

	E.G.S. PILLAY ENGINEERING COLLEGE (An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam - 611 002, Tamilnadu.	
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Board of Studies Meeting

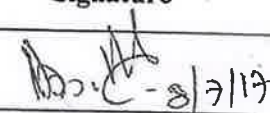
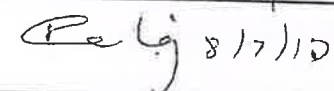
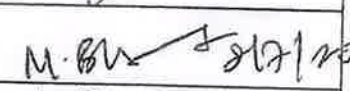
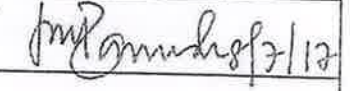
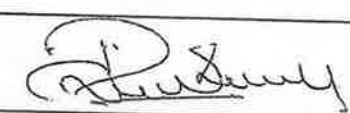
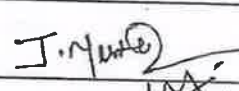
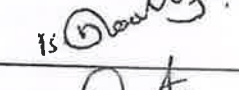
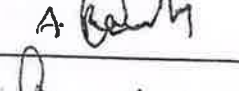

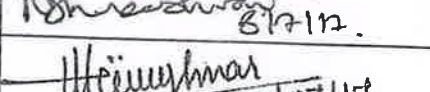
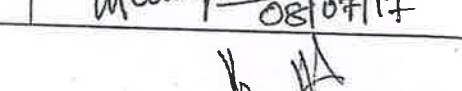
Attendance

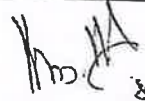
Name of the Department : Electronics and Communication Engineering

Meeting No : 01

Date & Time : 08-07-2017 & 9.30 A.M.

Venue : ECE A/C Seminar Hall

Sl.No.	Name	Category	Signature
1	Dr. S. M. RAMESH	Chairman	 M.S.C - 8/7/17
2	Dr. MALA JOHN	University Nominee	 P. J. 8/7/17
3	Dr. M. BHASKAR	External Expert Members	 M. B. 8/7/17
4	Dr. J. RAMESH		 J. R. 8/7/17
5	Dr. N. B. BALAMURUGAN		AB
6	Mr. V. UDAYASANKAR	Industry / Corporate Sector	
7	Mr. J. MUTHUKUMAR	Alumnus	 J. M.
8	Mr. B. DHAKSHINAMOORTHY		 B. D.
9	Dr. A. RAJARAM	Internal Members	 A. R.
10	Prof. R. LAKSHMIREKHA		 R. L.
11	Prof. RS.KOTEESHWARI		 R. S. K. 8/7/17
12	Prof. M. VIJAYAKUMAR		 M. V. 08/07/17


Chairman - BoS (ECE)

ATTESTED


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

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Electronics and Communication Engineering.
Names of the Programmes	B.E - Electronics and Communication Engineering. M.E - Communication Systems.
Meeting No	01
Date & Time	8.7.2017
Venue	ECE Seminar Hall

The following are the suggestions given by the member of Board of Studies.

- The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E. Electronics and Communication Engineering and M.E. Communication Systems Programmes.
- Language Electives –II can be renamed as English II and Electives can be removed
- Standard Text books can be mentioned separately in the syllabus, Textbooks (UG Course only) and it should cover at least 4 units. Reference books can be given separately
- Mathematics III can be replaced by Partial differential equations and Linear Algebra as transform concepts are covered in Signals and System Course
- Total number of credits for B.E - ECE programme can be fixed (184) as low.


8/7/17
Chairman – BOS (ECE)

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NAGAPATTINAM – 611002



B.E. ELECTRONICS AND COMMUNICATION ENGINEERING
REGULATIONS - 2017
CHOICE BASED CREDIT SYSTEM
CURRICULUM FOR I TO VIII SEMESTERS
Minimum Credits to be Earned :184

B.E. ELECTRONICS AND COMMUNICATION ENGINEERING												
FIRST SEMESTER												
Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ES E	Total		
	English - I			3	0	0	3	40	60	100	HSS	
	Engineering Mathematics-I			2	2	2	4	40	60	100	BS	
	Applied Physics			3	0	2	4	50	50	100	BS	
	Applied Chemistry			3	0	2	4	50	50	100	BS	
	Basics of Electrical and Instrumentation Engineering			3	0	2	4	50	50	100	ES	
	Programming in C			3	0	2	4	50	50	100	ES	
	Engineering Graphics			3	0	2	4	50	50	100	ES	
(Contact Periods: 36)				Total	20	4	12	27	320	380	700	-
SECOND SEMESTER												
Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CI A	ES E	Total		
	English - II			3	0	0	3	40	60	100	HSS	
	Engineering Mathematics II			2	2	2	4	40	60	100	BS	
	Semiconductor Physics and Devices			3	0	0	3	50	50	100	BS	
	Environmental Science			3	0	0	3	50	50	100	HSS	
	Basics of Civil and Mechanical Engineering			4	0	0	4	40	60	100	ES	
	Circuit Theory			5	2	0	4	40	60	100	ES	
	Engineering Practice			5	0	4	2	50	50	100	ES	
(Contact Periods: 32)				Total	18	2	10	23	320	380	700	-

B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

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THIRD SEMESTER

Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ESE	Total		
	Partial Differential Equations and Linear Algebra			3	2	0	4	40	60	100	BS	
	Data Structures and C++			3	0	2	4	50	50	100	ES	
	Network Analysis and Synthesis			3	2	0	4	40	60	100	ES	
	Engineering Electromagnetics			3		0	3	40	60	100	ES	
	Digital Circuits and Systems			3	0	0	3	40	60	100	PC	
	Electronics Circuits			3	0	0	3	40	60	100	PC	
	Digital Electronics Laboratory			0	0	4	2	50	50	100	PC	
	Electronic Circuits Laboratory			0	0	4	2	50	50	100	PC	
	Life Skills: Business English			0	0	2	-	100	-	100	EEC	
(Contact Periods: 38)				Total	18	6	14	25	500	500	1000	-

FOURTH SEMESTER

Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ESE	Total		
	Probability and Random Processes			3	2	0	4	40	60	100	BS	
	Signals and Systems			3	2	0	4	40	60	100	PC	
	Analog integrated circuits			3	0	0	3	40	60	100	PC	
	Microprocessors and Microcontrollers			3	0	0	3	40	60	100	PC	
	Transmission Lines and Waveguides			3	0	0	3	40	60	100	PC	
	Control Systems			3	0	0	3	40	60	100	PC	
	Analog integrated circuits laboratory			0	0	4	2	50	50	100	PC	
	Microprocessors and Microcontrollers Laboratory			0	0	4	2	50	50	100	PC	
	Life Skills: Verbal Ability			0	0	2	-	100	-	100	EEC	
(Contact Periods: 38)				Total	18	8	12	24	490	510	1000	-

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B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

FIFTH SEMESTER

Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ESE	Total		
	Analog Communication			3	0	0	3	40	60	100	PC	
	Antenna and wave propagation			3	0	0	3	40	60	100	PC	
	Digital Signal Processing			3	2	0	4	50	50	100	PC	
	Computer Networks			3	0	0	3	40	60	100	PC	
	Professional Elective - I			3	0	0	3	40	60	100	PE	
	Professional Elective - II			3	0	0	3	40	60	100	PE	
	Digital Signal Processing Laboratory			0	0	4	2	50	50	100	PC	
	Analog communication Laboratory			0	0	4	2	50	50	100	PC	
	Technical seminar			0	0	2	1	100	-	100	EEC	
	Life Skills: Aptitude - I			0	0	2	-	100	-	100	EEC	
(Contact Periods: 34)				Total	18	2	14	24	550	450	1000	-

SIXTH SEMESTER

Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ESE	Total		
	Professional Ethics			3	0	0	3	40	60	100	HSS	
	VLSI Design			3	0	0	3	40	60	100	PC	
	Digital communication			3	0	0	3	40	60	100	PC	
	Wireless Networks and Standards			3	0	0	3	40	60	100	PC	
	Professional Elective - III			3	0	0	3	40	60	100	PE	
	Open Elective - I			3	0	0	3	40	60	100	OE	
	VLSI Design Laboratory			0	0	4	2	50	50	100	PC	
	Communication and Networks Laboratory			0	0	4	2	50	50	100	PC	
	Life Skills: Aptitude - II			0	0	2	-	100	-	100	EEC	
(Contact Periods: 32)				Total	18	0	12	22	540	460	1000	-

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B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

SEVENTH SEMESTER

Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ESE	Total		
	Industrial Economics			3	0	0	3	40	60	100	HSS	
	Optical Communication			3	0	0	3	40	60	100	PC	
	Microwave Electronics			3	0	0	3	40	60	100	PC	
	Wireless Communication			3	0	0	3	50	50	100	PC	
	Professional Elective - IV			3	0	0	3	40	60	100	PE	
	Open Elective - II			3	0	0	3	40	60	100	OE	
	Microwave and Optical Communication Laboratory			0	0	4	2	50	50	100	PC	
	Mini Project - I			0	0	2	1	100	-	100	EEC	
	Life Skills : Competitive Exams			0	0	2	-	100	-	100	EEC	
(Contact Periods: 32)				Total	18	0	8	21	550	450	1000	

EIGHT SEMESTER

Course Code	Course Title	Objectives & Outcomes		L	T	P	C	Maximum Marks			Category	
		PEOs	POs					CIA	ESE	Total		
	Professional Elective - V	-	-	3	0	0	3	40	60	100	PE	
	Professional Elective - VI	-	-	3	0	0	3	40	60	100	PE	
	Professional Elective - VII	-	-	3	0	0	3	40	60	100	PE	
	Project Work	1,2,3	1-12	0	0	18	9	50	50	100	BEC	
(Contact Periods: 27)				Total	9	0	18	18	170	230	400	-

SUMMARY OF CREDIT DISTRIBUTION

S.No	CATEGOR Y	CREDITS PER SEMESTER								TOTAL CREDIT	CREDITS in %
		I	II	III	IV	V	VI	VII	VIII		
1	HSS	3	6	-	-	-	3	3	-	15	6
2	BS	12	7	4	4	-	-	-	-	27	14
3	ES	12	10	11	-	-	-	-	-	33	19
4	PC	-	-	10	20	17	13	11	-	71	40
5	PE	-	-	-	-	6	3	3	9	21	11
6	OE	-	-	-	-	-	3	3	-	06	3
7	EEC	-	-	-	-	1	-	1	9	11	7
	Total	27	23	25	24	24	22	21	18	184	100

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M. R. J. 8/7/17

8/7/17



**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
NAGAPATTINAM
DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING**

ELECTIVES

DISCIPLINE ELECTIVES		L	T	P	C
	NANO ELECTRONICS	3	0	0	3
	ROBOTIC VISION	3	0	0	3
	EMBEDDED PROCESSORS AND NETWORKS	3	0	0	3
	AUTOMOTIVE ELECTRONICS	3	0	0	3
	BIOMEDICAL ENGINEERING	3	0	0	3
	ADVANCED DIGITAL SIGNAL PROCESSING	3	0	0	3
	IMAGE PROCESSING	3	0	0	3
	PATTERN RECOGNITION AND MACHINE LEARNING	3	0	0	3
	ADVANCED WIRELESS MOBILE COMMUNICATIONS	3	0	0	3
	WIRELESS AD-HOC AND SENSOR NETWORKS	3	0	0	3
	MOBILE COMPUTING	3	0	0	3
	GRID COMPUTING	3	0	0	3
	NETWORK SECURITY	3	0	0	3
	SATELLITE COMMUNICATION	3	0	0	3
	RF SYSTEM DESIGN	3	0	0	3
	RF MEMS	3	0	0	3
	BIO MEMS	3	0	0	3
	RADAR AND NAVIGATION AIDS	3	0	0	3
	MEASUREMENT AND INSTRUMENTATION	3	0	0	3
	SYSTEM-ON CHIP DESIGN	3	0	0	3
	NETWORK ON CHIP DESIGN	3	0	0	3
	SPEECH PROCESSING	3	0	0	3
	PYTHON PROGRAMMING AND .NET	3	0	0	3
	MICROWAVE INTEGRATED CIRCUITS	3	0	0	3
	LOW POWER VLSI DESIGN	3	0	0	3
	ANALOG VLSI	3	0	0	3
	FOUNDATION SKILLS IN INTEGRATED PRODUCT DEVELOPMENT	3	0	0	3
	CLOUD COMPUTING	3	0	0	3
	INTERNET OF THINGS (IoT)	3	0	0	3
	VIRTUAL INSTRUMENTATION	3	0	0	3
	EMBEDDED SYSTEM DESIGN	3	0	0	3
	SOFT COMPUTING	3	0	0	3
	BIG DATA ANALYTICS	3	0	0	3
	OPERATING SYSTEMS	3	0	0	3
	REAL TIME OPERATING SYSTEMS	3	0	0	3

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M.E. Communication Systems (Full Time)
Regulation 2017 (R2017)

