



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to Pondicherry University

Accredited by NBA & NAAC 'A' Grade

Kalitheerthakuppam, Puducherry - 605107

Accredited by



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Program level Course-PO/PSO Attainment of all courses INCLUDING first year courses
2013 REGULATION**

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
FIRST SEMESTER															
C101	Mathematics – I	2.70	1.80	2.17	-	-	1.09	1.80	-	-	-	1.52	1.84	0.36	-
C102	Physics	2.66	2.66	0.89	0.89	-	0.89	-	-	-	-	-	2.66	-	-
C103	Chemistry	2.46	1.64	1.97	-	-	0.98	1.64	-	-	-	1.37	1.31	0.32	-
C104	Basic Electrical and Electronics Engineering	1.96	1.14	-	-	1.64	-	-	-	-	-	1.63	-	0.16	-
C105	Engineering Thermodynamics	2.44	2.44	-	-	-	-	-	-	-	-	-	0.81	-	-
C106	Computer Programming	2.44	1.77	1.93	1.31	0.94	1.87	-	0.94	-	1.25	0.94	1.43	0.91	1.56
C107 (P)	Computer Programming lab	3	3	3	3	3	-	-	-	-	-	-	3	2	3
C108 (P)	Engineering Graphics	2	1	-	-	-	-	-	-	-	-	-	-	-	-
C109 (P)	Basic Electrical & Electronics Laboratory	1	1	-	-	1	-	-	-	-	-	0.6	-	-	-
SECOND SEMESTER															

C206	Computer Organization and Architecture	2.10	1.53	-	-	0.39	-	-	-	-	-	-	-	0.96	2.87
C207 (P)	Electronics Devices and Circuits Lab	3	-	2.24	-	1.94	1.45	-	-	-	-	-	-	1.8	-
C208 (P)	Data Structures Laboratory	2.35	2.25	-	1.44	1.25	-	-	-	-	-	-	-	1.61	-
C209 (P)	Digital system design Laboratory	2.96	2.96	2.56	-	2.94	-	-	-	-	-	2.175	-	-	1.79

FOURTH SEMESTER

C210	Mathematics -IV	3	2	2	1	1	-	-	-	-	-	-	1	3	1
C211	Microprocessors and Microcontrollers	2.77	2.52	2.52	1.38	1.03	-	-	-	-	-	-	-	0.73	0.92
C212	Automata Languages and Computations	2.93	2.34	0.48	0.63	-	-	-	-	-	-	-	-	2.64	0.78
C213	Design and Analysis of Algorithms	2.91	2.91	-	0.30	-	-	-	-	-	-	-	-	-	-
C214	Object Oriented Programming	2.15	1.37	1.37	1.37	1.55	-	-	-	-	-	-	1.95	1.55	2.93
C215	Graphics and Image Processing	2.05	2.05	1.92	2.24	1.28	-	-	-	-	-	-	2.6	2.6	2.6
C216 (P)	Microprocessor and Microcontrollers Laboratory	2.98	1.32	0.66	-	1.65	-	-	-	-	0.99	-	-	2.98	-
C217 (P)	Design and Analysis of	2.79	2.79	-	1.56	1.23	-	0.73	0.57	-	-	-	-	1.86	-

	Algorithms Lab														
C218 (P)	Object Oriented Programming Languages	2.99	2.99	2.99	2.99	2.99	-	-	-	-	-	-	2.99	2.99	2.99
C219 (P)	Physical Education*	1	0.4	0.4	0.4	0.6	0.8	-	1	1.6	1	1	0.8	-	-
FIFTH SEMESTER															
C301	Operating Systems	2.92	1.75	1.16	1.16	1.55	-	-	-	-	-	-	-	1.95	1.95
C302	Computer Networks	2.79	1.30	0.37	1.49	1.43	-	-	-	-	-	-	2.04	1.49	2.60
C303	Database Management Systems	2.59	2.41	2.18	1.29	-	-	-	-	-	-	-	-	2.78	2.18
C304	Language Translators	2.37	0.79	0.59	-	-	-	-	-	-	-	-	-	1.97	2.37
C305	Software Engineering	1.97	1.70	0.99	0.99	1.18	-	-	-	0.60	0.29	-	1.48	1.83	2.96
C306 (P)	Operating Systems Laboratory	2.32	2	0.64	1.13	-	-	-	-	-	-	-	-	0.54	0.32
C307 (P)	Computer Networks Laboratory	1.82	2	1.82	1.16	1.32	1.49	-	-	1.49	-	-	1.16	1.82	-
C308 (P)	Database Management Systems Lab	2.65	2.65	2.31	1.66	1.99	-	-	-	0.99	-	1.65	2.65	2.65	2.65
C309	General Proficiency -I	-	-	-	-	-	-	-	-	3	3	-	-	-	-
SIXTH SEMESTER															
C310	Enterprises Solution	0.87	1.31	1.61	-	2.1	-	-	0.9	0.59	-	2.09	-	-	1.36

