



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY
KALITHEERTHALKUPPAM, PONDICHERRY.

Department of computer Science and Engineering

PO Attainment – Batch (2013-2017)

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
FIRST SEMESTER													
C101	Mathematics – I	3	3	3	3	-	-	-	-	-	-	-	3
C102	Physics	3	3	3	3	-	3	-	-	-	-	-	3
C103	Chemistry	3	3	3	-	-	3	3	-	-	-	-	3
C104	Basic Electrical and Electronics Engineering	3	3	3	-	-	3	3	-	-	-	3	3
C105	Engineering Thermodynamics	3	3	3	3	-	-	-	-	-	-	-	3
C106	Computer Programming	3	3	3	3	3	-	-	-	-	-	3	3
C107 (P)	Computer Programming lab	3	3	3	3	3	3	-	-	3	-	3	3
C108 (P)	Engineering Graphics	3	3	-	-	-	-	-	-	-	-	-	-
C109 (P)	Basic Electrical & Electronics Laboratory	3	3	-	-	-	3	3	-	3	3	3	3
SECOND SEMESTER													
C110	Mathematics – II	3	3	3	3	-	-	3	-	-	-	-	3
C111	Material Science	3	3	3	-	-	3	3	-	-	-	-	3
C112	Environmental Science	3	-	-	-	-	3	3	-	-	-	3	3

C113	Basic Civil and Mechanical Engineering	3	3	3	3	-	3	3	-	-	3	-	3
C114	Engineering Mechanics	3	3	-	3	-	3	-	-	-	3	-	3
C115	Communicative English	-	-	-	-	-	-	-	-	3	3	-	3
C116 (P)	Physics Laboratory	3	-	-	3	-	3	3	-	3	3	-	3
C117 (P)	Chemistry Laboratory	3	-	-	-	-	3	3	-	3	3	-	3
C118 (P)	Workshop Practice	-	-	3	-	-	-	-	-	-	-	-	-
C119 (P)	NSS / NCC *	3	-	-	-	3	3	3	3	3	3	3	3

THIRD SEMESTER

C201	Mathematics - III	3	3	3	3	-	-	3	-	-	-	-	3
C202	Electronics Devices and Circuits	3	-	-	3	-	-	-	-	-	-	3	3
C203	Object Oriented Programming and Design	3	3	3	3	3	3	-	-	-	-	3	3
C204	Digital System Design	3	3	3	3	3							3
C205	Data Structures	3	3	3	3	3	-	-	-	-	-	-	-
C206	Computer Organization and Architecture	3	3	3	-	3	-	-	-	-	-	-	3
C207 (P)	Electronics Devices and Circuits Lab	3	3	-	3	3	-	-	-	-	-	-	3
C208 (P)	Data Structures Laboratory	3	3	-	3	3	-	-	-	-	-	-	-
C209 (P)	Digital system design Laboratory	3	3	3	3	3	-	-	-	-	-	-	3

FOURTH SEMESTER

C210	Mathematics -IV	3	3	3	3	-	-	3	-	-	-	3	3
C211	Microprocessors and Microcontrollers	3	3	3	-	-	-	-	-	-	-	3	3
C212	Automata Languages and Computations	2	2	2	2	-	-	-	-	-	-	-	2
C213	Design and Analysis of Algorithms	3	3	3	3	3	-	-	-	-	-	-	-
C214	Object Oriented Programming	3	3	3	3	3	-	-	-	-	-	-	3
C215	Graphics and Image Processing	3	3	3	3	3	-	-	-	-	-	-	3
C216 (P)	Microprocessor and Microcontrollers Laboratory	3	3	3	-	-	-	-	-	-	-	3	-
C217 (P)	Design and Analysis of Algorithms Lab	3	3	-	3	3	-	-	-	-	-	-	-
C218 (P)	Object Oriented Programming Languages	3	3	3	3	3	-	-	-	-	-	-	3
C219 (P)	Physical Education*	3	3	3	3	3	3	3	3	3	3	3	3

FIFTH SEMESTER

C301	Operating Systems	3	3	3	3	3	-	-	-	-	-	-	3
C302	Computer Networks	3	3	3	3	3	3	-	-	-	-	3	3
C303	Database Management Systems	3	3	3	3	3	-	-	-	-	-	3	3
C304	Language Translators	3	3	3	3	-	-	-	-	-	-	-	3
C305	Software Engineering	3	3	3	3	-	-	-	-	-	-	3	3

