

E.G.S. PILLAY ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade | Accredited by NBA (CSE, EEE, MECH,
IT, ECE, CIVIL)

NAGAPATTINAM – 611 002



B.Tech. INFORMATION TECHNOLOGY

First Year – First Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
Theory Course								
1901MA102	Engineering Mathematics –I (Calculus and LinearAlgebra)	3	2	0	4	40	60	100
1901CH101	Applied Chemistry in Informatics	3	0	0	3	40	60	100
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100
1901ENX01	English for Engineers	2	0	0	2	40	60	100
Laboratory Course								
1901GEX52	Computer Programming Lab	0	0	2	1	50	50	100
1901GE151	Engineering Intelligence I	0	0	2	1	100	0	100
1901CHX51	Engineering Chemistry Lab	0	0	2	1	50	50	100
1901HSX51	Communication Skill Lab	0	0	2	1	50	50	100
		11	2	8	16	410	390	800

L – Lecture | T – Tutorial | P – Practical | CA – Continuous Assessment


Dr. S. MANIKANDAN, M. E., Ph.D
Head of the Department
Department of Information Technology
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B.TECH. INFORMATION TECHNOLOGY
First Year – Second Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
Theory Course								
1901MA202	Engineering Mathematics –II	3	2	0	4	40	60	100
1901PH201	Physics for Information Science	3	0	0	3	40	60	100
1901GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100
1901GE201	Engineering Exploration	2	0	0	2	100	0	100
Laboratory Course								
1901GE254	Computer Hardware and IT Essentials Lab	0	0	2	1	50	50	100
1901GE252	Engineering Intelligence - II	0	0	2	1	100	0	100
1901GEX51	CAD Lab	0	0	2	1	50	50	100
1901GEX53	Basic Electrical and Electronics Engineering Lab	0	0	2	1	50	50	100
1901PHX51	Engineering Physics Lab	0	0	2	1	50	50	100
Total		13	2	12	20	570	430	1000

L – Lecture | T – Tutorial | P – Practical | CA – Continuous Assessment | ES – End Semester

(Signature)

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B.TECH. INFORMATION TECHNOLOGY R-2019

Full Time Curriculum and Syllabus (III – VIII Semesters) SECOND YEAR

SEMESTER III										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Theory Course										
1901MA301	Engineering Mathematics III (Probability, Queuing Theory and Statistics)	3	2	0	4	40	60	100		BS
1902IT301	Data Structures and Algorithms	3	0	0	3	40	60	100		PC
1902IT302	Computer Organization and Architecture	3	0	0	3	40	60	100		PC
1902IT303	Digital Principles and Design	3	0	0	3	40	60	100		PC
1902IT304	Problem solving using Python	3	0	0	3	40	60	100		PC
1902IT305	Biology for IT	3	0	0	3	40	60	100		BS
Laboratory Course										
1902IT351	Data Structures and Algorithms Lab	0	0	2	1	50	50	100		PC
1902IT352	Digital Principles and Design Lab	0	0	2	1	50	50	100		PC
1902IT353	Python Programming Lab	0	0	2	1	50	50	100		PC
1904GE351	Life Skills: Verbal Ability	0	0	2	1	100	-	100		EEC
Audit Course										
	Constitution of India	2	0	0	-	100	-	100		-
Total		20	2	8	23	590	510	1100		-

SEMESTER IV										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Theory Course										
1902IT401	Database Management Systems	3	0	0	3	40	60	100		BS
1902IT402	Java Programming	3	0	0	3	40	60	100		PC
1902IT403	Operating Systems	3	0	0	3	40	60	100		PC
1902IT404	Software Engineering and Project Management	3	0	0	3	40	60	100		PC
1902IT405	Computer Networks	3	2	0	4	40	60	100		PC
1902IT406	Principles of Communication	3	0	0	3	40	60	100		PC
Laboratory Course										
1902IT451	Database Management Systems Lab	0	0	2	1	50	50	100		PC
1902IT452	Java Programming Lab	0	0	2	1	50	50	100		PC
1902IT453	Operating Systems Lab	0	0	2	1	50	50	100		PC
1904GE451	Life Skills: Softskill	0	0	2	1	100	-	100		EEC
Audit Course										
	Environmental Sciences	2	0	0	-	100	-	100		-
Total		20	2	8	23	590	510	1100		-

THIRD YEAR

SEMESTER V										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Theory Course										
1902IT501	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC	
1902IT502	Web Programming	3	0	0	3	40	60	100	PC	
1902IT503	Security in Computing	3	0	0	3	40	60	100	PC	
1902IT504	Internet of Things	3	0	0	3	40	60	100	PC	
	Professional Core Elective I	3	0	0	3	40	60	100	PE	
	Humanities Science Elective I	3	0	0	3	40	60	100	HSSE	
Laboratory Course										
1902IT551	Web Programming Lab	0	0	2	1	50	50	100	PC	
1904IT551	Case Tools (Mini Project I)	0	0	2	1	50	50	100	EEC	
1904GE551	Life Skills: Aptitude I	0	0	2	1	100	-	100	EEC	
1904IT552	Startup Opportunities for IT Engineers	0	0	2	1	100	-	100	EEC	
Audit Course										
	Essence of Indian Traditional Knowledge	2	0	0	-	100	-	100		
Total		20	0	8	22	640	460	1100	-	

SEMESTER VI										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Theory Course										
1902IT601	Artificial Intelligence	3	0	0	3	40	60	100	PC	
1902IT602	Mobile Computing	3	0	0	3	40	60	100	PC	
1902IT603	Data Warehousing and Data Mining	3	0	0	3	40	60	100	PC	
	Professional Core Elective II	3	0	0	3	40	60	100	PE	
	Humanities Science Elective II	3	0	0	3	40	60	100	HSSE	
	Open Elective - I	3	0	0	3	40	60	100	OE	
Laboratory Course										
1904IT651	Mobile Application Development (Mini Project II)	0	0	2	1	50	50	100	EEC	
1904GE651	Life Skills: Aptitude II & GD	0	0	2	1	100	-	100	EEC	
1904IT652	Industrial Visit Presentation	0	0	0	1	100	-	100	EEC	
Total		18	0	6	21	490	410	900		

FINAL YEAR

SEMESTER VII										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Theory Course										
	Professional Ethics	3	0	0	3	40	60	100	HS	
1902IT701	Cloud Computing	3	0	0	3	40	60	100	PC	
	Professional Core Elective III	3	0	0	3	40	60	100	PE	
	Humanities Science Elective III	3	0	0	3	40	60	100	HSSE	
	Open Elective - II	3	0	0	3	40	60	100	OE	
Laboratory Course										
1904IT751	Software Development (Mini Project III)	0	0	2	1	50	50	100	EEC	
1904GE751	Life Skills: Comprehensive	2	0	0	2	100	-	100	EEC	
Total		17	0	2	18	350	350	700	-	

SEMESTER VIII										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Theory Course										
	Professional Core Elective IV	3	0	0	3	40	60	100	PE	
	Professional Core Elective V	3	0	0	3	40	60	100	PE	
Laboratory Course										
1904IT851	Project Work	0	0	14	7	50	50	100	EEC	
Total		6	0	14	13	130	170	300	-	