



**BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE**

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

Batlapalem, Amalapuram, Indupalli Post, Dr. B. R. A. Konaseema Dist. AP, INDIA – 533201.

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**3.1.3 – A –Program Level Course – PO Matrix of all courses INCLUDING First Year Courses**

**2018 – 22 BATCH**

COURSE-PO MAPPING REVISED																
BATCH: 2018-22																
S.No.	COURSE NAME	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	English I	C111	3	-	3	-	2	-	1	2	-	2	-	-	-	2
2	Mathematics I	C112	2.17	2.33	1.5	1.5	-	-	-	-	-	-	-	-	-	-
3	Mathematics II	C113	2.17	2.33	1.5	-	-	-	-	-	-	-	-	-	-	-
4	Applied Physics	C114	3	2	1	-	-	-	-	-	-	1	-	-	-	1
5	Computer Programming	C115	3	2.75	2.33	2	2.5	-	-	-	-	-	-	-	2	1.5
6	Engineering Drawing	C116	2	2	1.83		1			1.83	1	2.17		1	2.33	2.5
7	English - Communication Skills Lab I	C117	-	-	-	-	2	-	-	-	2	2.67	-	1.17	1	2
8	Applied / Engineering Physics Lab	C118	3	2	-	-	2	-	-	-	-	-	-	-	-	1
9	Applied / Engineering Physics –Virtual Labs - Assignments	C119	3	2	1	-	2	-	-	-	-	-	-	-	-	
10	Engineering Workshop & IT Workshop	C1110	3	2.6	-	-	-	-	-	-	3	3	-	-	-	-
11	English II	C121	2.33	-	-	-	3	1.25	1	-	2.5	2	-	2	-	3





44	Professional Ethics & Human Values	C319	-	-	-	-	-	-	-	3	-	2	-	-	-	-
45	Microprocessors and Microcontrollers	C321	1.79	1.67	3	-	2	-	-	-	-	-	-	-	2	-
46	Microwave Engineering	C322	2.2	1.8	2.3	-	-	-	-	-	-	-	-	-	2	-
47	VLSI Design	C323	1.83	2	2.2	-	-	-	-	-	-	-	-	-	2	-
48	Digital Signal Processing	C324	1.75	2.80		1.50	3	-	-	-	-	-	-	-	2	-
49	OOPs through Java	C325	2.33	2.5	1	2.5		2	-	-	-	-	-	-	2	2
50	Microprocessors and Microcontrollers Lab	C326	2.8	1.75	1.5	-	1.4	-	-	-	2	1.5	-	-	2	-
51	VLSI Design Lab	C327	2	-	3	-	2	-	-	-	-	-	-	-	1	-
52	Digital Communications Lab	C328	1.60	3	3	-	1	-	-	-	-	-	-	-	1	-
53	IPR & Patents	C329	-	-	3	-	-	2	-	-	-	-	-	-	-	-
54	Radar Systems	C411	1.3	2.3	2.5	-	-	-	-	-	-	-	-	-	2	-
55	Digital Image Processing	C412	1.83	1.67	3										2	
56	Computer Network	C413	2.16	1.83	2	2.5		-	-	-	-	-	-	-	2.33	-
57	Optical Communications	C414	2.4	2.75	2.5	-	2	-	-	-	-	-	-	2	2	-
58	Electronic Switching Systems	C415	1.83	2	2.25	-	-	-	-	-	-	-	-	-	2	-
59	Embedded Systems	C416	1.67	2.5	2										2	
60	Micro Wave Engineering & Optical Lab	C417	1	3	-	-	2.2	-	-	-	-	-	-	-	2	-
61	Digital Signal Processing Lab	C418	2.88	2.08	3	-	-	-	-	-	-	-	-	-	2	-
62	Cellular Mobile Communications	C421	2.4	2.2	2.5	2	2	-	-	-	-	-	-	-	2	-
63	Electronic Measurements and Instrumentation	C422	3	1.33	-	-	-	-	-	-	-	-	-	-	3	-
64	Satellite Communications	C423	2.4	2.67	2	-	1	-	-	-	-	-	-	2	2	-
65	Wireless Sensors and Networks	C424	2.8	1	2.5	2	2.5	-	-	-	-	-	-	-	2	-
66	Seminar	C425	-	3	-	3	3	3	3	3	-	3	-	3	3	3
67	Project	C426	-	3	3	3	3	3	3	3	3	3	3	3	3	3
PO-PSO			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
No of Courses Contributing to each PO-PSO			60	59	50	21	33	8	7	8	11	12	3	12	49	14

<b>% of Courses Contributing to each PO- PSO</b>	89.55	88.06	74.63	31.34	49.25	11.94	10.45	11.94	16.42	17.91	4.48	17.91	73.13	20.90
	2.15	2.23	2.14	2.01	2.11	1.78	1.83	2.30	2.17	2.30	2.30	1.72	1.84	1.77
<b>Target</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	3.00	3.00	2.00	2.00	2.00

