



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

MASTER OF COMPUTER APPLICATIONS

Curriculum and Syllabi

Minimum Credits to be earned: 117

SEMESTER I									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1701CA101	Mathematical Foundations of Computer Applications	2	2	0	3	40	60	100	FC
1702CA102	Problem Solving and C Programming	3	0	0	3	40	60	100	PC
1702CA103	Database Management Systems	3	0	0	3	40	60	100	PC
1702CA104	Data Structures	2	2	0	3	40	60	100	PC
1702CA105	Computer Organization and Design	3	0	0	3	40	60	100	PC
Laboratory Course									
1702CA106	Data structures and Programming Laboratory	0	0	4	2	50	50	100	PC
1702CA107	Database Management Systems Laboratory	0	0	4	2	50	50	100	PC
1704CA108	Life Skill I - Business English	0	0	2	1	100	-	100	EEC
Total		13	4	10	20	400	400	800	
SEMESTER II									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702CA201	Computer Communications and Networks	3	0	0	3	40	60	100	PC
1702CA202	Operating System Concepts	3	0	0	3	40	60	100	PC
1702CA203	Software Engineering Methodologies	3	0	0	3	40	60	100	PC
1702CA204	Design and Analysis of Algorithms	3	0	0	3	40	60	100	PC
1702CA205	Object Oriented Programming	3	0	0	3	40	60	100	PC
Laboratory Course									
1702CA206	OOP and Algorithms Laboratory	0	0	4	2	50	50	100	PC
1702CA207	OS and Network Programming Laboratory	0	0	4	2	50	50	100	PC
1704CA208	Life Skill II- Verbal Ability	0	0	2	1	100	-	100	EEC
Total		15	0	10	20	400	400	800	
SEMESTER III									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1701CA301	Resource Management Techniques	2	2	0	3	40	60	100	FC
1702CA302	Data Warehousing and Mining	3	0	0	3	40	60	100	PC
1702CA303	Object Oriented Analysis and Design	3	0	0	3	40	60	100	PC
1702CA304	Web Programming	3	0	0	3	40	60	100	PC
	Elective I	3	0	0	3	40	60	100	PE
Laboratory Course									
1702CA305	Web Programming Laboratory	0	0	4	2	50	50	100	PC
1702CA306	CASE Tools Laboratory	0	0	4	2	50	50	100	PC
1704CA307	Technical Seminar and Report Writing	0	0	2	1	50	50	100	EEC
1704CA308	Life Skill III- Aptitude I	0	0	2	1	100	-	100	EEC
Total		14	2	12	21	450	450	900	

ATTESTED

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

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002

Nagapattinam (Dt) Tamil Nadu

SEMESTER IV									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702CA401	Advanced Java Programming	3	0	0	3	40	60	100	PC
1702CA402	Cryptography and Network Security	3	0	0	3	40	60	100	PC
1702CA403	Mobile Computing	3	0	0	3	40	60	100	PC
	Elective II	3	0	0	3	40	60	100	PE
	Elective III	3	0	0	3	40	60	100	PE
Laboratory Course									
1702CA404	Advanced Java Programming Laboratory	0	0	4	2	50	50	100	PC
1702CA405	Mobile Application Development Laboratory	0	0	4	2	50	50	100	PC
1704CA406	Soft Skills Development Laboratory	0	0	2	1	50	50	100	EEC
1704CA407	Life Skill IV- Aptitude II	0	0	2	1	100	-	100	EEC
Total		15	0	12	21	450	450	900	

SEMESTER V									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702CA501	Software Testing	3	0	0	3	40	60	100	PC
1702CA502	Virtualization and Cloud Computing	3	0	2	4	40	60	100	PC
1702CA503	Python Programming	3	0	0	3	40	60	100	PC
	Elective IV	3	0	0	3	40	60	100	PE
	Elective V	3	0	0	3	40	60	100	PE
Laboratory Course									
1702CA504	Software Testing Laboratory	0	0	4	2	50	50	100	PC
1702CA505	Python Programming Laboratory	0	0	4	2	50	50	100	PC
1704CA506	Mini Project using .NET	0	0	4	2	50	50	100	EEC
1704CA507	Life Skill V- Competitive Exam Preparation	0	0	2	1	100	-	100	EEC
Total		15	0	16	23	450	450	900	

SEMESTER VI									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1704CA601	Project Work	0	0	24	12	200	200	400	EEC
Total		0	0	24	12	200	200	400	

ATTESTED

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

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002
Nagapattinam (Dt) Tamil Nadu.

LIST OF ELECTIVES

ELECTIVE I						
Course Code	Course Name	L	T	P	C	Category
1703CA001	Service Oriented Architecture	3	0	0	3	PE
1703CA002	High Speed Networks	3	0	0	3	PE
1703CA003	TCP/IP Design and Implementation	3	0	0	3	PE
1703CA004	Computer Graphics and Animation	3	0	0	3	PE
1703CA005	Database Tuning	3	0	0	3	PE
1703CA006	Software Quality Management	3	0	0	3	PE

ELECTIVE II						
Course Code	Course Name	L	T	P	C	Category
1703CA007	Real Time Systems	3	0	0	3	PE
1703CA008	Fundamental of Digital Image Processing	3	0	0	3	PE
1703CA009	Data Analytic Using R Tool	3	0	0	3	PE
1703CA010	Grid Computing	3	0	0	3	PE
1703CA011	Internet of Things	3	0	0	3	PE
1703CA012	XML and Web Services	3	0	0	3	PE

ELECTIVE III						
Course Code	Course Name	L	T	P	C	Category
1703CA013	Geographical Information Systems	3	0	0	3	PE
1703CA014	Healthcare Information Systems	3	0	0	3	PE
1703CA015	Machine Learning Techniques	3	0	0	3	PE
1703CA016	Big Data Analytics	3	0	0	3	PE
1703CA017	Enterprise Resource Planning	3	0	0	3	PE
1703CA018	Multimedia	3	0	0	3	PE

ELECTIVE IV						
Course Code	Course Name	L	T	P	C	Category
1703CA019	Information Management System	3	0	0	3	PE
1703CA020	E-Commerce	3	0	0	3	PE
1703CA021	Software Reliability and Metrics	3	0	0	3	PE
1703CA022	Visualization Techniques	3	0	0	3	PE
1703CA023	Bio Informatics	3	0	0	3	PE
1703CA024	Intelligent Data Analysis	3	0	0	3	PE

ELECTIVE V						
Course Code	Course Name	L	T	P	C	Category
1703CA025	Financial Accounting and Management	3	0	0	3	PE
1703CA026	Human Resources Management	3	0	0	3	PE
1703CA027	Customer Relationship Management	3	0	0	3	PE
1703CA028	Data Science Using R Tool	3	0	0	3	PE
1703CA029	Game Programming	3	0	0	3	PE
1703CA030	Professional Practice and Ethics	3	0	0	3	PE