Minimum Credits to be Earned :76

First Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Applied Engineering Mathematics	3	2	0	4
2.		Advanced Digital Signal Processing	3	2	0	4
3.		High Speed Communication Networks	3	0	0	3
4.		Advanced Digital Communication	3	0	0	3
5.		Wireless Communication Engineering	3	0	0	3
6.		Elective -I	3	0	0	3
7.		Signals Processing and Communication Laboratory	0	0	4	2
8.		Wireless Communication Networks Lab	0	0	4	2
9.		Business English-I	1	0	2	2
Total			19	4	10	26
Total Contact Hours/Week			33			

Second Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		FPGA Based Communication System Design	3	0	0	3
2.		Microwave Integrated Circuits	3	0	0	3
3.		Optical Switching and Networking	3	0	0	3
4.		Information Theory and Coding	3	0	0	3
5.		Elective – II	3	0	0	3
6.		Elective – III	3	0	0	3
7.		RF System Design Laboratory	0	0	4	2
8.		Technical Seminar	0	0	2	1
9.		Business English-II	1	0	2	2
Total			19	0	8	23
Total Contact Hours/Week			27			

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Third Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Elective IV	3	0	0	3
2.		Elective V	3	0	0	3
3.		Elective VI	3	0	0	3
4.		Project Work Phase -I	0	0	12	6
Total			9	0	12	15
Total Contact Hours/Week			21			

Fourth Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Project Work Phase -II	0	0	24	12
Total			0	0	24	12
Total Contact Hours/Week			12			

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List of Electives:

S.No	Course Code	Course Title	T	T	P	C
1.		Advanced Digital Image processing	3	0	0	3
2.		Cognitive Radio	3	0	0	3
3.		Multimedia Communication	3	0	0	3
4.		Wireless Sensor Networks	3	0	0	3
5.		Communication Protocol engineering	3	0	0	3
6.		High speed Switching Architecture	3	0	0	3
7.		Radar and Navigational Aids	3	0	0	3
8.		RF MEMS	3	0	0	3
9.		Advanced Wireless Networks	3	0	0	3
10.		Satellite Communication	3	0	0	3
11.		Network Routing Algorithms	3	0	0	3
12.		Advanced Wireless Communication Engineering	3	0	0	3
13.		Data Converters	3	0	0	3
14.		Electromagnetic Interference and Compatibility in System Design	3	0	0	3
15.		Evolutionary Computing	3	0	0	3
16.		Microwave Remote Sensing	3	0	0	3
17.		Database Management System	3	0	0	3
18.		Speech and Audio Signal Processing	3	0	0	3
19.		RF System Design for Wireless Communication	3	0	0	3
20.		Mobile Adhoc Networks	3	0	0	3
21.		Advanced Fiber Optic Technologies	3	0	0	3
22.		Communication Network Security	3	0	0	3
23.		Telecommunication System Modeling and Simulation	3	0	0	3
24.		Advanced Microwave Communication	3	0	0	3
25.		Space Time Communication	3	0	0	3
26.		Advanced Display System	3	0	0	3
27.		Software Defined Radio	3	0	0	3
28.		Machine Learning Algorithms	3	0	0	3
29.		Analog VLSI System Design	3	0	0	3

One Credit Courses

1. Analog Communication System Design
2. Embedded System Design using MSP430

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07/11/17

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08/11/17

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M.E. Communication Systems (Part time)
Regulation 2017 (R2017)

Minimum Credits to be Earned :76

First Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Advanced Engineering Mathematics	3	2	0	4
2.		Advanced Digital Signal Processing	3	2	0	4
3.		Advanced Digital Communication	3	0	0	3
4.		Signals Processing and Communication Laboratory	0	0	4	2
5.		Business English-I	1	0	2	2
Total			10	4	6	15
Total Contact Hours/Week			20			

Second Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		FPGA Based Communication System	3	0	0	3
2.		Microwave Integrated Circuits	3	0	0	3
3.		Optical Switching and Networking	3	0	0	3
4.		RF System Design Lab	0	0	4	2
5.		Business English-II	1	0	2	2
Total			10	0	6	13
Total Contact Hours/Week			16			

Third Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		High Speed Communication Networks	3	0	0	3
2.		Wireless Communication Engineering	3	0	0	3
3.		Elective -I	3	0	0	3
4.		Wireless Communication Networks Lab	0	0	4	2
Total			9	0	4	11
Total Contact Hours/Week			13			

ATTESTED

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M. A. J
 8/12/17

J. S. S. S. S.
 8/12/17

C. J. S. S. S.
 8/12/17

Fourth Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Information Theory and Coding	3	0	0	3
2.		Elective - II	3	0	0	3
3.		Elective - III	3	0	0	3
8.		Technical Seminar	0	0	2	1
Total			9	0	2	10
Total Contact Hours/Week			11			

Fifth Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Elective IV	3	0	0	3
2.		Elective V	3	0	0	3
3.		Elective VI	3	0	0	3
4.		Project Work Phase -I	0	0	12	6
Total			9	0	12	15
Total Contact Hours/Week			21			

Sixth Semester

Sl.No	Course Code	Course Title	L	T	P	C
1.		Project Work Phase -II	0	0	24	12
Total			0	0	24	12
Total Contact Hours/Week			24			

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K. ... am (Dt) Tamil Nadu.

*M.S.K
8/1/17*

*M-S-K
8/1/17*

8/1/17

List of Electives:

S.No	Course Code	Course Title	T	T	P	C
1.		Advanced Digital Image processing	3	0	0	3
2.		Cognitive Radio	3	0	0	3
3.		Multimedia Communication	3	0	0	3
4.		Wireless Sensor Networks	3	0	0	3
5.		Communication Protocol engineering	3	0	0	3
6.		High speed Switching Architecture	3	0	0	3
7.		Radar and Navigational Aids	3	0	0	3
8.		RF MEMS	3	0	0	3
9.		Advanced Wireless Networks	3	0	0	3
10.		Satellite Communication	3	0	0	3
11.		Network Routing Algorithms	3	0	0	3
12.		Advanced Wireless Communication Engineering	3	0	0	3
13.		Data Converters	3	0	0	3
14.		Electromagnetic Interference and Compatibility in System Design	3	0	0	3
15.		Evolutionary Computing	3	0	0	3
16.		Microwave Remote Sensing	3	0	0	3
17.		Database Management System	3	0	0	3
18.		Speech and Audio Signal Processing	3	0	0	3
19.		RF System Design for Wireless Communication	3	0	0	3
20.		Mobile Adhoc Networks	3	0	0	3
21.		Advanced Fiber Optic Technologies	3	0	0	3
22.		Communication Network Security	3	0	0	3
23.		Telecommunication System Modeling and Simulation	3	0	0	3
24.		Advanced Microwave Communication	3	0	0	3
25.		Space Time Communication	3	0	0	3
26.		Advanced Display System	3	0	0	3
27.		Software Defined Radio	3	0	0	3
28.		Machine Learning Algorithms	3	0	0	3
29.		Analog VLSI System Design	3	0	0	3

One Credit Courses

1. Analog Communication System Design
2. Embedded System Design using MSP430

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8/7/17

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8/7/17

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M.Phil
8/7/17

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8/7/17

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering M.E. Communication System
Meeting No.	01
Date & Time	08.07.2017 & 10.00 A.M.
Venue	ECE A/C Seminar Hall

1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS briefed the members about the Agenda.

- To finalize the curriculum and syllabi of first and second semester B.E Electronics and Communication Engineering Programmes and 1st to 4th Semesters M.E. Communication Systems Programmes.
- To finalize the curriculum of 3rd – 8th Semester B.E Electronics and Communication Engineering.
- To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
- Any other matters.

4. The following are the suggestions given by the member of Board of Studies.

- The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E Electronics and Communication Engineering and M.E Communication Systems Programmes.
- The Board of Studies members have gone through the curriculum of 3rd - 8th Semester of B.E Electronics and Communication Engineering and 3rd & 4th Semesters of M.E Communication system Programmes.
- Total number of credits for BE Electronics and Communication Engineering programme should be with in 184 and total number of credits for M.E Communication Systems programme should be with in 76.

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3. RF lab is renamed as RF system design laboratory.
4. Communicative English-II is renamed as Business English-II

3rd Sem:

1. Various new Electives were included based on new technologies.

4th Sem:

1. Project work

Question Paper Patterns

UG Programme.

Part A – 10 x 1 = 10 Marks

Part B – 10 x 2 = 20 Marks

Part C – 5 x 14 = 70 Marks (Either or)

Total = 100 Marks, Duration = 3 Hours

Evaluation Methods

Theory

Continuous Assessment = 40%

Semester Examinations = 60%

Practical

Continuous Assessment = 50%

Semester Examinations = 50%

5.

The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E Electronics and Communication Engineering and M.E Communication Systems Programmes to the Academic Council for approval.
- It is resolved to recommend the curriculum of 3rd – 8th Semester B.E Electronics and Communication Engineering and 3rd and 4th semester M.E Communication system Programmes to the academic Council for approval.
- It is resolved to recommend the question paper pattern UG/PG Programmes and evaluation methodology for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 8.7.2017

Place: Nagapattinam


8/7/17
Chairman – BoS (ECE)

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Minutes of Board of Studies(BoS) Meeting

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering M.E. Communication System
Meeting No.	01
Date & Time	08.07.2017 & 10.00 A.M.
Venue	ECE A/C Seminar Hall

- Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
- Chairman / BoS introduced the members.
- Chairman / BoS briefed the members about the Agenda.

- To finalize the curriculum and syllabi of first and second semester B.E ECE Programmes and 1st to 4th Semesters M.E. Communication system Programmes.
- To finalize the curriculum of 3rd – 8th Semester B.E ECE.
- To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
- Any other matters.

- The following are the suggestions given by the member of Board of Studies.

U.G Curriculum for B.E & M.E has been reviewed and modified suitably. The necessary changes have been incorporated (enclosed).

Chairman (BoS)
08/7/17

University Nominating
Chairman
08/7/17

Subject Expert

Subject Expert
08/7/17

Industry Expert

Alumni

Senior Faculty

Senior Faculty
08/7/17

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Senior Faculty
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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering M.E. Communication Systems
Meeting No.	01
Date & Time	08.07.2017 & 10.00 A.M.
Venue	ECE A/C Seminar Hall

1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS briefed the members about the Agenda.

- To finalize the curriculum and syllabi of first and second semester B.E Electronics and Communication Engineering Programmes and 1st to 4th Semesters M.E. Communication Systems Programmes.
- To finalize the curriculum of 3rd – 8th Semester B.E Electronics and Communication Engineering.
- To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies.
- Any other matters.

4. The following are the suggestions given by the member of Board of Studies.

- The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E Electronics and Communication Engineering and M.E Communication Systems Programmes.
- The Board of Studies members have gone through the curriculum of 3rd to 8th Semesters of B.E. Electronics and Communication Engineering and 1st to 4th Semesters of M.E. Communication System Programmes.
- Total number of credits for B.E. Electronics and Communication Engineering programme should be with in 190 and total number of credits for M.E. Communication Systems programme should be with in 74.

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Minutes of Board of Studies (BoS) Meeting

UG- B.E Electronics and Communication Engineering

1st Sem:

1. Language Elective- I should be changed as English-I
2. Differential Calculus is renamed as Engineering Mathematics-I
3. Basic of Electrical and Electronics engineering should be renamed as Basic of Electrical and Instrumentation. The Unit consists of

- 1) AC Machines
- 2) Transformers
- 3) DC Machines
- 4) Sensing Techniques
- 5) Basic Instrumentation Concepts

2nd Sem:

1. Language Elective –II is renamed as English-II
2. Solid State physics subject is renamed as semiconductor Physics and Devices.
3. Basic Civil and Mechanical Engineering is renamed as Basic of Civil and Mechanical Engineering.
4. In semiconductor devices syllabus, one unit must consist fabrication of semiconductor devices. The text book should follow “Milman Halkias”.
5. Cloud Computing and Python Program & Dot Net can be considered as open elective as one credit course.
6. Otherwise online courses may be suggested with certification for 4 weeks to 8 weeks.
 - This can be helpful for placement and mapping.
 - Select Courses and foundation program according to the department.
7. Add Text book to all the subjects. It must cover 4 units and it is to the level of prentice hall of India.

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8. In addition to the Text book, the provision of NPTEL link, tutorial link and open course of NPTEL details also included.

9. The content of English I & English II also include conversation and communicative level.

10. As per the AICTE norms, total credit is 176 as minimum. We can also adopt the same thing.

11. While framing of Syllabus, keeping in mind of syllabus level as topper, middle level and slow level. In future may provide choice of selecting different electives for toppers.

3rd Sem:

1. Transforms & partial differential equation is renamed as partial differential equation & Linear Algebra.

2. Data Structures using C++ is renamed as Data structures and C++.

3. Analog integrated Circuits subject is removed and electronic circuits are added.

4. Electronic Circuits 5th unit has contain semiconductor devices such as Thyristers, Triac, Diac, SCR and Opto couplers.

