

# 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, CIVIL, ECE)

NAGAPATTINAM – 611 002



## B.Tech. Information

### Technology

#### Full Time Curriculum and Syllabus

#### First Year – First Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
1701MA101	Engineering Mathematics - I	3	2	0	4	40	60	100
1701PH101	Applied Physics for Engineers	3	0	0	3	40	60	100
1701EN101	Technical English	3	0	0	3	100	0	100
1701CH101	Applied Chemistry in Informatics	3	0	0	3	40	60	100
1701GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100
1701GEX02	Engineering Graphics	2	2	0	3	50	50	100
1701GEX03	Programming in C	3	0	0	3	40	60	100
<b>Laboratory Course</b>								
1701HS151	Physics and Chemistry Lab – I	0	0	2	1	50	50	100
1701GEX51	Programming in C Lab	0	0	2	1	50	50	100
1701GEX52	Communication Skills Lab	0	0	2	1	50	50	100
<b>Total</b>		20	4	6	25	500	500	1000

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

**E.G.S. Pillay Engineering College,**

**Thethi, Nagore - 611 002**

**Nagapattinam (Dt) Tan**

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## B.Tech. Information Technology

### Full Time Curriculum and Syllabus

#### First Year – Second Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
1701MA201	Engineering Mathematics - II	3	2	0	4	40	60	100
1701PH201	Physics of Engineering Materials	3	0	0	3	40	60	100
1701CH201	Environmental Studies	3	0	0	3	40	60	100
1701GE201	Basic Civil and Mechanical Engineering	3	0	0	3	40	60	100
1702CS201	Programming in C++	3	0	0	3	40	60	100
1701LE201 / 1701LE202	Communicative English / Communicative Hindi	3	0	0	3	100	-	100
<b>Laboratory Course</b>								
1701GEX53	Workshop Practice	0	0	2	1	50	50	100
1701HS251	Physics and Chemistry Lab - II	0	0	2	1	50	50	100
1702CS251	Programming in C++ Lab	0	0	2	1	50	50	100
Total		18	2	6	22	450	450	900

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## B.Tech. Information Technology

### Full Time Curriculum and Syllabus

First Year – First Semester

Second Year – Third Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
1701MA301	Engineering Mathematics - III	3	2	0	4	40	60	100
1702IT301	Data Structures and Algorithms	3	0	2	4	50	50	100
1702IT302	Digital Principles and Design	3	0	2	4	50	50	100
1702IT303	Principles of Communication	3	0	0	3	40	60	100
1702IT304	Computer Organization and Architecture	3	0	0	3	40	60	100
1702CSX02	Database Management Systems	3	0	0	3	40	60	100
<b>Laboratory Course</b>								
1702CSX52	Database Management Systems Lab	0	0	2	1	50	50	100
1704GE351	Life Skills: Soft Skills	0	0	2	1	100	-	100
Total		18	2	8	23	410	390	800

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## B.Tech. Information

### Technology

#### Full Time Curriculum and Syllabus

#### Second Year – Fourth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
1701MA401	Probability and Queuing Theory	3	2	0	4	40	60	100
1702IT401	Software Engineering and Project Management	3	0	0	3	40	60	100
1702IT402	Java Programming	2	0	4	4	50	50	100
1702IT403	Internet of Things	2	4	0	4	40	60	100
1702IT404	Operating Systems	3	0	2	4	50	50	100
1702IT405	Computer Networks	3	0	0	3	40	60	100
1701CH201	Environmental Studies #	3	0	0	3	40	60	100
<b>Laboratory Course</b>								
1702IT451	Networks Lab	0	0	2	1	50	50	100
1704GE451	Life Skills: Verbal Ability	0	0	2	1	100	-	100
Total		19	6	10	27	450	450	900

# As per EGSPECR2017 regulation 1701CH201 – Environmental studies course will be offered for lateral entry students

Regular Students Total Credit: 24 and Lateral Entry Students Total Credit: 27

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## B.Tech. Information Technology

### Full Time Curriculum and Syllabus

Third Year – Fifth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
1702IT501	Object Oriented Analysis and Design	3	0	0	3	40	60	100
1702IT502	Distributed Computing	3	0	0	3	40	60	100
1702IT503	Computer Graphics and Multimedia	3	0	2	4	50	50	100
1702IT504	Web Programming	3	0	2	4	50	50	100
	Professional Elective - 1	3	0	0	3	40	60	100
	Professional Elective - 2	3	0	0	3	40	60	100
<b>Laboratory Course</b>								
1704IT551	Case Tools (Mini Project - I)	0	0	2	1	50	50	100
1704GE551	Life Skills: Aptitude - I	0	0	2	1	100	-	100
1704IT552	Technical Seminar	0	0	2	1	100	-	100
	Total	18	0	10	23	510	390	900

ATTESTED

*[Signature]*  
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## B.Tech. Information