  
Coordinator

  
Head of the Department  
Electronics & Communication Engineering  
B.V.C. Institute of Technology and Science  
Battapalem, Amalapuram - 533 201



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

COURSE-PO MAPPING																
BATCH: 2019-23																
S.No	COURSE NAME	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	English	C111	-	-	-	-	2.00	2.00	2.00		2.00	2.00		2.00	-	2.00
2	Mathematics - I	C112	2.00	2.25	2.00	-	-	-	-	-	-	-	-	-	-	-
3	Applied Chemistry	C113	2.00	1.60	-	-	-	-	-	-	-	-	-	-	-	-
4	Programming for Problem Solving Using C	C114	2.40	2.20	2.00	-	-	-	-	-	-	-	-	-	2.00	-
5	Engineering Drawing	C115	2.60	1.00	2.50	-	-	-	-	-	-	2.40	-	1.20	2.40	2.40












42	Linear Integrated Circuits and Applications - Lab	C316	2.23	2.45	2.21	2.00	-	-	-	-	2.00	-	-	-	1.47	-
43	Digital Communications Lab	C317	1.25	3.00	3.00	1.00	1.08								1.20	
44	Microprocessor and Microcontrollers - Lab	C318	3.00		2.00		2.00							1.00	2.00	
45	Mini Project with Hardware Development	C319	2.25	2.33	2.00	3.00	1.80	2.33	2.40	2.50	2.33	2.75	2.20	2.40	2.20	2.20
46	Essence of Indian Traditional Knowledge	C3110	-	-	-	-	-	2.60	-	3.00	-	2.70	-	-	-	-
47	Wired and Wireless Transmission Devices	C321	2.60	2.20	1.75	2.00	-	-	-	-	-	-	-	-	2.00	-
48	VLSI Design	C322	2.00	2.00	2.40	-	2.00	-	-	-	-	-	-	-	2.00	-
49	Digital Signal Processing	C323	2.20	2.00	1.50	-	-	-	-	-	-	-	-	-	2.00	-
50	Cellular & Mobile Communication	C324	2.50	2.75	2.33	2.00	-	-	-	-	-	-	-	-	2.00	-
51	MEMS and its applications	C325	2.60	-	-	2.67	-	-	-	-	-	-	-	3.00	2.00	-
52	Internet of Things	C326	2.20	-	1.80	1.75	2.00	1.50	-	-	-	-	2.00	-	2.00	-

53	VLSI Lab	C327	1.00	1.00	2.25	1.00	2.25								2.25	
54	Digital Signal Processing Lab	C328	3.00	2.60	3.00	-	2.00	-	-	-	-	-	-	-	2.00	-
55	Intellectual Property Rights (IPR) & Patents	C329			2.00			2.00								
56	Microwave and Optical Communication Engineering	C411	2.40	2.40	2.33	2.00	1.00	1.00	2.00	-	-	-	-	-	2.00	-
57	Data Communications & Computer networks	C412	2.60	2.00	-	2.00	-	-	-	-	-	-	-	-	2.00	-
58	Digital Image and Video Processing	C413	2.40	2.00	2.00	1.50	3.00	-	-	-	-	-	2.00	-	2.00	-
59	Communication Standards and Protocols	C414	2.00	1.66	1.00	-	-	-	1.00	-	-	-	-	-	2.00	-
60	Embedded Systems	C415	2.00	2.50	2.00										2.00	
61	Internet of Things Lab	C416	2.25	1.00	2.30	1.60	2.50	1.50					2.50		2.25	
62	Microwave and Optical Communication Engineering LAB	C417	1.07	3.00	-	-	2.27	-	-	-	-	-	-	-	2.00	-
63	Project - Part I	C418	2.00	3.00	3.00	-	2.50	-	3.00	2.50	2.50	3.00	3.00	2.50	3.00	2.50

64	Wireless Communication	C421	2.40	1.50	1.00	-	-	-	-	-	-	-	-	-	2.00	-
65	Cyber Security & Cryptography	C422	2.40	1.25	1.00	-	-	-	-	-	-	-	-	-	2.00	-
66	Project - Part II	C423	2.50	1.00	1.00	3.00	1.33	2.33	2.00	-	2.00	2.50	1.67	2.33	1.67	2.00
<b>PO-PSO</b>			<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
No of Courses Contributing to each PO-PSO			59	54	47	22	29	11	9	7	11	12	9	13	48	13
% of Courses Contributing to each PO-PSO			89.39 %	81.82 %	71.21 %	33.33 %	43.94 %	16.67 %	13.64 %	10.61 %	16.67 %	18.18 %	13.64 %	19.70 %	72.73 %	19.70 %
Target			2.24	2.18	2.10	1.88	2.12	1.93	2.06	2.29	2.08	2.37	2.24	1.96	1.93	1.93

  
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