5. Digital Electronics Lab and Electronic Circuits Lab incorporated.

6. Technical Seminar- I is moved to V semester.

4th Sem:

1. Linear algebra and Numerical methods subject is replaced by Probability & random Process.

2. Numerical methods content may be included in Engineering mathematics-I & Engineering mathematics-II.

3. Remove Technical seminar –II from this semester.

4. Analog communication subject is moved to Vth semester.

5. Microcontroller and interfacing subject is removed and Microprocessor and Microcontroller is added.

6. Analog Integrated Circuits theory and lab is included in this semester.

5th Sem:

1. Digital Communication techniques is moved to VI semester and analog communication is added.

2. Principles of Digital signal processing is renamed as Digital Signal Processing.

3. Computer Network lab is removed and analog communication lab is added.

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4. Mini Project –I is removed and technical seminar is added.

6th Sem:

1. Fibre optic communication is moved to 7th semester.
2. Digital Communication subject is added.
3. RF and Microwave Engineering is removed and Wireless Networks and Standards is added.
4. Engineering Proficiency Program may be considered as company courses or it may be merged with main courses. It may be Extra credit course and helpful for placement.
5. Students third review of the projects may be evaluated by industry experts.

7th Sem:

1. Engineering Economics is renamed as Industrial Economics.
2. Digital Image Processing and Embedded systems is moved to elective list.
3. Microwave Electronics and Wireless communication subjects are added in this semester.
4. Optical Communication Lab is renamed as Microwave and Optical Lab.
5. Mini Project –I is added.

8th Sem:

1. Various electives papers were added in the elective list like Foundation Skills in integrated Product development, Cloud computing, virtual instrumentation etc.,

PG - M.E Communication Systems

1st Sem:

1. Mathematics for communication engineers is renamed as Advanced Engineering Mathematics.
2. Statistical Signal Processing is renamed as Advanced Signal Processing.
3. Advanced Radiation System is removed and High Speed Communication Networks included.
4. Advanced Modulation and Coding technique is renamed as Advanced Digital Communication.
5. Communicative English –I is renamed as Business English-I.

2nd Sem:

1. Research methodology subject is removed and FPGA based communication system design is included.
2. Advanced Wireless networks is replaced by Information theory and Coding.

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3. RF lab is renamed as RF system design laboratory.
4. Communicative English-II is renamed as Business English-II

3rd Sem:

1. Various new Electives were included based on new technologies.

4th Sem:

1. Project work

Question Paper Patterns

UG Programme.

Part A – 10 x 1 = 10 Marks

Part B – 10 x 2 = 20 Marks

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Total = 100 Marks, Duration = 3 Hours

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Theory

Continuous Assessment = 40%

Semester Examinations = 60%

Practical

Continuous Assessment = 50%

Semester Examinations = 50%

5.

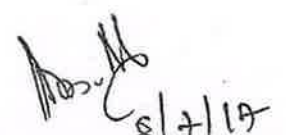
The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E Electronics and Communication Engineering and M.E Communication Systems Programmes to the Academic Council for approval.
- It is resolved to recommend the curriculum of 3rd – 8th Semester B.E Electronics and Communication Engineering and 3rd and 4th semester M.E Communication system Programmes to the academic Council for approval.
- It is resolved to recommend the question paper pattern UG/PG Programmes and evaluation methodology for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date : 8-7-2017

Place : Nagapattinam


8/7/17
Chairman - BoS (ECE)

CHAIRMAN
Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

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Department of Electronics and Communication Engineering

Action Taken for BOS Meeting Minutes held on 08.07.2017

The Following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E. Electronics and Communication Engineering and M.E. Communication Systems Programmes the syllabus was approved as presented.
- It is resolved to recommend the curriculum of 3rd – 8th Semester B.E. Electronics and Communication Engineering and 3rd&4thSemesters M.E. Communication Systems Programmes was approved as presented.
- It is resolved to recommend the question paper pattern UG/PG Programmes and evaluation methodology was approved as presented.

List of syllabus revised Courses from Anna University R2013

Course Code	Course Name	Change Details	Revised
B.E. Electronics and Communication Engineering			
1701EN101	Technical English	Syllabus Revision	2 Module and some content changed
1701MA101	Engineering Mathematics – I	Syllabus Revision	2 Module and some content changed
1701GEX02	Engineering Graphics	Syllabus Revision	1 Module changed
1701HS151	Physics and Chemistry Laboratory – I	Syllabus Revision	Some content Changed
1701MA201	Engineering Mathematics – II	Syllabus Revision	2 Module and some content changed
1701EC201	Circuit Theory	Syllabus Revision	1 Module changed
M.E. Communication Systems			
1701CO101	Applied Engineering Mathematics	Syllabus Revision	2 Module and some content changed

List of New Courses Introduced

Course Code	Course Name	Change Details
B.E. Electronics and Communication Engineering		
1701PH101	Applied Physics for Engineers	New Course
1701CH104	Applied Chemistry	New Course
1701GE101	Basic Electrical and Instrumentation Engineering	New Course
1701GEX03	Programming in C	New Course
1701GEX51	Programming in C Laboratory	New Course
1701LE201	Communicative English	New Course
1701PH202	Semiconductor Physics and Devices	New Course
1701CH201	Environmental Studies	New Course
1701GE201	Basic Civil and Mechanical Engineering	New Course
1701GEX53	Workshop Practice	New Course
1701HS251	Physics and Chemistry Laboratory – II	New Course
1701GEX52	Communication Skills Laboratory	New Course

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BOS Chairman - ECE

Course Code	Course Name	Change Details
M.E. Communication Systems		
1701CO101	Applied Engineering Mathematics	New Course
1702CO102	Advanced Digital Signal Processing	New Course
1702CO103	High Speed Communication Networks	New Course
1702CO104	Advanced Digital Communication	New Course
1702CO105	Wireless Communication Engineering	New Course
1703CO001	Advanced Digital Image processing (Elective – I)	New Course
1704CO106	Signals Processing and Communication Laboratory	New Course
1704CO107	Wireless Communication Networks Lab	New Course
1704CO108	Communication Skills Laboratory-I	New Course
1702CO201	FPGA Based Communication System Design	New Course
1702CO202	Microwave Integrated Circuits	New Course
1702CO203	Optical Switching and Networking	New Course
1702CO204	Information Theory and Coding	New Course
1703CO009	Network Routing Algorithms (Elective – II)	New Course

List of CBCS/Electives for / offered by B.E. – Electronics and Communication Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
PROFESSIONAL ELECTIVES – I										
1703EC001	Nano Electronics	3	0	0	3	40	60	100	PE	
1703EC002	Automotive Electronics	3	0	0	3	40	60	100	PE	
1703EC003	Micro Electronics	3	0	0	3	40	60	100	PE	
1703EC004	Biomedical Engineering	3	0	0	3	40	60	100	PE	
1703EC005	Robotic Vision	3	0	0	3	40	60	100	PE	
PROFESSIONAL ELECTIVES – II										
1703EC006	Computer Architecture and Organization	3	0	0	3	40	60	100	PE	
1703EC007	Advanced Microcontrollers	3	0	0	3	40	60	100	PE	
1703EC008	Measurement and Instrumentation	3	0	0	3	40	60	100	PE	
1703EC009	Virtual Instrumentation	3	0	0	3	40	60	100	PE	
1703EC010	Operating Systems	3	0	0	3	40	60	100	PE	
PROFESSIONAL ELECTIVES – III (OPEN ELECTIVES)										
1703EC011	Information Theory and Coding	3	0	0	3	40	60	100	PE	
1703EC012	Digital Control Engineering	3	0	0	3	40	60	100	PE	
1703EC013	Network Security	3	0	0	3	40	60	100	PE	
1703EC014	Internet of Things	3	0	0	3	40	60	100	PE	
1703EC015	Soft Computing	3	0	0	3	40	60	100	PE	
PROFESSIONAL ELECTIVES – IV										
1703EC016	Cloud Computing	3	0	0	3	40	60	100	OE	
1703EC017	Real Time Operating Systems	3	0	0	3	40	60	100	OE	
1703EC018	Big Data Analytics	3	0	0	3	40	60	100	OE	
1703EC019	Introduction to Web Technology	3	0	0	3	40	60	100	OE	
1703EC020	Grid Computing	3	0	0	3	40	60	100	OE	
PROFESSIONAL ELECTIVES – V (OPEN ELECTIVES)										
1703MG001	Principles of Management	3	0	0	3	40	60	100	OE	
1703MG002	Disaster Management	3	0	0	3	40	60	100	OE	
1703MG005	Total Quality Management	3	0	0	3	40	60	100	OE	
1703MG006	Industrial Economics	3	0	0	3	40	60	100	OE	
1703MG007	Foundation Skills in Integrated Product Development	3	0	0	3	40	60	100	OE	

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Nagapattinam (Dt) Tamil Nadu


BOS Chairman - ECE

B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
Regulations 2017 Approved in I Board of Studies Meeting held on 08-07-2017

Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
Professional Electives										
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	
Open Electives										
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	
Self-Study Electives										
1703CO037	Neural Computing	3	0	0	3	40	60	100	PE	
1703CO038	Biometrics for Network Security	3	0	0	3	40	60	100	PE	
1703CO039	Medical Image Processing	3	0	0	3	40	60	100	PE	
1703CO040	Robotics and Automation	3	0	0	3	40	60	100	PE	
One Credit Course										
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	

ATTESTED


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Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu



HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg.
E.G.S Pillay Engineering College,
Nagapattinam - 611 002.

B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
Regulations 2017 Approved in I Board of Studies Meeting held on 08-07-2017

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
PROFESSIONAL ELECTIVES – VI									
1703EC021	Advanced Digital Signal Processing	3	0	0	3	40	60	100	PE
1703EC022	Embedded System	3	0	2	4	40	60	100	PE
1703EC023	Pattern Recognition and Machine Learning	3	0	0	3	40	60	100	PE
1703EC024	Speech Processing	3	0	0	3	40	60	100	PE
1703EC025	VLSI Signal Processing	3	0	0	3	40	60	100	PE
1703EC026	RF System Design	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – VII									
1703EC027	Multimedia Communication	3	0	0	3	40	60	100	PE
1703EC028	Wireless Sensor Networks	3	0	0	3	40	60	100	PE
1703EC029	Radar and Navigation Aids	3	0	0	3	40	60	100	PE
1703EC030	Microwave Integrated Circuits	3	0	0	3	40	60	100	PE
1703EC031	Satellite Communication	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – VIII									
1703EC032	System-on Chip Design	3	0	0	3	40	60	100	PE
1703EC033	Network on Chip Design	3	0	0	3	40	60	100	PE
1703EC034	Low Power VLSI Design	3	0	0	3	40	60	100	PE
1703EC035	Analog IC Design	3	0	0	3	40	60	100	PE
1703EC036	Mixed Signal CMOS Design	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – IX									
1703EC037	Electromagnetic Interference and Compatibility	3	0	0	3	40	60	100	PE
1703EC038	Digital System Design and Testing	3	0	0	3	40	60	100	PE
1703EC039	Optical Networks	3	0	0	3	40	60	100	PE
1703EC040	RF MEMS	3	0	0	3	40	60	100	PE
1703EC041	Digital Switching and Transmission	3	0	0	3	40	60	100	PE
1703EC042	ARM Processors	3	0	0	3	40	60	100	PE
1703EC043	Mobile Computing	3	0	0	3	40	60	100	PE
ONE CREDIT COURSES									
1704EC044	Programmable Logic Controllers (PLC) Programming	1	0	0	1	40	60	100	EEC
1704EC045	Advanced Verification Methodologies	1	0	0	1	40	60	100	EEC
1704EC046	Introduction to HDL	1	0	0	1	40	60	100	EEC
1704EC047	Embedded Systems Design Using MSP430	1	0	0	1	40	60	100	EEC
1704EC048	Arduino Microcontroller	1	0	0	1	40	60	100	EEC
1704EC049	Software defined radio	1	0	0	1	40	60	100	EEC
1704EC050	Applications of Neural Network and Fuzzy Logic	1	0	0	1	40	60	100	EEC
1704EC051	Real Time Data Acquisition And Signal Processing Using Labview	1	0	0	1	40	60	100	EEC
1704EC052	Python Programming	1	0	0	1	40	60	100	EEC
1704EC053	Microwave/RF circuit design Including 3D EM Modeling	1	0	0	1	40	60	100	EEC

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

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Professional Electives									
1703CO001	Advanced Digital Image processing	3	0	0	3	40	60	100	PE
1703CO002	Cognitive Radio	3	0	0	3	40	60	100	PE

ATTESTED


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BOS Chairman - ECE



E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.

Department of Electronics and Communication Engineering

Minutes of Board of Studies (BoS) Meeting

UG-B.E Electronics and Communication Engineering

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering
Meeting No.	02
Date & Time	21.04.2018 & 10.00 A.M.
Venue	ECE - SJB 115

1. Chairman / BoS welcomed all members for the 2nd meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS review the contents of 1st BOS meeting
4. Chairman / BoS briefed the members about the Agenda.
 - To finalize the curriculum and syllabi of 3rd – 8th Semester B.E ECE.
 - Any other matters.
5. The following are the suggestions given by the members of Board of Studies in curriculum.
 - Elective IX is changed as open elective .
 - Open elective is changed to elective IX.
 - Elective X is introduced instead of embedded systems.
 - Self-study elective is named as elective X.