C311	Embedded Systems	1.79	1.67	1.19	-	0.59	-	-	-	-	-	-	-	-	-
C312	Web Technology	2.16	-	1.96	-	0.981	2.62	-	-	-	-	0.96	1.56	2.45	1.73
C313	Elective-I – OOAD	2.96	2.37	1.38	-	1.77	-	-	-	0.98	-	-	-	-	1.18
C314	Elective-II E-Business	1.30	1.50	1.87	0.75	1.65	-	-	-	-	-	-	1.86	-	0.52
C315 (P)	Enterprises Solutions Laboratory	1.36	1.63	1.99	-	2.36	-	-	-	-	-	-	2.36	-	1.63
C316 (P)	Embedded Systems Laboratory	1.97	1.97	1.97	-	1.97	-	-	-	-	-	-	1.97	-	-
C317 (P)	Web Technology Laboratory	1.87	-	1.94	-	2.43	-	-	-	-	-	0.96	2.69	2.33	1.73
C318 (P)	Industrial Visits/Training	3	3	3	3	3	3	2	2	3	3	3	3	-	-
C319 (P)	General Proficiency II	-	-	-	-	-	-	-	-	3	3	0.8	0.8	-	-
SEVENTH SEMESTER															
C401	Artificial Intelligence	2.56	0.79	0.59	-	-	-	-	-	-	-	-	-	-	-
C402	Computer Hardware and Network Troubleshooting	2.95	2.26	1.90	0.98	1.47	0.39	0.19	0.39	0.39	1.287	0.391	1.768	1.523	2.56
C403	Platform Technology	2.75	2.36	2.36	2.35	2.75	-	-	-	0.40	1.57	0.39	1.37	0.38	2.94
C404	Software Testing and Quality Assurance	1.97	1.97	1.97	1.97	1.97	-	-	-	1.17	0.58	-	2.95	0.39	2.97

C405 (P)	Artificial Intelligence Laboratory	3	2.3	1.33	0.67	-	-	-	-	-	-	-	-	2	2
C406 (P)	Troubleshooting Laboratory	2.63	2.63	1.64	1.31	2.30	-	-	-	-	-	-	0.98	2.6	1.3
C407 (P)	Platform Technology Laboratory	2.96	2.31	2.96	1.98	2.31	-	-	-	1.65	1.48	1.97	2.31	2.30	2.64
C408 (P)	Project Work (Phase I)	2.6	0.8	0.4	1	0.8	1.8	1.6	2.2	2.8	1.2	1.4	2.6	2.6	0.8