C306 (P)	Operating Systems Laboratory	3	3	3	3	-	3	-	-	-	-	-	-
C307 (P)	Computer Networks Laboratory	3	3	3	3	3	-	-	-	-	-	-	3
C308 (P)	Database Management Systems Lab	3	3	3	3	-	-	-	-	-	-	3	3
C309	General Proficiency - I	-	-	-	-	-	-	-	-	3	3	-	-
SIXTH SEMESTER													
C310	Enterprises Solution	3	3	3	-	3	-	-	3	3	-	3	-
C311	Embedded Systems	3	3	3	-	3	-	-	-	-	-	-	-
C312	Web Technology	3	-	3	-	3	3	-	-	-	3	3	3
C313	Elective-I – OOAD	3	3	3	3	3	-	-	3	3	-	3	-
C314	Elective-II E-Business	3	-	3	3	3	-	-	-	-	-	-	3
C315 (P)	Enterprises Solutions Laboratory	3	3	3	-	3	-	-	3	3	-	3	-
C316 (P)	Embedded Systems Laboratory	3	3	3	-	3	-	-	-	-	-	-	-
C317 (P)	Web Technology Laboratory	3	-	3	-	-	-	-	-	-	-	3	-
C318 (P)	Industrial Visits/Training	3	3	3	3	3	3	3	3	3	3	3	3
C319 (P)	General Proficiency-II	-	-	-	-	-	-	-	-	3	3	3	3
SEVENTH SEMESTER													
C401	Artificial Intelligence	3	3	3	3	-	-	-	-	-	-	-	-

C402	Computer Hardware and Network Troubleshooting	3	3	3	-	3	-	-	-	-	-	-	-
C403	Platform Technology	3	3	3	3	3	-	-	-	-	-	3	3
C404	Software Testing and Quality Assurance	3	3	3	3	3	-	-	-	-	-	-	-
C405 (P)	Artificial Intelligence Laboratory	3	3	3	3	-	-	-	-	-	-	-	-
C406 (P)	Troubleshooting Laboratory	3	3	3	-	3	-	-	-	-	-	-	3
C407 (P)	Platform Technology Laboratory	3	3	3	3	3	-	-	-	-	-	3	3
C408 (P)	Project Work (Phase I)	3	3	3	3	3	3	3	3	3	3	3	3
EIGHTH SEMESTER													
C409	Engineering Economics and Management	-	-	-	-	-	-	-	3	3	-	3	-
C410	Information Security	3	3	3	3	-	-	-	-	-	-	-	-
C411	Elective-V – Mobile Computing	3	3	-	-	3	-	-	-	-	-	-	-
C412	Elective-VI - Grid Computing	3	3	3	3	3	-	3	-	-	-	3	3
C413 (P)	Professional Ethics Practice	3	-	-	-	-	-	-	3	3	-	-	3
C414 (P)	Seminar	3	3	3	3	-	-	-	3	3	3	3	3
C415 (P)	Comprehensive Viva-Voce	3	3	3	3	3	3	3	3	-	3	3	3
C416 (P)	Project Work (Phase-II)	3	3	3	3	3	3	3	3	3	3	3	3

Table B.3.3.2a

TARGETTED POs OF 2013-17 BATCH is fixed at 3 for all POs

PO Attainment Level –Direct Assessment

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Avg of Direct Assessment	2.99	2.98	2.98	2.98	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.98
Weightage of 80% of Direct POs	2.39	2.38	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.38	2.39	2.38