3rd Sem:

1. In engineering mathematics-III, 2 units must consist of linear algebra and 3 units must consist of partial differential equations, unit 2 and 4 is removed from engineering mathematics-III.
2. Syllabus to be updated in Data Structures and C++ and latest content to be included.
3. In network analysis and synthesis, 3 units must consist of Analysis part and 2 units must consist of Synthesis part and unit five to be removed, add text book to Network analysis and synthesis.
4. In digital circuits and system, number systems must to be added in 1st unit as 1st topic, introduction about Verilog to be included in 5th unit and modify the syllabus, memory can be reduced in 5th unit and it is moved to VLSI or microcontroller, Design of Verilog program is moved to 5th unit, 5th unit title is renamed as Programmable Logic Devices and HDL programming and text book to be added for Verilog programming.
5. In Electronics Circuits, Text book 5 and 6 replaced as 1 and 2.
6. In Digital Electronics lab, subdivisions and IC number to be removed.
7. Remove references for Laboratory courses, utilize the theory references for laboratory also and make uniform number of experiments for all laboratory courses as 12.
8. In Electronics Circuits lab, Frequency Response of CE/CB/CS amplifier is renamed as design and analysis of CE and CB amplifier.

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21/4/18

(Dr. J. Ramesh)

(1)

Sem 4:

1. Syllabus to be updated for Probability and Random Process.
2. In Signals and Systems, unit 3 must start with impulse response – Convolution Integral - Analysis and characterization of LTI system using Fourier and Laplace transform, in unit 5, Analysis and characterization of DT system using Z transform is changed to Analysis and characterization of DT system using DTFT and Z transform, references will be unique for all subjects and remove the program concepts in all units.
3. In Analog Integrated Circuits, remove the word tuned amplifier in unit 5 title; Text book to be added, unit 1 must consist of basic Op-Amp characteristics, unit 2 must consist of applications of Op-Amp, unit 3 must consist of Op-Amp based feedback amplifiers and oscillators, unit 4 consist of multivibrator, ADC and DAC, unit 5 consist of application IC's like 555 voltage regulator, switched capacitor, frequency to voltage converter, voltage frequency converter, isolation amplifier, audio and video power amplifier, VCO and PLL.
4. In Microprocessor and Microcontroller, unit 5 title is renamed as Architecture of Advanced Processors.
5. In Transmission Lines and Waveguides, unit 2 title is renamed as Impedance matching in Transmission Lines, text book to be added.
6. In Control Systems Engineering, controllers like PI, PID to be replaced in unit 5 and text book to be added.
7. In Analog Integrated Circuits Laboratory, maximum experiments can be 12 and 2 or 3 Simulation experiments is enough.
8. In Microprocessor and Microcontroller laboratory, 8085 consist of basic arithmetic and logic operations, sorting and searching and floating point, 8051 consist of basic arithmetic and logic operations and 5 interfacing experiments.

~~Computer Architecture will be included as compulsory subject in semester V~~

Sem 5:

1. In Analog Communication, at the end of the unit 1, superhetrodyne receiver must be added, receiver parameter such as sensitivity, fidelity must be added in unit 2, unit 3 title is changed to Random process [random variables, random process, auto correlation process, power spectral density, stationary process, Wiener-Khinchin theorem, transmission of random process through LTI system, WSS ergodic process, Gaussians] and in unit 4 title is changed to Noise in Communication system [Noise calculation, noise figure, noise temperature, noise equivalent bandwidth, narrowband noise, noise in AM receiver, noise in DSBSC receiver, Noise in SSB receiver, Noise in FM receiver, capture and threshold effect, pre-emphasis and de-emphasis in FM system, Comparison of noise performance of AM and FM systems. In unit 5, PAM, PWM, PPM, Time Division Multiplexing, PFM are to be added. Reference books are replaced by Proakis, Simon Haykin, Digital and Data communication by Jack Quinn.
2. In Digital Signal Processing, unit 1 and unit 5 are swapped and rearrange the unit numbers, reference book 4 need to be changed to reference book 3.
3. In Analog Communication lab, experiment number 1 is changed as generation and demodulation of AM, experiment number 2 is changed as generation and demodulation of FM. Remove experiments number 3 and 4. Experiment number 3 must be FM demodulation using PLL. Experiment number 4 must be study of kit based PAM, PWM. PDM. Experiment number 5 is to be study of FDM and TDM. Experiment number 6 is to be Mat lab/Scilab/Equivalent simulation [Experiment number 6 AM, Experiment number 7 FM, Experiment number 8 super heterodyne, Experiment number 9 is performance analysis of noise in communication system, Experiment number 10 is noise removal(Suppression of interference)
4. In Digital Signal Processing Laboratory, first 7 experiments must be in simulation; next 4 experiments must be in processor. Instead of study experiment, filter implementation using DSPs must be included. Experiment number 9 is generation of waveform using DSPs. Experiment

Raj 21/4/18

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- number 6 should be removed. In experiment number 11, change 5x to 54. Processor name should not be mentioned. In additional experiment, don't mention Texas.
5. In Robotic vision, in unit 1 introduction, 2D image transform, image filtering must be included. Unit 2 and unit 3 must be combined as unit 2. Unit 3 is image recognition [feature extraction, transform based, sift, image classification, Bayes classification, SVM, deep learning etc. must be included. Unit 4 title is Video Analytics [Video surveillance, four ground extraction, pedestrian deduction, video analytics for navigation, abandoned objects deduction etc. Unit 5 should be related to machine learning. Image processing by Gonzalez, Machine learning by Bishop and pattern recognition by Dudo and Hart must be added as reference books.
 6. Computer organization and architecture is renamed as Computer Architecture and Organization. Memory related content removed from digital circuits may be brought here in unit 3. Reference book Morris mono should be included.
 7. In measurement and Instrumentation, latest book must be added and check the edition. Refer Shahane as a text book.
 8. In Virtual instrumentation, in unit 5, description should be added and tools set to be elaborated.

Sem 6:

1. In VLSI Design, unit 1 must be removed, instead of that CMOS digital circuits, CMOS invertors, etc. should be included in unit 1.
2. In Digital Communication, unit 1 syllabus should be replaced by university department communication theory 1st unit. Syllabus for unit 2 to unit 5 should be replaced by university department Digital Communication and Techniques. Reference books are also taken from university department.
3. In wireless network and standards, take Schiller and Garg as a text book. It should be removed from further reading.
4. In VLSI Design laboratory, number of experiment should be reduced to 10. Experiment numbers 1, 2 and 3 are combined and consider together as experiment number 1. Similarly Experiment numbers 5, 6 and 7 are combined and consider together as experiment number 3.
5. Information Theory is changed as Information Theory and Coding and follow the University department syllabus.
6. Neural Networks should be removed and move Soft Computing from elective IV (Open Elective) to elective III.

Sem 7:

1. Microwave Electronics is renamed as Microwave Engineering.
2. In wireless communication, unit 4 title is renamed as modulation schemes and spread spectrum. Unit 5 title is renamed as diversities techniques. Few contents from unit 4 is moved to unit 5. Reference book to be added in order.
3. Embedded system is combined with embedded lab. Unit 5 title is renamed as Embedded controller.
4. Embedded System laboratory is to be removed.
5. Pattern recognition, Speech processing, VLSI signal processing, RF system design, Multimedia Communication and Cloud Computing syllabus are to re-written.
6. Remove Advanced Wireless Communication from elective VII.
7. Remove Wireless Ad-Hoc and Sensor Network from elective VII and Ad-Hoc wireless Network or Wireless Sensor Network may be included.

Elective courses:

1. CMOS VLSI design is elective IX to be titled as Digital System Design and Testing. Contents of earlier VLSI design (Core) to be used in Digital System Design and Testing.
2. In RF MEMS, unit 1 is renamed as Introduction, remove & symbol from unit 4.
3. In Digital Switching System is retitled as Digital Switching and Transmission.
4. In ARM Processor, unit 3 may be compressed.
5. In Mobile Computing, reference 2 should be moved to reference 1.

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[Signature] 21/04/18
(Dr. J. Ramesh)

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6. Mixed Signal IC Design is renamed as Mixed Signal CMOS Design and reference book to be added.
7. In Radar and Navigation Aids unit 5 title should be changed.
8. In Satellite communication reference book to be added.
9. In system on chip syllabus to be rewritten
10. In low power VLSI syllabus to be based on book Gary Yeap
11. In Analog IC design syllabus to be fully changed based university departments.
12. Remove System design with FPGA
13. Remove cryptography from self-study
14. Remove introduction to Embedded controller from self-study elective
15. In ASIC design remove the unit 4 content and add timing and power consumption issues.
16. Broad band mobile cellular communication has to be renamed as Broadband communication network.
17. In VLSI for Wireless communication reference need to be changed.
18. New one credit course(Embedded system design using MSP430, Software Defined Radio, Application of ANN and Fuzzy logic, Real data acquisition and signal processing using LABVIEW, Internet of Things, Microwave/RF circuit design including 3D EM modeling) replaced instead of Back end design of digital circuits, Android application development, 3D animations AC/DC drives, Raspberry PI
19. In 1 credit paper instead of ANN neural networks and fuzzy logic to be included.
20. Remove SDR from title Software defined Radio
21. Remove IOT from 1 credit course. Instead of that add Python Programming

Raj 21/4/18

J. Ramesh 21/04/18
(Dr. J. Ramesh)

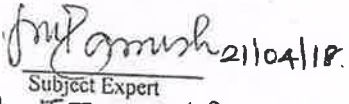
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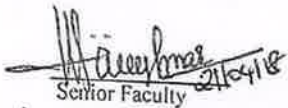
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Chairman (BoS)

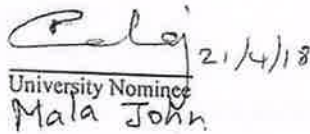
RS Koteswari


Subject Expert

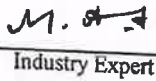
(Dr. J. Ramesh)

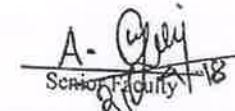

Senior Faculty

(M. VIJAYARAJ)


University Nominee

Mala John


Industry Expert


Senior Faculty

(Dr. A. SUNDAR RAJ)


Subject Expert

Dr. M. BHASKAR, NIT
PROFESSE TRICHY


Alumni

DHAKSHINAMOORTHY. B
Soh. Architect, TATA COMM LTD, CHN


Senior Faculty

(Dr. A. Rajaram)

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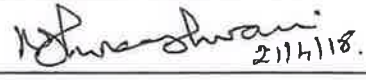
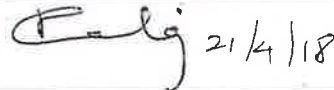

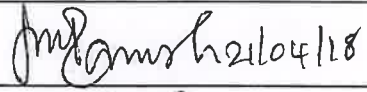
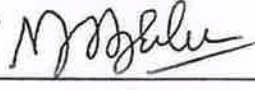
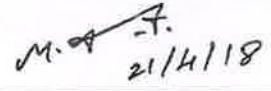


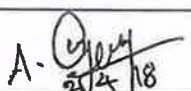
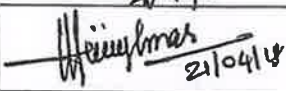
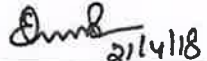
Board of Studies Meeting**Attendance**

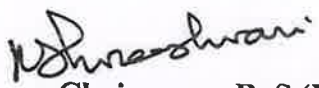
Name of the Department : Electronics and Communication Engineering



Meeting No : 02

Date & Time : 21-04-2018 & 10.00 A.M.

Venue : ECE A/C Seminar Hall

Sl.No.	Name	Category	Signature
1	Prof. R.S.KOTEESHWARI	Chairman	 21/4/18.
2	Dr. MALA JOHN	University Nominee	 21/4/18
3	Dr. M. BHASKAR	External Expert Members	 21/4/2018
4	Dr. J. RAMESH		 21/04/18
5	Dr. N. B. BALAMURUGAN		
6	Mr. YATHEESH MOHAN	Industry / Corporate Sector	 21/4/18
7	Mr. J. MUTHUKUMAR	Alumnus	
8	Mr. B. DHAKSHINAMOORTHY		 21/4/18
9	Dr. A. RAJARAM	Internal Members	 A. Rajaram
10	Dr. A. SUNDAR RAJ		 21/4/18
11	Prof. M. VIJAYAKUMAR		 21/04/18
12	Prof. V. ELAVARASI		 21/4/18

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Chairman – BoS (ECE)
CHAIRMAN
Board of Studies
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Board of Studies Meeting




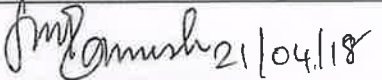
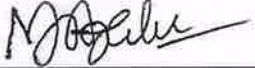
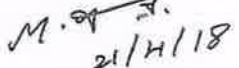
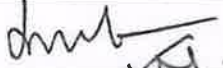
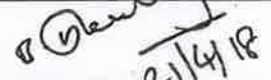
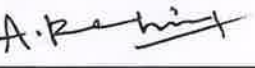

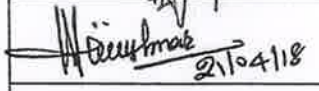
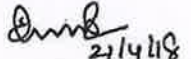
Attendance

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Chairman – BoS (ECE)
CHAIRMAN
Board of Studies
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.
Department of Electronics and Communication Engineering

Minutes of Board of Studies(BoS) Meeting

UG-B.E Electronics and Communication Engineering

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering
Meeting No.	02
Date & Time	21.04.2018 & 10.00 A.M.
Venue	ECE - SJB 115

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6. In Digital Electronics lab, subdivisions and IC number to be removed.
7. Remove references for Laboratory courses, utilize the theory references for laboratory also and make uniform number of experiments for all laboratory courses as 12.
8. In Electronics Circuits lab, Frequency Response of CE/CB/CS amplifier is renamed as design and analysis of CE and CB amplifier.

