



**E.G.S Pillay Engineering College**  
An Autonomous Institution, An ISO 9001-2008 Certified Institution  
Accredited by NAAC with 'A' Grade, Accredited by NBA (CSE, EEE & MECH)  
Approved by AICTE - New Delhi, Affiliated by Anna University - Chennai  
**Nagapattinam – 611002.**



**M.E. Communication Systems**  
**Regulation 2017 (R2017)**

Total Credits to be earned for the award of the Degree: 69

**Full Time Curriculum and Syllabus**

SEMESTER I										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
<b>Theory Course</b>										
1701CO101	Applied Engineering Mathematics	2	2	0	3	40	60	100	PC	
1702CO102	Advanced Digital Signal Processing	2	2	0	3	40	60	100	PC	
1702CO103	High Speed Communication Networks	3	0	0	3	40	60	100	PC	
1702CO104	Advanced Digital Communication	3	0	0	3	40	60	100	PC	
1702CO105	Wireless Communication Engineering	3	0	0	3	40	60	100	PC	
	Elective -I	3	0	0	3	40	60	100	PE	
<b>Laboratory Course</b>										
1704CO106	Signals Processing and Communication Laboratory	0	0	2	1	50	50	100	PC	
1704CO107	Wireless Communication Networks Lab	0	0	2	1	50	50	100	PC	
1704CO108	Communication Skills Laboratory -I	0	0	2	1	100	0	100	EEC	
<b>Total</b>		<b>18</b>	<b>4</b>	<b>10</b>	<b>21</b>	<b>440</b>	<b>460</b>	<b>900</b>		

SEMESTER II										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
<b>Theory Course</b>										
1702CO201	FPGA Based Communication System Design	3	0	0	3	40	60	100	PC	
1702CO202	Microwave Integrated Circuits	3	0	0	3	40	60	100	PC	
1702CO203	Optical Switching and Networking	3	0	0	3	40	60	100	PC	
1702CO204	Information Theory and Coding	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	
<b>Laboratory Course</b>										
1704CO205	RF System Design Laboratory	0	0	2	1	50	50	100	PC	
1704CO206	Technical Seminar	0	0	2	1	100	0	100	EEC	
1704CO207	Communication Skills Laboratory -II	0	0	2	1	50	50	100	EEC	
<b>Total</b>		<b>18</b>	<b>0</b>	<b>8</b>	<b>21</b>	<b>440</b>	<b>460</b>	<b>900</b>		

SEMESTER III										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
	Elective IV	3	0	0	3	40	60	100	PE	
	Elective V	3	0	0	3	40	60	100	PE	
	Elective VI	3	0	0	3	40	60	100	PE	
1704CO301	Project Work Phase -I	0	0	12	6	50	50	100	EEC	
<b>Total</b>		<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>	<b>170</b>	<b>230</b>	<b>400</b>		

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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Nagapattinam (Dt) Tamil Nadu.

SEMESTER IV									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1704CO401	Project Work Phase -II	0	0	24	12	50	50	100	EEC
<b>Total</b>		<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>50</b>	<b>50</b>	<b>100</b>	

**List of Electives Offered for / by M.E – Communication Systems**

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
1703CO001	Advanced Digital Image processing	3	0	0	3	40	60	100	PE
1703CO002	Cognitive Radio	3	0	0	3	40	60	100	PE
1703CO003	Multimedia Compression Techniques	3	0	0	3	40	60	100	PE
1703CO004	Communication Protocol engineering	3	0	0	3	40	60	100	PE
1703CO005	Pattern Recognition and Artificial Intelligent Techniques	3	0	0	3	40	60	100	PE
1703CO006	High Performance Computing	3	0	0	3	40	60	100	PE
1703CO007	Advanced Wireless Networks	3	0	0	3	40	60	100	PE
1703CO008	Information Retrieval Techniques	3	0	0	3	40	60	100	PE
1703CO009	Network Routing Algorithms	3	0	0	3	40	60	100	PE
1703CO010	Advanced Wireless Communication Engineering	3	0	0	3	40	60	100	PE
1703CO011	Data Converters	3	0	0	3	40	60	100	PE
1703CO012	Electromagnetic Interference and Compatibility in System Design	3	0	0	3	40	60	100	PE
1703CO013	Evolutionary Computing	3	0	0	3	40	60	100	PE
1703CO014	Microwave Remote Sensing	3	0	0	3	40	60	100	PE
1703CO015	Speech and Audio Signal Processing	3	0	0	3	40	60	100	PE
1703CO016	RF System Design for Wireless Communication	3	0	0	3	40	60	100	PE
1703CO 017	Mobile Adhoc Networks	3	0	0	3	40	60	100	PE
1703CO018	Advanced Fiber Optic Technologies	3	0	0	3	40	60	100	PE
1703CO019	Telecommunication System Modeling and Simulation	3	0	0	3	40	60	100	PE
1703CO020	Advanced Microwave Communication	3	0	0	3	40	60	100	PE
1703CO021	Space Time Communication	3	0	0	3	40	60	100	PE
1703CO022	Advanced Display System	3	0	0	3	40	60	100	PE
1703CO023	Software Defined Radio	3	0	0	3	40	60	100	PE
1703CO024	Machine Learning Algorithms	3	0	0	3	40	60	100	PE
1703CO025	Network Engineering and Management	3	0	0	3	40	60	100	PE
1703CO026	Communication Network Security	3	0	0	3	40	60	100	PE
1703CO027	Database Management System	3	0	0	3	40	60	100	PE
1703CO028	RFIC Design	3	0	0	3	40	60	100	PE
1703CO029	Base band algorithms on FPGA	3	0	0	3	40	60	100	PE
1703CO030	Radiating Systems	3	0	0	3	40	60	100	PE
1703CO031	Beam forming in Wireless Communication	3	0	0	3	40	60	100	PE
1703CO032	Distributed Embedded Computing	3	0	0	3	40	60	100	PE
<b>Open Electives</b>									
1703CO033	Wireless Sensor Networks	3	0	0	3	40	60	100	PE
1703CO034	Optical Signal Processing	3	0	0	3	40	60	100	PE
1703CO035	High Speed Switching Architecture	3	0	0	3	40	60	100	PE
1703CO036	Smart Antennas	3	0	0	3	40	60	100	PE
<b>Self-Study Electives</b>									
1703CO037	Neural Computing	3	0	0	3	40	60	100	PE
1703CO038	Biometrics for Network Security	3	0	0	3	40	60	100	PE

  
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1703CO039	Medical Image Processing	3	0	0	3	40	60	100	PE
1703CO040	Robotics and Automation	3	0	0	3	40	60	100	PE
<b>One Credit Course</b>									
1703CO041	Analog Communication System Design	1	0	0	1	40	60	100	PE
1703CO042	Embedded System Design using MSP430	1	0	0	1	40	60	100	PE
1703CO043	Network Routing	1	0	0	1	40	60	100	PE
1703CO044	Telematics	1	0	0	1	40	60	100	PE

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