PO Attainment Level –InDirect Assessment

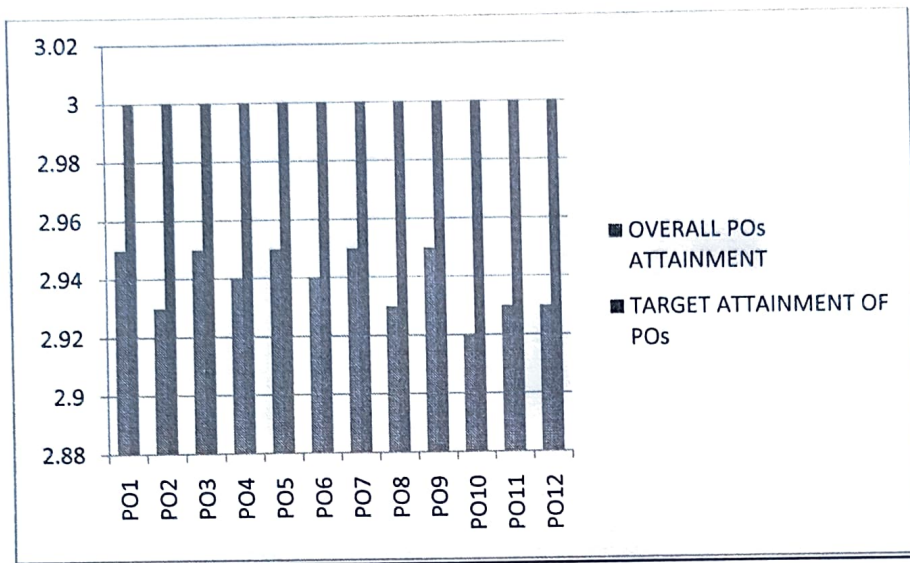
SURVEYs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Student exit survey	2.97	2.86	2.81	2.89	2.86	2.73	2.86	2.84	2.89	2.84	2.76	2.84
Alumni survey	2.82	2.8	2.76	2.74	2.73	2.74	2.78	2.61	2.63	2.64	2.67	2.71
Employer survey	2.55	2.57	2.61	2.53	2.67	2.64	2.6	2.52	2.68	2.64	2.61	2.64
Avg of 3 surveys	2.78	2.74	2.73	2.72	2.75	2.70	2.75	2.66	2.73	2.71	2.68	2.73
Weightage of 20% of in direct POs	0.56	0.55	0.55	0.54	0.55	0.54	0.55	0.53	0.55	0.54	0.54	0.55

B. Overall Levels of Attainment (16)

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
(DIRECT 80%)	2.39	2.38	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.38	2.39	2.38
(INDIRECT 20%)	0.56	0.55	0.55	0.54	0.55	0.54	0.55	0.53	0.55	0.54	0.54	0.55
OVERALL POS ATTAINMENT	2.95	2.93	2.95	2.94	2.95	2.94	2.95	2.93	2.95	2.92	2.93	2.93
TARGET ATTAINMENT OF POS	3	3	3	3	3	3	3	3	3	3	3	3

Table B.3.3.2a

Overall POs Attainment for the Batch (2013-2017)



Batch (2013-2017)**Attainment of PSO – (2013-2017)**

FIRST SEMESTER			
Course Code	Course Name	PSO1	PSO2
C101	Mathematics – I	3	3
C102	Physics	3	3
C103	Chemistry	3	-
C104	Basic electrical and electronics Engineering	3	3
C105	Engineering Thermodynamics	3	-
C106	Computer Programming	3	3
C107(P)	Computer Programming lab	3	3
C108(P)	Engineering Graphics	-	3
C109(P)	Basic Electrical & Electronics Laboratory	-	-
SECOND SEMESTER			
C110	Mathematics – II	3	3
C111	Material Science	3	3
C112	Environmental Science	3	3
C113	Basic Civil and Mechanical Engineering	3	-
C114	Engineering Mechanics	-	-
C115	Communicative English	3	3
C116(P)	Physics Laboratory	3	3
C117(P)	Chemistry Laboratory	-	-
C118(P)	Workshop Practice	3	-
C119(P)	NSS / NCC *	-	-
THIRD SEMESTER			
C201	Mathematics - III	3	3
C202	Electronics Devices and Circuits	3	3
C203	Object Oriented Programming and Design	3	3
C204	Digital System Design	3	3
C205	Data Structures	3	3
C206	Computer Organization and Architecture	3	3
C207(P)	Electronics Devices and Circuits Lab	3	3

C208(P)	Data Structures Laboratory	3	-
C209(P)	Digital system design Laboratory	3	3
FOURTH SEMESTER			
C210	Mathematics -IV	3	3
C211	Microprocessors and Microcontrollers	3	3
C212	Automata Languages and Computations	2	-
C213	Design and Analysis of Algorithms	3	3
C214	Object Oriented Programming	3	3
C215	Graphics and Image Processing	3	3
C216(P)	Microprocessor and Microcontrollers Laboratory	3	3
C217(P)	Design and Analysis of Algorithms Lab	3	-
C218(P)	Object Oriented Programming Languages	3	3
C219(P)	Physical Education*	-	-
FIFTH SEMESTER			
C301	Operating Systems	3	3
C302	Computer Networks	3	3
C303	Database Management Systems	3	3
C304	Language Translators	3	-
C305	Software Engineering	3	3
C306(P)	Operating Systems Laboratory	3	3
C307(P)	Computer Networks Laboratory	3	-
C308(P)	Database Management Systems Lab	3	3
C309	General Proficiency - I	-	3
SIXTH SEMESTER			
C310	Enterprises Solution	-	3
C311	Embedded Systems	3	3
C312	Web Technology	-	3
C313	Elective-I – OOAD	3	3
C314	Elective-II –E-Business	-	3
C315(P)	Enterprises Solutions Laboratory	-	3
C316(P)	Embedded Systems Laboratory	3	3
C317(P)	Web Technology Laboratory	-	3
C318(P)	Industrial Visits/Training	3	3