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Sem 4:

1. Syllabus to be updated for Probability and Random Process.
2. In Signals and Systems, unit 3 must start with impulse response – Convolution Integral - Analysis and characterization of LTI system using Fourier and Laplace transform, in unit 5, Analysis and characterization of DT system using Z transform is changed to Analysis and characterization of DT system using DTFT and Z transform, references will be unique for all subjects and remove the program concepts in all units.
3. In Analog Integrated Circuits, remove the word tuned amplifier in unit 5 title, Text book to be added, unit 1 must consist of basic Op-Amp characteristics, unit 2 must consist of applications of Op-Amp, unit 3 must consist of Op-Amp based feedback amplifiers and oscillators, unit 4 consist of multivibrator, ADC and DAC, unit 5 consist of application IC's like 555 voltage regulator, switched capacitor, frequency to voltage converter, voltage frequency converter, isolation amplifier, audio and video power amplifier, VCO and PLL.
4. In Microprocessor and Microcontroller, unit 5 title is renamed as Architecture of Advanced Processors.
5. In Transmission Lines and Waveguides, unit 2 title is renamed as Impedance matching in Transmission Lines, text book to be added.
6. In Control Systems Engineering, controllers like PI, PID to be replaced in unit 5 and text book to be added.
7. In Analog Integrated Circuits Laboratory, maximum experiments can be 12 and 2 or 3 Simulation experiments is enough.
8. In Microprocessor and Microcontroller laboratory, 8085 consist of basic arithmetic and logic operations, sorting and searching and floating point, 8051 consist of basic arithmetic and logic operations and 5 interfacing experiments.
9. Computer Architecture will be included as compulsory elective in semester V.

Sem 5:

1. In Analog Communication, at the end of the unit 1, superhetrodyne receiver must be added, receiver parameter such as sensitivity, fidelity must be added in unit 2, unit 3 title is changed to Random process [random variables, random process, auto correlation process, power spectral density, stationary process, Wiener-Khinchin theorem, transmission of random process through LTI system, WSS ergodic process, Gaussians] and in unit 4 title is changed to Noise in Communication system [Noise calculation, noise figure, noise temperature, noise equivalent bandwidth, narrowband noise, noise in AM receiver, noise in DSBSC receiver, Noise in SSB receiver, Noise in FM receiver, capture and threshold effect, pre-emphasis and de-emphasis in FM system, Comparison of noise performance of AM and FM systems. In unit 5, PAM, PWM, PPM, Time Division Multiplexing, PFM are to be added. Reference books are replaced by Proakis, Simon Haykin, Digital and Data communication by Jack Quinn.
2. In Digital Signal Processing, unit 1 and unit 5 are swapped and rearrange the unit numbers, reference book 4 need to be changed to reference book 3.
3. In Analog Communication lab, experiment number 1 is changed as generation and demodulation of AM, experiment number 2 is changed as generation and demodulation of FM. Remove experiments number 3 and 4. Experiment number 3 must be FM demodulation using PLL. Experiment number 4 must be study of kit based PAM, PWM. PDM. Experiment number 5 is to be study of FDM and TDM. Experiment number 6 is to be Mat lab/Scilab/Equivalent simulation [Experiment number 6 AM, Experiment number 7 FM, Experiment number 8 super heterodyne, Experiment number 9 is performance analysis of noise in communication system, Experiment number 10 is noise removal(Suppression of interference)
4. In Digital Signal Processing Laboratory, first 7 experiments must be in simulation; next 4 experiments must be in processor. Instead of study experiment, filter implementation using DSPs must be included. Experiment number 9 is generation of waveform using DSPs. Experiment

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- number 6 should be removed. In experiment number 11, change 5x to 54. Processor name should not be mentioned. In additional experiment, don't mention Texas.
5. In Robotic vision, in unit 1 introduction, 2D image transform, image filtering must be included. Unit 2 and unit 3 must be combined as unit 2. Unit 3 is image recognition [feature extraction, transform based, sift, image classification, Bayes classification, SVM, deep learning etc. must be included. Unit 4 title is Video Analytics [Video surveillance, four ground extraction, pedestrian detection, video analytics for navigation, abandoned objects detection etc. Unit 5 should be related to machine learning. Image processing by Gonzalez, Machine learning by Bishop and pattern recognition by Duda and Hart must be added as reference books.
 6. Computer organization and architecture is renamed as Computer Architecture and Organization. Memory related content removed from digital circuits may be brought here in unit 3. Reference book Morris mono should be included.
 7. In measurement and Instrumentation, latest book must be added and check the edition. Refer Shahane as a text book.
 8. In Virtual instrumentation, in unit 5, description should be added and tools set to be elaborated.

Sem 6:

1. In VLSI Design, unit 1 must be removed, instead of that CMOS digital circuits, CMOS invertors, etc. should be included in unit 1.
2. In Digital Communication, unit 1 syllabus should be replaced by university department communication theory 1st unit. Syllabus for unit 2 to unit 5 should be replaced by university department Digital Communication and Techniques. Reference books are also taken from university department.
3. In wireless network and standards, take Schiller and Garg as a text book. It should be removed from further reading.
4. In VLSI Design laboratory, number of experiment should be reduced to 10. Experiment numbers 1, 2 and 3 are combined and consider together as experiment number 1. Similarly Experiment numbers 5, 6 and 7 are combined and consider together as experiment number 3.
5. Information Theory is changed as Information Theory and Coding and follow the University department syllabus.
6. Neural Networks should be removed and move Soft Computing from elective IV (Open Elective) to elective III.

Sem 7:

1. Microwave Electronics is renamed as Microwave Engineering.
2. In wireless communication, unit 4 title is renamed as modulation schemes and spread spectrum. Unit 5 title is renamed as diversity techniques. Few contents from unit 4 is moved to unit 5. Reference book to be added in order.
3. Embedded system is combined with embedded lab. Unit 5 title is renamed as Embedded controller.
4. Embedded System laboratory is to be removed.
5. Pattern recognition, Speech processing, VLSI signal processing, RF system design, Multimedia Communication and Cloud Computing syllabus are to re-written.
6. Remove Advanced Wireless Communication from Elective VII.
7. Remove Wireless Ad-Hoc and Sensor Network from Elective VII and Ad-Hoc wireless Network or Wireless Sensor Network may be included.

Elective courses:

1. CMOS VLSI design is elective IX to be titled as Digital System Design and Testing. Contents of earlier VLSI design (Core) to be used in Digital System Design and Testing.
2. In RF MEMS, unit 1 is renamed as Introduction, remove & symbol from unit 4.
3. In Digital Switching System is retitled as Digital Switching and Transmission.
4. In ARM Processor, unit 3 may be compressed.
5. In Mobile Computing, reference 2 should be moved to reference 1.

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6. Mixed Signal IC Design is renamed as Mixed Signal CMOS Design and reference book to be added.
7. In Radar and Navigation Aids unit 5 title should be changed.
8. In Satellite communication reference book to be added.
9. In system on chip syllabus to be rewritten
10. In low power VLSI syllabus to be based on book Gary Yeap
11. In Analog IC design syllabus to be fully changed based university departments.
12. Remove System design with FPGA
13. Remove cryptography from self-study
14. Remove introduction to Embedded controller from self-study elective
15. In ASIC design remove the unit 4 content and add timing and power consumption issues.
16. Broad band mobile cellular communication has to be renamed as Broadband communication network.
17. In VLSI for Wireless communication reference need to be changed.
18. New one credit course(Embedded system design using MSP430, Software Defined Radio, Application of ANN and Fuzzy logic, Real data acquisition and signal processing using LABVIEW, Internet of Things, Microwave/RF circuit design including 3D EM modeling) replaced instead of Back end design of digital circuits, Android application development, 3D animations AC/DC drives, Raspberry PI
19. In 1 credit paper instead of ANN neural networks and fuzzy logic to be included.
20. Remove SDR from title Software defined Radio
21. Remove IOT from 1 credit course. Instead of that add Python Programming

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Department of Electronics and Communication Engineering

Action Taken for BOS Meeting Minutes held on 21-04-2018

The Following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of 3rd to 8th semester of B.E. Electronics and Communication Engineering and 3rd & 4th Semester of M.E. Communication Systems Programmes the syllabus was approved as presented.
- It is resolved to ratify the changes in Open Elective, Elective IX and Elective X of Regulation 2017 curriculum of B.E. Electronics and Communication Engineering was approved.

List of syllabus revised Courses

Course Code	Course Name	Change Details	Revised
B.E. Electronics and Communication Engineering			
1701MA402	Probability and Random Processes	Syllabus Revision	1 Module changed

List of New Courses Introduced

Course Code	Course Name	Change Details
B.E. Electronics and Communication Engineering		
1701MA302	Engineering Mathematics – III	New Course
1702CS306	Data Structures and C++	New Course
1702EC301	Network Analysis and Synthesis	New Course
1702EC302	Engineering Electromagnetics	New Course
1702EC303	Digital Circuits and Systems	New Course
1702EC304	Electronics Circuits	New Course
1702EC351	Digital Electronics Laboratory	New Course
1702EC352	Electronic Circuits Laboratory	New Course
1702CS353	Data Structures Laboratory	New Course
1704GE351	Life Skills: Soft Skills	New Course
1704EC046	Introduction to HDL	New Course
1702EC401	Signals and Systems	New Course
1702EC402	Analog Integrated Circuits	New Course
1702EC403	Microprocessors and Microcontrollers	New Course
1702EC404	Transmission Lines and Waveguides	New Course
1702EC405	Control Systems	New Course
1701CH201	Environmental Studies*	New Course
1702EC451	Analog Integrated Circuits Laboratory	New Course
1702EC452	Microprocessors and Microcontrollers Laboratory	New Course
1704GE451	Life Skills: Verbal Ability	New Course
1704EC050	Application of Neural Network and Fuzzy Logic	New Course
M.E. Communication Systems		
1703CO001	Advanced Digital Image processing (Elective – IV)	New Course
1703CO009	Network Routing Algorithms (Elective – V)	New Course
1703CO022	Advanced Display System (Elective – VI)	New Course
1704CO301	Project Work Phase -I	New Course
1704CO401	Project Work Phase -II	New Course

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List of CBCS/Electives for / offered by B.E. – Electronics and Communication Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
PROFESSIONAL ELECTIVES – I									
1703EC001	Nano Electronics	3	0	0	3	40	60	100	PE
1703EC002	Automotive Electronics	3	0	0	3	40	60	100	PE
1703EC003	Micro Electronics	3	0	0	3	40	60	100	PE
1703EC004	Biomedical Engineering	3	0	0	3	40	60	100	PE
1703EC005	Robotic Vision	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – II									
1703EC006	Computer Architecture and Organization	3	0	0	3	40	60	100	PE
1703EC007	Advanced Microcontrollers	3	0	0	3	40	60	100	PE
1703EC008	Measurement and Instrumentation	3	0	0	3	40	60	100	PE
1703EC009	Virtual Instrumentation	3	0	0	3	40	60	100	PE
1703EC010	Operating Systems	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – III (OPEN ELECTIVES)									
1703EC011	Information Theory and Coding	3	0	0	3	40	60	100	PE
1703EC012	Digital Control Engineering	3	0	0	3	40	60	100	PE
1703EC013	Network Security	3	0	0	3	40	60	100	PE
1703EC014	Internet of Things	3	0	0	3	40	60	100	PE
1703EC015	Soft Computing	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – IV									
1703EC016	Cloud Computing	3	0	0	3	40	60	100	OE
1703EC017	Real Time Operating Systems	3	0	0	3	40	60	100	OE
1703EC018	Big Data Analytics	3	0	0	3	40	60	100	OE
1703EC019	Introduction to Web Technology	3	0	0	3	40	60	100	OE
1703EC020	Grid Computing	3	0	0	3	40	60	100	OE
PROFESSIONAL ELECTIVES – V (OPEN ELECTIVES)									
1703MG001	Principles of Management	3	0	0	3	40	60	100	OE
1703MG002	Disaster Management	3	0	0	3	40	60	100	OE
1703MG005	Total Quality Management	3	0	0	3	40	60	100	OE
1703MG006	Industrial Economics	3	0	0	3	40	60	100	OE
1703MG007	Foundation Skills in Integrated Product Development	3	0	0	3	40	60	100	OE
PROFESSIONAL ELECTIVES – VI									
1703EC021	Advanced Digital Signal Processing	3	0	0	3	40	60	100	PE
1703EC022	Embedded System	3	0	2	4	40	60	100	PE
1703EC023	Pattern Recognition and Machine Learning	3	0	0	3	40	60	100	PE
1703EC024	Speech Processing	3	0	0	3	40	60	100	PE
1703EC025	VLSI Signal Processing	3	0	0	3	40	60	100	PE
1703EC026	RF System Design	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – VII									
1703EC027	Multimedia Communication	3	0	0	3	40	60	100	PE
1703EC028	Wireless Sensor Networks	3	0	0	3	40	60	100	PE
1703EC029	Radar and Navigation Aids	3	0	0	3	40	60	100	PE
1703EC030	Microwave Integrated Circuits	3	0	0	3	40	60	100	PE
1703EC031	Satellite Communication	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – VIII									
1703EC032	System-on Chip Design	3	0	0	3	40	60	100	PE
1703EC033	Network on Chip Design	3	0	0	3	40	60	100	PE
1703EC034	Low Power VLSI Design	3	0	0	3	40	60	100	PE
1703EC035	Analog IC Design	3	0	0	3	40	60	100	PE
1703EC036	Mixed Signal CMOS Design	3	0	0	3	40	60	100	PE
PROFESSIONAL ELECTIVES – IX									
1703EC037	Electromagnetic Interference and Compatibility	3	0	0	3	40	60	100	PE
1703EC038	Digital System Design and Testing	3	0	0	3	40	60	100	PE