### Technology

#### Full Time Curriculum and Syllabus

#### Third Year – Sixth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
1702IT601	C# and .NET	2	0	4	4	50	50	100
1702IT602	Mobile Computing	3	0	0	3	40	60	100
1702IT603	Data Warehousing and Data Mining	3	0	2	4	50	50	100
1702IT604	Wireless Communication	3	0	0	3	40	60	100
	Professional Elective - 3	3	0	0	3	40	60	100
	Open Elective - 1	3	0	0	3	40	60	100
<b>Laboratory Course</b>								
1704IT651	Mobile Application Development (Mini Project - II)	0	0	2	1	50	50	100
1704GE651	Life Skills: Aptitude - II	0	0	2	1	100	-	100
1704IT652	Industrial Visit Presentation	0	0	0	1	100	-	100
Total		17	0	10	23	510	390	900

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*(Signature)*

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## B.Tech. Information

### Technology

#### Full Time Curriculum and Syllabus

#### Fourth Year – Seventh Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			
						CA	ES	Total	
<b>Theory Course</b>									
1701MGX01	Professional Ethics	3	0	0	3	40	60	100	
1702IT701	Data Analytics	3	2	0	4	40	60	100	
1702IT702	Security in Computing	3	0	2	4	50	50	100	
1702IT703	Cloud Infrastructure and Computing	3	2	0	4	40	60	100	
	Professional Elective – 4	3	0	0	3	40	60	100	
	Open Elective – 2	3	0	0	3	40	60	100	
<b>Laboratory Course</b>									
1704IT751	Software Development (Mini Project - III)	0	0	2	1	50	50	100	
1704GE751	Life Skills: Competitive Exams Preparation	2	0	0	2	100	-	100	
1704IT752	In-Plant / Internship Training Presentation	0	0	0	1	100	0	100	
	Total	20	4	4	25	500	400	900	

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## B.Tech. Information

### Technology

#### Full Time Curriculum and Syllabus

#### Fourth Year – Eighth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
<b>Theory Course</b>								
	Professional Elective – 5	3	0	0	3	40	60	100
	Professional Elective – 6	3	0	0	3	40	60	100
	Professional Elective – 7	3	0	0	3	40	60	100
<b>Laboratory Course</b>								
1704IT851	Project Work	0	0	18	9	50	50	100
	Total	9	0	18	18	170	230	400

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## LIST OF ELECTIVES

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
<b>ELECTIVE - I</b>									
1703IT001	Advanced Database Technology	3	0	0	3	40	60	100	PE
1703IT002	Network Programming and Management	3	0	0	3	40	60	100	PE
1703IT003	Artificial Intelligence	3	0	0	3	40	60	100	PE
1703IT004	Theory of Computation	3	0	0	3	40	60	100	PE
1703IT005	Software Testing Methods and Tools	3	0	0	3	40	60	100	PE
<b>ELECTIVE - II</b>									
1703IT006	Multi core Programming	3	0	0	3	40	60	100	PE
1703IT007	Information Theory and Coding	3	0	0	3	40	60	100	PE
1703IT008	Compiler Design	3	0	0	3	40	60	100	PE
1703IT009	Embedded Systems	3	0	0	3	40	60	100	PE
1703IT010	Mainframe Computing	3	0	0	3	40	60	100	PE
<b>ELECTIVE - III</b>									
1703MG002	Principles of Management	3	0	0	3	40	60	100	PE
1703IT011	Social Network Analysis	3	0	0	3	40	60	100	PE
1703IT012	Open Source Programming	3	0	0	3	40	60	100	PE
1703IT013	Software Architecture	3	0	0	3	40	60	100	PE
1703IT014	Computer Vision	3	0	0	3	40	60	100	PE
<b>ELECTIVE - IV</b>									
1703IT015	Information Management	3	0	0	3	40	60	100	PE
1703MG001	Total Quality Management	3	0	0	3	40	60	100	PE
1703IT016	Data Centre And Virtualization	3	0	0	3	40	60	100	PE
1703IT017	Software Configuration Management	3	0	0	3	40	60	100	PE
1703IT018	Enterprise Resource Planning	3	0	0	3	40	60	100	PE
<b>ELECTIVE - V</b>									
1703IT019	Cyber Forensics	3	0	0	3	40	60	100	PE
1703IT020	Robot Programming	3	0	0	3	40	60	100	PE
1703CS020	Soft Computing	3	0	0	3	40	60	100	PE
1703IT021	Natural Language Processing	3	0	0	3	40	60	100	PE
1703IT022	Service Oriented Architecture	3	0	0	3	40	60	100	PE
<b>ELECTIVE - VI</b>									
1703IT023	Human Computer Interaction	3	0	0	3	40	60	100	PE
1703MG003	Human Rights	3	0	0	3	40	60	100	PE
1703IT024	Graph Theory	3	0	0	3	40	60	100	PE
1703IT025	Software Quality Assurance	3	0	0	3	40	60	100	PE
1703IT026	Game Programming	3	0	0	3	40	60	100	PE
<b>ELECTIVE - VII</b>									
1703MG004	Intellectual Property Rights	3	0	0	3	40	60	100	PE
1703IT027	Deep Learning	3	0	0	3	40	60	100	PE
1703IT028	Business Intelligence	3	0	0	3	40	60	100	PE
1703IT029	Visualization Techniques	3	0	0	3	40	60	100	PE
1703IT030	Bio Informatics	3	0	0	3	40	60	100	PE

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