	3	0	2	0	4	NIL	1			1							1			
18	20SC 1101	Computational Thinking for	BS	2	0	0	0	2	NIL						1	1							

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37	20EE 3101	AI TECHNIQUES IN ELECTRICAL ENGINEERING	FC	3	1	0	0	4	19EE 2203	2			2	2					3	3		3
38	20EE 3102	ELECTRIC DRIVES	FC	3	1	0	0	4	19EE 2202	1	3			2							1	
39	20EE 3103	RESTRUCTURED POWER SYSTEMS	FC	3	1	0	0	4	19EE 2102	1				3							2	
40	20EE 3104	Power Quality	FC	4	0	0	0	4	Nil	2	3		2	3							2	
41	20EE 3105	UTILISATION OF ELECTRICAL ENERGY	FC	3	1	0	0	4	Nil	2						3					3	1
42	20EE 3206	SENSORS AND INTERNET OF THINGS	FC	3	0	2	0	4	Nil	1	1			2						2	1	2
44	19EE 3121	SOLAR AND MICRO ENERGY TECHNOLOGIES	PE	3	0	0	0	3	NIL	2				2							1	
45	19EE 3122	WIND AND ENERGY STORAGE TECHNOLOGIES	PE	3	0	0	0	3	NIL	1	3										2	
46	19EE 3123	ENERGY MANAGEMENT AND GREEN BUILDINGS	PE	3	0	0	0	3	NIL		2				2					3	2	1
47	20EE 3221	AI AND IOT FOR GREEN ENERGY INTEGRATION	PE	3	0	0	0	3	NIL			2		1						1	2	1
48	20EE 3222	GRID INTEGRATION OF RENEWABLE ENERGY SOURCES	PE	3	0	0	0	3	NIL					1		2					3	
49	19EE 3141	POWER TRAIN DESIGN FOR ELECTRIC VEHICLE	PE	3	0	0	0	3	19EE 2103						2	3					1	2
50	19EE 3142	BATTERY STATE ESTIMATION ALGORITHMS	PE	3	0	0	0	3	NIL	1				2		2					1	2

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		CYBERSECURITY																			
63	20EE3232	INTERNET OF THINGS AND SMART GRID ANALYTICS	PE	3	0	0	0	3	NIL	1				2						1	2
64	20MB4051	Modelling Business Systems	ME	2	0	0	0	2	Nil					1			3	2		1	
65	20MB4052	Entrepreneurship Essentials	ME	2	0	0	0	2	Nil					1			3	2			1
66	20IE2050	Social internship	PR	0	0	0	8	2	NIL					1		2		2			3
67	20IE3050	Technical Internship	PR	0	0	0	8	2	NIL				3	1				2			2
68	20IE3150	Mid Grad Capstone Project – I	PR	0	0	0	8	2	NIL					2							
69	20IE3250	Mid Grad Capstone Project – II	PR	0	0	0	8	2	NIL					2							
70	20IE4150	Capstone Project – I	PR	0	0	0	24	6	NIL				2	3							2
71	20IE4250	Capstone Project – II	PR	0	0	0	24	6	NIL				2	3							2
72	19IE4050	Practice School	PR	0	0	0	24	6	NIL				2	3							2
73	19IE4051	Internship	PR	0	0	0	24	6	NIL				2	3							2
74	20TS3101	Technical Proficiency - 1 / Entrepreneurial Incubation	PTA	0	0	0	12	3	NIL		1	2		3							2
75	20TS3202	Technical Proficiency - 2 / Technopreneurship	PTA	0	0	0	12	3	NIL		1	2		3							2
76	20TS4103	Technical Proficiency - 3 / Entrepreneurial Skilling	PTA	0	0	0	12	0	NIL		1	2		3							2
77	20TS4204	Technical Proficiency - 4 / Entrepreneurial Skilling	PTA	0	0	0	12	0	NIL		1	2		3							2
78	19EE40A3	Renewable Energy Sources	OE	3	0	0	0	3	NIL					2	3						
79	19EE40A4	Energy Estimation & Audit	OE	3	0	0	0	3	NIL					2	3						