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BOS Chairman - ECE

B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
Regulations 2017 Approved in Board of Studies Meeting held on 21-04-2018

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
1703EC039	Optical Networks	3	0	0	3	40	60	100	PE
1703EC040	RF MEMS	3	0	0	3	40	60	100	PE
1703EC041	Digital Switching and Transmission	3	0	0	3	40	60	100	PE
1703EC042	ARM Processors	3	0	0	3	40	60	100	PE
1703EC043	Mobile Computing	3	0	0	3	40	60	100	PE
ONE CREDIT COURSES									
1704EC044	Programmable Logic Controllers (PLC) Programming	1	0	0	1	40	60	100	EEC
1704EC045	Advanced Verification Methodologies	1	0	0	1	40	60	100	EEC
1704EC046	Introduction to HDL	1	0	0	1	40	60	100	EEC
1704EC047	Embedded Systems Design Using MSP430	1	0	0	1	40	60	100	EEC
1704EC048	Arduino Microcontroller	1	0	0	1	40	60	100	EEC
1704EC049	Software defined radio	1	0	0	1	40	60	100	EEC
1704EC050	Applications of Neural Network and Fuzzy Logic	1	0	0	1	40	60	100	EEC
1704EC051	Real Time Data Acquisition And Signal Processing Using Labview	1	0	0	1	40	60	100	EEC
1704EC052	Python Programming	1	0	0	1	40	60	100	EEC
1704EC053	Microwave/RF circuit design Including 3D EM Modeling	1	0	0	1	40	60	100	EEC

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

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Professional Electives									
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

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B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
 | Regulations 2017 Approved in Board of Studies Meeting held on 21-04-2018

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Professional Electives									
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
Open Electives									
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
Self-Study Electives									
1703CO037	Neural Computing	3	0	0	3	40	60	100	PE
1703CO038	Biometrics for Network Security	3	0	0	3	40	60	100	PE
1703CO039	Medical Image Processing	3	0	0	3	40	60	100	PE
1703CO040	Robotics and Automation	3	0	0	3	40	60	100	PE
One Credit Course									
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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HEAD OF THE DEPARTMENT
 Dept. of Electronics & Communication Engg.
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BOS Chairman - ECE

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Board of Studies Meeting**Attendance**

Name of the Department : Electronics and Communication Engineering

Meeting No : —

Date & Time : 15-05-2019 & 10.00 A.M.

Venue : ECE A/C Seminar Hall

Sl.No.	Name	Category	Signature
1	Dr. B. PADMANABAN	Chairman	<i>[Signature]</i> 15/5/19
2	Dr. MALA JOHN	University Nominee	<i>[Signature]</i> 15/5/19
3	Dr. D.SRIRAMKUMAR	External Expert Members	<i>[Signature]</i> 15/5/2019
4	Dr. R. RAMESH		<i>[Signature]</i> 15/5/19
5	Mr. V. UDAYA SANKAR	Industry / Corporate Sector	<i>[Signature]</i>
6	Ms. R. NANDHINI	Alumnus	<i>[Signature]</i> R. Nandhini
7	Dr. A. RAJARAM	Internal Members	<i>[Signature]</i> A. Rajaram
8	Dr. A. SUNDARRAJ		<i>[Signature]</i> A. Sundarraj
9	Prof. K. PARTHASARATHY		<i>[Signature]</i> K. Parthasarathy
10	Prof. RS.KOTEESHWARI		<i>[Signature]</i> R. S. Koteeshwari
11	Prof. S. CHITRA		<i>[Signature]</i> S. Chitra
12	Prof. V. ELAVARASI		<i>[Signature]</i> V. Elavarasi
13	Prof. M. NUTHUL SRINIVASAN		<i>[Signature]</i> 15/5/19

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[Signature]
 Chairman – BOS (ECE)



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UG-B.E Electronics and Communication Engineering

BOS Meeting Minutes:

1. Analog and Digital Communication is divided into two courses.
2. Microwave Engineering has to be included.
3. Semester wise subject details have to be changed.
4. Data Structure theory and lab course have to be combined as single integrated course with 3 credits (2 credits for theory and 1 credit for lab).
5. Credit for Electromagnetic theory has to be changed from 4 to 3.
6. Signals and Systems have to be changed to core course.
7. All lab hours have to be changed from 3 hours to 2 hours (1 credit).
8. The name project viva has to be changed as Project work.
9. Professional core elective is renamed as Professional elective.
10. For mini projects, don't mention any specific title or subject.
11. One credit courses such as Verbal, Reasoning, Aptitude etc. have to be removed.
12. Remove the virtual lab or move to lower semester (3 or 4).
13. Comprehensive viva has to be changed as seminar as one credit course.
14. Course code has to be changed as per AICTE format.
15. Combine Microwave theory and lab courses as single course with 4 credits.
16. Elective courses have to be changed as given below
17. In Elective V, combine Fiber optic communication theory and lab as a single integrated course with 3 credits.

Elective – I:

- i. Operating Systems
- ii. Bio Medical
- iii. Embedded Systems
- iv. Measurements and Instrumentation

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CHAIRMAN

Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

Elective – 2:

- i. Image Processing
- ii. Digital Switching and Transmission
- iii. Real Time Operating System
- iv. Artificial Intelligence

Elective – 3:

- i. Computer Architecture
- ii. MEMS
- iii. Soft Computing
- iv. VLSI Signal Processing


Elective – 4:


- i. Wireless Sensor Networks
- ii. RADAR and Navigation
- iii. Mixed Signal CMOS Design
- iv. Internet of Things

Elective – 5:

- i. Fiber Optic Communication
- ii. Satellite Communication
- iii. Network Security
- iv. Web Technology

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HOD, ECE
Dr. B. PADMANABAN, M.E., Ph.D.,
Professor & Head,
Department of Electronics and
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E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.



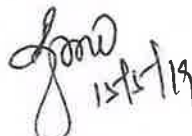
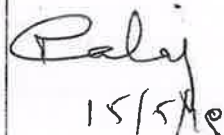
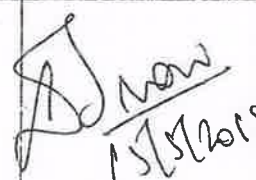

E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



Department of Electronics and Communication
Engineering

Minutes of the Board of Studies (BoS) held on 15.05.2019




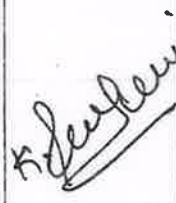


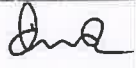
**The UG Curriculum(Regulations 2019) pertaining to B.E. – ECE has
been framed (Enclosed in Annexure – I)**

Sl.No.	Name	Category	Signature
1	Dr.B.Padmanaban, Professor & Head, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College,Nagapattinam – 611002. Email.ID:dr.padmanaban83@gmail.com Mobile Number:9994163733	Chairman	 15/5/19
2	Dr.Mala John, Professor, Department of Electronics and Communication Engineering, Madras Institute of Technology, MIT Road, Radha Nagar, Chromepet, Chennai – 600044 Email ID:malaajohn@annauniv.edu Mob. No.9444443706	University Nominee	 15/5/19
3	Dr.D.Sriramkumar, Professor, Department of Electronics and Communication Engineering, National Institute of technology,Tiruchirappalli -- 620015. Email.ID: srk@nit.edu Mobile Number :9443494495	External Expert Members	 15/5/2019
4	Dr.R.Ramesh, Senior Assistant Professor, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur. Email ID:ramesh@ece.sastra.edu Mobile Number : 9944062307		 15/5/19

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



Department of Electronics and Communication
Engineering
Board of Studies (BoS) Members

Sl.No.	Name	Category	Signature
6	R.Nandhini, Teaching Faculty, Chinmaya vidyalaya(CBSE), Nagapattinm Mobile:8438136248	Alumini	
7	Dr.A.Rajaram Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College,Nagapattinam – 611002. Mobile: 9942035947	Internal Members	
8	Dr.A.SundarRaj Associate Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College,Nagapattinam – 611002. Email ID: sundarraj198886@gmail.com Mobile:9865173406		
9	K.Parthasarathy, Associate Professor , Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College,Nagapattinam – 611002. Email ID: kp_sarathi78@yahoo.co.in Mobile:984294464		
10	R.S.Koteeshwari, Associate Professor , Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College,Nagapattinam – 611002. Email ID: eshwari.kote5@gmail.com Mobile:7904338947	Internal Members	
11	S.Chitra, Asst.Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College,Nagapattinam – 611002. Email ID: chithrapriyadharshini@gmail.com Mobile:9487485874		
12	V.Elavarasi Asst.Professor,		

ATTESTED

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

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

	E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: chithrapriyadharshini@gmail.com Mobile:9487485874		
12	V.Elavarasi Asst.Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: suthanmathi@gmail.com Mobile:9943397484		
13	M.Nuthal Srinivasan, Asst. Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:nuthal4u@gmail.com Mobile:9597077499		 25/5/19

ATTESTED


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

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

Annexure – I
Dated: 15.05.2019

Degree: B.E.

Programme: ECE

Batch: 2019-2020 onwards

Credit Distribution

S.No	Category	Credits
A	Foundation Courses	57
	Humanities, Social Science and management (HSS)	7
	Basic Science (BS)	27
	Engineering Science (ES)	23
B	Professional Core Courses	53
C	Elective Courses	30
	Programme specific Electives	15
	Open Electives	6
	Humanities, Social Science and management (HSS) Electives	9
D	Project work, seminar, internship in industry or at Higher Learning institutions	10
E	Mandatory Courses – Environment Science, Induction Programme, Indian Constitution, Essence of Indian Tradition knowledge	Non Credit (Not included for CGPA)
	Minimum Credits to be earned for the award of the Degree	150 (from A to E) and the successful completion of Mandatory Courses

A. FOUNDATION COURSES:

Total Credits to be earned: (50)

a. Humanities and Social Science (7)

S.No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
		THEORY				
1.		English for Engineers	2	-	-	2
2.		Professional Ethics	2	-	-	2
3.		Communication skills	-	-	2	1
4.		Presentation skills	-	-	2	1
		PRACTICALS				
1.		English Laboratory	-	-	2	1

b. Humanities, Social Science and Management Electives(9)

S.No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
		Elective 1				
1.		Project Management and Finance	3	-	-	3

ATTESTED

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

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

CHAIRMAN

Board of Studies
Department of Electronic &
Communication Engineering

EGS Pillay Engineering College (Autonomous)
Nagapattinam.