EIGHTH SEMESTER

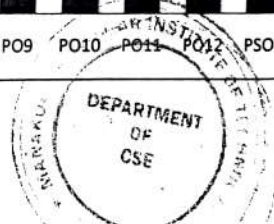
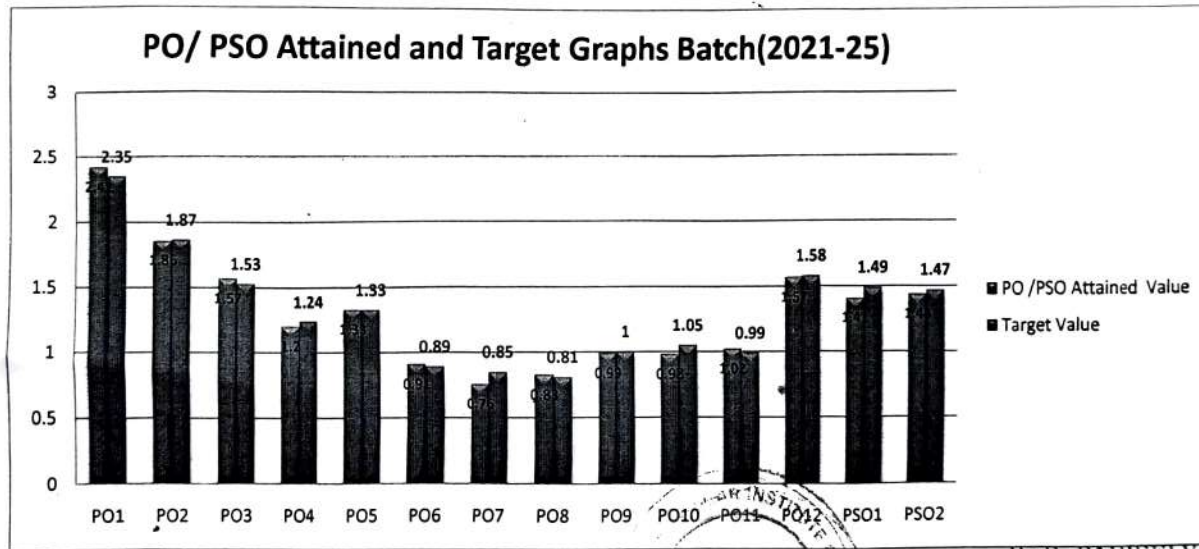
C409	Engineering Economics and Management	2.85	1.99	0.665	-	-	0.76	-	0.905	-	-	1.81	1.81	-	0.3
C410	Information Security	2.66	2.66	2.36	1.28	1.34	-	-	-	-	-	2.38	1.94	2.4	2.6
C411	ElectiveV – Mobile Computing	2.44	1.93	1.77	1.70	0.68	-	-	-	-	-	-	-	0.19	0.78
C412	ElectiveVI Cloud Computing	2.35	0.95	0.18	-	-	-	-	-	-	-	-	-	0.38	2.93
C413 (P)	Professional Ethics Practice	2.4	2.8	1.8	1.6	0.8	1	1	0.6	-	0.2	2	3	-	-
C414 (P)	Seminar	3	-	1	-	-	-	-	-	1.6	2.4	-	2.4	-	-
C415 (P)	Comprehensive Viva Voce	2.4	-	1.8	-	-	-	-	-	0.8	0.2	-	2.8	-	-
C416 (P)	Project Work (Phase-II)	2.6	0.8	0.4	-	0.8	-	1.6	-	2.8	1.2	1.4	2.6	2.6	0.8

Guest Lectures	2.90	2.81	2.81	-	2.82	2.72	2.37	3.00	2.91	2.72	2.77	2.77	2.81	2.78
Workshops	2.57	2.57	2.57	2.57	2.57	2.57	3.00	3.00	2.57	3.00	3.00	2.57	2.57	2.57
Industrial Visits	2.38	-	2.37	-	2.37	-	-	2.37	2.37	2.37	2.38	-	-	2.38
Mini Projects	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Value added Courses	2.8	2.8	2.7	2.8	2.65	2.65	-	-	2.65	2.78	2.78	2.73	3	3
Average of PO's(Direct)	2.32	1.64	1.29	0.83	1.00	0.49	0.32	0.39	0.61	0.60	0.61	1.30	1.09	1.12
Programme exit survey	2.79	2.83	2.53	2.67	2.7	2.31	2.1	2.2	2.1	2.12	2.69	2.68	2.78	2.72
Employer survey	2.86	2.6	2.86	2.57	2.6	2.9	2.86	2.86	2.71	2.86	2.71	2.71	2.71	2.71
Alumni survey	2.75	2.72	2.74	2.75	2.67	2.64	2.72	2.72	2.7	2.54	2.53	2.63	2.63	2.73
Average of PO's(InDirect)	2.80	2.72	2.71	2.66	2.66	2.62	2.56	2.59	2.50	2.51	2.64	2.67	2.71	2.72
Overall PO / PSO Attainment Level														
(DIRECT 80%)	1.86	1.31	1.03	0.67	0.80	0.39	0.25	0.32	0.49	0.48	0.49	1.04	0.87	0.90
(INDIRECT 20%)	0.56	0.54	0.54	0.53	0.53	0.52	0.51	0.52	0.50	0.50	0.53	0.53	0.54	0.54

Attained Value	2.42	1.86	1.57	1.20	1.33	0.91	0.76	0.83	0.99	0.98	1.02	1.57	1.41	1.44
Target Value	2.35	1.87	1.53	1.24	1.33	0.89	0.85	0.81	1.00	1.05	0.99	1.58	1.49	1.47

Attained Value	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	2.42	1.86	1.57	1.20	1.33	0.91	0.76	0.83	0.99	0.98	1.02	1.57	1.41	1.44
90% of Target Value	2.35	1.87	1.53	1.24	1.33	0.89	0.85	0.81	1.00	1.05	0.99	1.58	1.49	1.47
Overall Target Value	2.61	2.08	1.71	1.38	1.48	0.99	0.95	0.90	1.11	1.16	1.10	1.75	1.65	1.63

PO /PSO Attained and Target Graphs Batch(2021-25)



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