C319	General Proficiency-II	-	3
SEVENTH SEMESTER			
C401	Artificial Intelligence	3	3
C402	Computer Hardware and Network Troubleshooting	3	3
C403	Platform Technology	3	3
C404	Software Testing and Quality Assurance	3	3
C405(P)	Artificial Intelligence Laboratory	3	3
C406(P)	Troubleshooting Laboratory	3	3
C407(P)	Platform Technology Laboratory	3	3
C408(P)	Project Work (Phase I)	3	3
EIGHTH SEMESTER			
C409	Engineering Economics and Management	-	3
C410	Information Security	-	3
C411	Elective-V –Mobile Computing	3	3
C412	Elective-VI - Grid Computing	3	3
C413(P)	Professional Ethics Practice	-	3
C414(P)	Seminar	3	3
C415(P)	Comprehensive Viva-Voce	3	3
C416(P)	Project Work (Phase-II)	3	3

Table B. 3.3.2b
TARGETTED PSOs OF 2013-17 BATCH is fixed at 3 for all PSOs
PSO Attainment Level –Direct Assessment

PSOs	PSO1	PSO2
Avg of Direct Assessment	2.93	3.00
Weightage of 80% of Direct PSOs	2.35	2.40

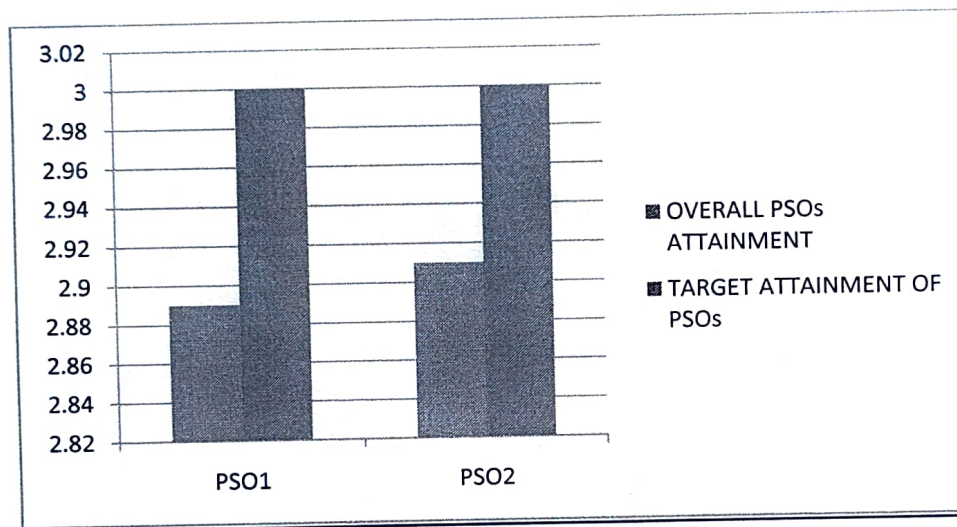
PSO Attainment Level –InDirect Assessment

SURVEYs	PSO1	PSO2
Student exit survey	2.84	2.89
Alumni survey	2.74	2.76
Employer survey	2.54	2.64
Avg of 3 surveys	2.71	2.76
Weightage of 20% of indirect PSOs	0.54	0.55

B. Overall Levels of Attainment (16)

PSOs	PSO1	PSO2
(DIRECT 80%)	2.35	2.40
(INDIRECT 20%)	0.54	0.51
OVERALL PSOs ATTAINMENT	2.89	2.91
TARGET ATTAINMENT OF PSOs	3	3

Overall PSOs Attainment for the Batch (2013-2017)



Dr. S. Pariselvam

Dr.S. PARISELVAM, M.E., Ph.D.,
Professor and Head
Dept. of Computer Science & Engineering
Manakula Vinayagar Institute of Technology
Madagadipet, Puducherry - 605 107.