1.		BEEE lab	0	0	2	1
2.		Computer Programming Lab	0	0	2	1
3.		Computer Hardware trouble shooting Lab	0	0	2	1
4.		CAD for Engineering Graphics Lab	0	0	2	1

B. CORE COURSES

Credits to be earned: (53)

Sl. No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
THEORY						
1.		Digital Electronics	3	0	0	3
2.		Electronics Circuits	3	0	0	3
3.		Signals and Systems	3	1	0	4
4.		Analog Integrated Circuits	3	0	0	3
5.		Microprocessors and Microcontrollers	3	0	0	3
6.		Communication Systems - I	3	1	0	4
7.		Communication Systems - II	3	0	0	3
8.		Transmission Lines and Wave Guides	3	0	0	3
9.		Digital Signal Processing	3	0	0	3
10.		Communication Networks	3	0	0	3
11.		VLSI Design	3	0	0	3
12.		Antenna and Wave Propagation	3	0	0	3
13.		Wireless Communication	3	0	0	3
14.		Microwave and Fiber Optic Communication	3	0	2	4
PRACTICALS						
15.		Digital Electronics Laboratory	0	0	2	1
16.		Electronic Circuits Laboratory	0	0	2	1
17.		Analog Integrated Circuits and Simulation Laboratory	0	0	3	1
18.		Microprocessors and Microcontrollers Laboratory	0	0	3	1
19.		Communication Systems Lab	0	0	2	1
20.		Digital Signal Processing Laboratory	0	0	3	1
21.		VLSI Design Laboratory	0	0	3	1
22.		Communication and Networks Laboratory	0	0	3	1

C. PROFESSIONAL ELECTIVES

Credits to be earned: (15)

Sl. No.	Course	Name of the Course	Number of	Credit
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ATTESTED

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

PRINCIPAL

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

CHAIRMAN

Board of Studies

Department of Electronic &
Communication Engineering

E.G.S Pillay Engineering College (Autonomous)
Nagapattinam.

Semester I (First year)
Branch/Course Electronics & Communication Engineering

Sr.No.	Course Code	CourseTitle	L	T	P	Contact Hrs./wk.	Credits
1		Engineering Mathematics-I	3	1	0	4	4
2		Applied Chemistry	3	0	0	3	3
3		Programming for Problem solving	3	0	0	3	3
4		English for Engineers	2	0	0	2	2
5		Chemistry Lab	0	0	2	2	1
6		Computer Programming Lab	0	0	2	2	1
7		English Lab	0	0	2	2	1
8		Communication Skills	1	0	0	1	1
TOTALCREDITS							16

Semester II (First year)
Branch/Course Electronics & Communication Engineering

Sr.No.	Course Code	CourseTitle	L	T	P	Contact Hrs./wk.	Credits
1		Engineering Mathematics – II	3	1	0	4	4
2		Applied Physics	3	0	0	3	3
3		Basic Electrical and Electronics Engineering	3	0	0	3	3
4		Engineering Graphics	3	0	0	3	3
5		Computer Hardware Trouble shooting Lab	0	0	2	2	1
6		Physics Lab	0	0	2	2	1
7		BEEE Lab	0	0	2	2	1
8		CAD Lab	0	0	2	2	1
9		Presentation Skills	0	0	2	2	1
TOTALCREDITS							18

Semester III (Second year)
Branch/Course Electronics & Communication Engineering

Sr.No.	Course Code	CourseTitle	L	T	P	Contact Hrs./wk.	Credits
1		Engineering Mathematics – III	3	1	0	4	4
2		Digital Electronics	3	0	0	3	3
3		Electronics Circuits	3	0	0	3	3
4		Signals & Systems	3	1	0	4	4
5		Biology for Engineers	3	0	0	3	3
6		Digital Electronics Lab	0	0	2	2	1
7		Electronics Circuits Lab	0	0	2	2	1
	MC	Constitution of India					0

ATTESTED

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

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

CHAIRMAN

Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

		TOTALCREDITS	19
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Semester IV (Second year]
Branch/Course Electronics & Communication Engineering

Sr.No.	Course Code	CourseTitle	L	T	P	Contact Hrs./wk.	Credits
1		Electromagnetic Fields	3	1	0	4	4
2		Analog Integrated Circuits	3	0	0	3	3
3		Communication Systems – I	3	1	0	4	4
4		Microprocessor and Microcontroller	3	0	0	3	3
5		Probability and Random Process	4	0	0	4	4
6		Analog Integrated Circuits and Simulation Lab	0	0	2	2	1
		Microprocessor and Microcontroller Lab	0	0	2	2	1
7	MC	Environmental Science					0
		TOTALCREDITS					20

Semester V (Third year]
Branch/Course Electronics & Communication Engineering

Sr.No.	Course Code	CourseTitle	L	T	P	Contact Hrs./wk.	Credits
1		Communication Systems - II	3	0	0	3	3
2		Control Systems	3	0	0	3	3
3		Data Structures and C++	2	0	2	4	3
4		Digital Signal Processing	3	0	0	3	3
5		Transmission Lines and Waveguides	3	0	0	3	3
6		Professional Elective – I	3	0	0	3	3
7		Communication System Lab	0	0	2	2	1
8		Digital Signal Processing Lab	0	0	2	2	1
9		Mini Project 1	0	0	2	2	1
	MC	Essence of Indian Traditional Knowledge					0
		TOTALCREDITS					21

Semester VI (Third year]
Branch/Course Electronics & Communication Engineering

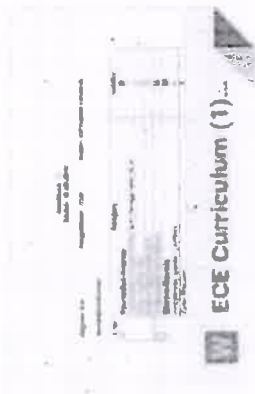
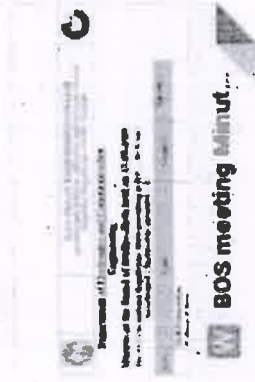
Sr.No.	Course Code	CourseTitle	L	T	P	Contact hrs./wk.	Credits
1		VLSI Design	3	0	0	3	3
2		Communication Networks	3	0	0	3	3
3		Antenna and Wave Propagation	3	0	0	3	3
4		Professional Elective – II	3	0	0	3	3
5		HSS Elective – I	3	0	0	3	3
6		Open Elective – I	3	0	0	3	3

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.


CHAIRMAN
Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

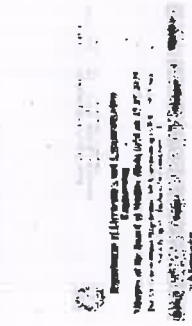
2 Attachments



HOD ECE <hodece@egspec.org>
to principal

...

2 Attachments



ATTESTED
[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

[Signature]
CHAIRMAN
Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

Train Ticket from Chennai to Nagapattinam and Flight Ticket from Trichy to Chennai - BOS meeting - EGS Pillay Engineering College

HOD ECE <hodece@egspec.org>
to malajohnmit

Dear Professor,
Herewith we have attached the train ticket and flight ticket for your reference.
PFA

Thanks & Regards
with regards,

Dr. B. Padmanaban M.E. Ph.D.,
Professor & Head
Chairman-Board of Studies
Department of Electronics and Communication Engineering
E.G.S Pillay Engineering College (Autonomous), Nagapattinam, Tamilnadu, India.
Mobile: +91-9994163733.

2 Attachments

- 2019 BE CURRIC...docx
- ECE Curriculum (...).docx
- BOS meeting Mi...docx
- BOS meeting Mi...docx

CHAIRMAN
Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

ATTESTED
Br. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thathi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.



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

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE & Mech) / Accredited by NAAC with 'A' Grade

Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi

An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

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

Ref. No. : EGSPEC/BoS/2018-2019/16

Date : 09/05/2019

To

Dr.R.Ramesh,

SAP,

School of Electrical and Electronics Engineering,

SASTRA University,

Thanjavur.

Sir,

Sub: Convening the Board of Studies Meeting - Invitation - Reg.

We are honoured to have your good self as an External Expert in the Board of Studies for the Department of **Electronics and Communication Engineering** of our Institution for the academic year 2018-19.

Considering the academic schedule of the esteemed members, it is planned to convene the Meeting of the Board of Studies on **Wednesday, the 15th of May 2019 at 10.00 a.m.** in our College to consider and approve the Curriculum & Syllabus prepared for the Regulation R2019 based on the AICTE model curriculum for UG Degree Courses in Engineering & Technology (Jan 2018).

We invite you to attend the meeting and share your valuable experience for the successful implementation of the Regulation R2019 in our Autonomous system for the benefit of all stake holders.

Thanking you,

Yours faithfully,

PRINCIPAL

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



EGS PEC



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

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

Ref. No. : EGSPEC/BoS/2018-2019/18

Date : 09/05/2019

To

Mr.B.Dhakshinamoorthy,
Solution Architect,
Tata Communication Limited,
4th floor, Jayanth Tech Park,
Nungambakkam,
Chennai – 600 089.

Sir,

Sub: Convening the Board of Studies Meeting - Invitation - Reg.

We are honoured to have your good self as Alumni in the Board of Studies for the Department of **Electronics and Communication Engineering** of our Institution for the academic year 2018-19.

Considering the academic schedule of the esteemed members, it is planned to convene the Meeting of the Board of Studies on **Wednesday, the 15th of May 2019 at 10.00 a.m.** in our College to consider and approve the Curriculum & Syllabus prepared for the Regulation R2019 based on the AICTE model curriculum for UG Degree Courses in Engineering & Technology (Jan 2018).

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Thanking you,

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Th-thi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



Yours faithfully,


PRINCIPAL

**E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)**

Nagapattinam - 611 002, Tamilnadu, India.

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

Ref. No. : EGSPEC/BoS/2018-2019/15

Date : 09/05/2019

To

Dr. Mala John,
Professor,
Department of Electronics and Communication Engineering,
Madras Institute of Technology,
MIT Road, Radha Nagar,
Chromepet, Chennai – 600 044.

Madam,

Sub: Convening the Board of Studies Meeting - Invitation - Reg.

We are honoured to have your good self as University Nominee of Anna University, Chennai in the Board of Studies for the Department of **Electronics and Communication Engineering** of our Institution for the academic year 2018-19.

Considering the academic schedule of the esteemed members, it is planned to convene the Meeting of the Board of Studies on **Wednesday, the 15th of May 2019 at 10.00 a.m.** in our College to consider and approve the Curriculum & Syllabus prepared for the Regulation R2019 based on the AICTE model curriculum for UG Degree Courses in Engineering & Technology (Jan 2018).

We invite you to attend the meeting and share your valuable experience for the successful implementation of the Regulation R2019 in our Autonomous system for the benefit of all stake holders.

Thanking you,

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thathi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.



Yours faithfully,


PRINCIPAL

**E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)**

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

Ref. No. : EGSPEC/BoS/2018-2019/17

Date : 09/05/2019

To

Dr.D.Sriramkumar,

Professor,

Department of Electronics and Communication Engineering,

National Institute of Technology,

Tirichirappalli – 620 015.

Sir,

Sub: Convening the Board of Studies Meeting - Invitation - Reg.

We are honoured to have your good self as an External Expert in the Board of Studies for the Department of **Electronics and Communication Engineering** of our Institution for the academic year 2018-19.

Considering the academic schedule of the esteemed members, it is planned to convene the Meeting of the Board of Studies on **Wednesday, the 15th of May 2019 at 10.00 a.m.** in our College to consider and approve the Curriculum & Syllabus prepared for the Regulation R2019 based on the AICTE model curriculum for UG Degree Courses in Engineering & Technology (Jan 2018).

We invite you to attend the meeting and share your valuable experience for the successful implementation of the Regulation R2019 in our Autonomous system for the benefit of all stake holders.

Thanking you,

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



Yours faithfully,


PRINCIPAL



E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.
Department of Electronics and Communication Engineering

Action Taken for BOS Meeting Minutes held on 15-05-2019

The Following resolutions were passed

- It is resolved to recommend the curriculum (Regulations 2019) and syllabi of 1st to 8th semester of B.E. Electronics and Communication Engineering was approved as presented.

List of syllabus revised Courses

Course Code	Course Name	Change Details	Revised
B.E. Electronics and Communication Engineering			
1901MA104	Engineering Mathematics –I (Linear Algebra, Calculus and Partial differentiation)	Syllabus Revision	4 module Changed
1901ENX01	English for Engineers	Syllabus Revision	2 Module and some content changed
1901MA204	Engineering Mathematics –II (Calculus, Ordinary Differential Equations and Complex Variable)	Syllabus Revision	4 module Changed
1901GEX02	Engineering Graphics	Syllabus Revision	2 Module and some content changed
1901PHX51	Engineering Physics Laboratory	Syllabus Revision	2 Module and some content changed

List of New Courses Introduced

Course Code	Course Name	Change Details
B.E. Electronics and Communication Engineering		
1901CH102	Chemistry for Electronic Engineers	New Course
1901GEX03	Programming for Problem Solving	New Course
1901GEX52	Computer Programming Laboratory	New Course
1901GE151	Engineering Intelligence I	New Course
1901CHX51	Engineering Chemistry Laboratory	New Course
1901HSX51	Communication Skill Laboratory	New Course
1901PH202	Semiconductor Physics and Optoelectronics	New Course
1901GEX01	Basic Electrical and Electronics Engineering	New Course
1901GE201	Engineering Exploration	New Course
1901GE254	Computer Hardware and IT Essentials Laboratory	New Course
1901GE252	Engineering Intelligence II	New Course
1901GEX51	CAD Laboratory	New Course
1901GEX53	Basic Electrical and Electronics Engineering Laboratory	New Course

ATTESTED

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

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

BOS Chairman - ECE

List of CBCS/Electives for / offered by B.E. – Electronics and Communication Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
PROFESSIONAL ELECTIVES – I									
1903EC001	Computer Architecture and Organization	3	0	0	3	40	60	100	PEC
1903EC002	Advanced Microcontrollers	3	0	0	3	40	60	100	PEC
1903EC003	Measurement and Instrumentation	3	0	0	3	40	60	100	PEC
1903EC004	Display Systems	3	0	0	3	40	60	100	PEC
1903EC005	Renewable Energy Engineering	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – II									
1903EC006	Radar and Navigation Aids	3	0	0	3	40	60	100	PEC
1903EC007	Automotive Electronics	3	0	0	3	40	60	100	PEC
1903EC008	Internet of Things	3	0	0	3	40	60	100	PEC
1903EC009	Biomedical Engineering	3	0	0	3	40	60	100	PEC
1903EC010	Information Coding Techniques	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – III									
1903EC011	Micro Electronics	3	0	0	3	40	60	100	PEC
1903EC012	Robotics	3	0	0	3	40	60	100	PEC
1903EC013	Network Security	3	0	0	3	40	60	100	PEC
1903EC014	Soft Computing	3	0	0	3	40	60	100	PEC
1903EC015	Advanced Digital Signal Processing	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – IV									
1903EC016	Machine Learning and Pattern recognition	3	0	0	3	40	60	100	PEC
1903EC017	Embedded System	3	0	0	3	40	60	100	PEC
1903EC018	Multimedia Communication	3	0	0	3	40	60	100	PEC
1903EC019	Wireless Communication	3	0	0	3	40	60	100	PEC
1903EC020	High Speed Switching Networks	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – V									
1903EC021	Nano Electronics	3	0	0	3	40	60	100	PEC
1903EC022	Opto Electronic Devices	3	0	0	3	40	60	100	PEC
1903EC023	Speech Processing	3	0	0	3	40	60	100	PEC
1903EC024	Microwave Integrated Circuits	3	0	0	3	40	60	100	PEC
1903EC025	Satellite Communication	3	0	0	3	40	60	100	PEC
HSS Elective - I									
1901MGX01	Total Quality Management	3	0	0	3	40	60	100	PEC
1901MGX02	Project Management and Finance	3	0	0	3	40	60	100	PEC
1901MGX03	Operations Research	3	0	0	3	40	60	100	PEC
1901MGX04	Principles of Management	3	0	0	3	40	60	100	PEC
HSS Elective - II									
1901HS001	Innovation & Entrepreneurship fundamentals	3	0	0	3	40	60	100	PEC
1901HS002	Intellectual Property Rights for Engineers	3	0	0	3	40	60	100	PEC
1901HS003	Startup Entrepreneurship	3	0	0	3	40	60	100	PEC
1901HS004	Business Model Innovation	3	0	0	3	40	60	100	PEC
ONE CREDIT COURSES									
1904EC001	Electromagnetic Interference and Compatibility	1	0	0	1	40	60	100	EEC
1904EC002	Digital System Design and Testing	1	0	0	1	40	60	100	EEC
1904EC003	Optical Networks	1	0	0	1	40	60	100	EEC
1904EC004	RF MEMS	1	0	0	1	40	60	100	EEC
1904EC005	Digital Switching and Transmission	1	0	0	1	40	60	100	EEC

ATTESTED

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

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

Naganattinur, (Dt) Tamil Nadu.

BOS Chairman - ECE

B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
 Regulations 2019 Approved in Board of Studies Meeting held on 15-05-2019

1904EC006	ARM Processors	1	0	0	1	40	60	100	EEC
1904EC007	Mobile Computing	1	0	0	1	40	60	100	EEC
1904EC008	R Statistical Analysis	1	0	0	1	40	60	100	EEC
1904EC009	Python for Everybody	1	0	0	1	40	60	100	EEC
1904EC010	Introduction to HDL	1	0	0	1	40	60	100	EEC

(OPEN ELECTIVES) – ODD Semester

The courses listed below are offered by the Department of Electronics and Communication Engineering for students of other Departments.

1903EC017	Embedded Systems	3	0	0	3	40	60	100	OEC
1903EC007	Automotive Electronics	3	0	0	3	40	60	100	OEC
1903EC026	Mobile Communication	3	0	0	3	40	60	100	OEC
1903EC004	Display systems	3	0	0	3	40	60	100	OEC
1903EC027	Analog and Digital Communication	3	0	0	3	40	60	100	OEC

(OPEN ELECTIVES) – Even Semester

The courses listed below are offered by the Department of Electronics and Communication Engineering for students of other Departments.

1903EC028	Medical Electronics	3	0	0	3	40	60	100	OEC
1903EC029	High Speed Networks	3	0	0	3	40	60	100	OEC
1903EC030	Generations of Communication Technology	3	0	0	3	40	60	100	OEC
1903EC031	Optical Networks	3	0	0	3	40	60	100	OEC
1903EC025	Satellite Communication	3	0	0	3	40	60	100	OEC

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HEAD OF THE DEPARTMENT
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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering M.E. Communication Systems
Meeting No.	03 (04)
Date & Time	12.06.2020 & 03.00 P.M.
Venue	Online Mode - Google Meets Room

1. Chairman / BoS welcomed all members for the 3rd meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS review the contents of 2nd BOS meeting.
4. Chairman / BoS briefed the members about the Agenda.

- To finalize the curriculum and syllabi of 3rd & 4th Semester in B.E - Electronics and Communication Engineering and 1st & 2nd Semester in M. E - Communication Systems.
- Any other matters.

5. The following are the suggestions given by the members of Board of Studies in curriculum.


- Open elective: 5 subjects per each module should include.
- 6th semester needs one programming paper if possible, in python or Java.
- Suggested to include Programming concepts in Internet of Things, Soft Computing and Embedded Systems papers.
- Python and Java is very much needed in current scenario (software development methodology) so it should be included in syllabus.

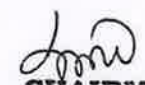
B.E Electronics and Communication Engineering

III - Semester:

1. Electron devices -> Electronic devices: Reduce content of unit 4, and in 3rd unit, FINFET and advance concepts should be removed. Update reference books to be latest editions.
2. Circuit and Networks: Remove Dr.Salivahanan book, include Dr.Arumugam book.
3. Digital Electronics: Change 5th unit to applications or 3rd unit can be split and it is added in 5th unit. Dr.Salivahanan need to be included, Goanker book to be excluded.
4. Biology for Engineers: Reduce the content of 4th and 5th units.
5. Object oriented programming and Data Structure: Can be updated in python.
6. Electron Devices and Circuits Laboratory-> Devices and Circuits laboratory, Mention IC name in experiments, Include DIAC in experiment, change title of experiments as it is in Digital Electronics lab.
7. Digital Electronics Laboratory: Xilinx simulation is good.
8. Object oriented programming and Data Structure Laboratory: Can include python based experiments.

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Department of Electronic &
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IV - Semester:

1. Electronic circuits: Unit 2: Multi stage differential amplifiers should be removed. Include Negative feedback amplifiers and reduce applications in unit 5. Telescope and Cascade amplifier to be removed.
2. Signals and systems: Unit 3 title to continuous time signal than CT. Include latest reference books. Entire syllabus to be revised. Heavy portion.
3. Micro controller and its application: 8085 should be included from Digital electronics and name should be changed as microprocessor and micro controller. 2-unit microprocessor +3-unit micro controllers. Interfaces may be added in syllabus.
4. Electromagnetic fields: syllabus need to be reduced and re-modify it.
5. Analog Integrated Circuits and its application->Analog Integrated Circuits: Linear noise in amplifiers should be removed. Include some basic concepts.
6. Laboratory Course
7. Electronic Circuits Lab: Re-modify experiment 1,2,3 and include Tuned amplifier, Feedback amplifier, Power amplifier concepts. More number of simulation experiments needed.
8. Analog Integrated Circuits Laboratory: DC changes to Regulated Power Supply (RPS)
9. Micro controller and its application Laboratory->Microprocessor and Micro controller lab.

V - Semester:

1. Analog and Digital Communication may be split into Analog communication and Digital Communication
2. Computer Organization can be moved into Elective. Instead IOT or Soft computing can be included

General Comments:

1. As already two subjects on English are available, it is better include the content of the subject "Verbal ability" in the subject "Communication skills" in the second semester and replace with other technical subject.
2. The subject on "Constitution of India" may be included as included as the audit compulsory course instead of credit course.
3. It is good to see the subject "Biology for Engineers" in the curriculum.
4. The mentioning of "Artificial Neural Network and Genetic algorithms" in the Further reading section for the subject: Object oriented programming is inappropriate.

M.E. Communication Systems

I - Semester:

1. Applied Engineering Mathematics should contain Random process and Probability subject concepts.
2. Optical switching networks ->Optical networks.
3. Wireless Communication Engineering: Include 5G concepts, Remove repeated UG contents.

II - Semester:

1. Technical seminar may be split into Technical seminar 1 and Technical seminar II.
2. FPGA based communication system design can be renamed as Digital integrated circuits based communication system design.

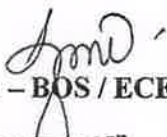
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General Comments:

1. Choose some other subject for FPGA Based Communication System Design and Electromagnetic Interference & Compatibility in System Design. Those can replace with RF IC design, Multimedia compression techniques, Radiating systems or Digital Integrated circuits.
2. Remove Optical Signal Processing.


Chairman – BOS / ECE

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Department of Electronic &
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Academic Year 2019 - 2020

Date: 12.6.2020

Department of ECE

Action Taken for BOS Meeting Minutes

B.E - ELECTRONICS AND COMMUNICATION ENGINEERING

SEMESTER III

1. Electron devices changed to Electronic devices and Electron Devices and Circuits Laboratory changed to Devices and circuits laboratory
2. Reference books are updated for Circuit and Networks, Digital electronics, Electron devices. And some advance topic as removed as per meeting decision.
3. In Digital Electronics, 5th unit is completely changed and new syllabus created.
4. Object oriented programming and Data Structure is requested to include python language along with C++ implementation

SEMESTER IV

1. Analog Integrated Circuits and Its application is changed to Analog Integrated Circuits and Micro Controller and its applications changed to Microprocessor and Micro controllers.
2. For Microprocessor and Micro controllers and its laboratory course new syllabus is created
3. Some topics are changed to as per meeting decisions in Electronic Circuits, Electronic circuit laboratory, Electromagnetic fields

M.E - COMMUNICATION SYSTEMS

1. Applied Engineering Mathematics included with Random process and probability subject concepts
2. Optical Switching networks changed to optical networks and syllabus created as per decisions in meeting
3. Wireless communication Networks syllabus modified as per discussion in meeting.

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CHAIRMAN
Board of Studies
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EGS Pillay Engineering College (Autonomous)
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Nagore Post, Nagapattinam – 611 002, Tamil Nadu.



Academic Year 2019 - 2020

Date: 12.6.2020

Department of ECE

Board of Studies Meeting - Attendance

Sl.No.	Name	Category
1.	Dr.B.Padmanaban Professor & Head, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email.ID:dr.padmanaban83@gmail.com Mobile Number:9994163733	Chairman
2.	Dr. E.S.Gopi Associate Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli - 620015 E-mail:esgopi@nitt.edu	University Nominee
3.	Dr.N.B.Balamurugan Associate Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering Thiruparankundram, Madurai 625015 nbbalamurugan@tce.edu	External Subject Expert Members
4.	Dr.R.Ramesh Professor, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur. Email ID:ramesh@ece.sastra.edu Mobile Number : 9944062307	
5.	Mr.G.Balaji Software Arctech, Robert Bosh Ltd Coimbatore Email ID:raviram1645@gmail.com Mobile Number : 9047150446	Industry / Corporate Sector
6.	Mr.R.Sriram Programmer Analyst, Cognizant Technology Solutions, Chennai Email ID:raviram1645@gmail.com Mobile Number : 9047150446	
7.	Mr.V.Vijay Senior Testing Engineer (R&D),	

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[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
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Nagapattinam (Dt) Tamil Nadu.


[Signature]
CHAIRMAN
Board of Studies
Department of Electronic &
Communication Engineering
E.G.S Pillay Engineering College (Autonomous)
Nagapattinam.

Sl.No.	Name	Category
	Akas Medical Equipments Ltd, Chennai Email ID :vvijay.veeramani@gmail.com Mobile Number :9487845449	
8.	Dr.S.M.Ramesh Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email.ID: hodece@egspec.org Mobile Number: 9443505446	Internal Members
9.	Dr.A.Sundar Raj Associate Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: sundarraj198886@gmail.com Mobile:9865173406	
10.	Mrs.R.S.Koteeshwari Associate Professor , Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: eshwari.kote5@gmail.com Mobile:7904338947	Internal Members
11.	Mrs.S.Chitra Asst.Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: chithrapriyadharshini@gmail.com Mobile:9487485874	
12.	Mrs.V.Elavarasi Asst.Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: suthanmathi@gmail.com Mobile:9943397484	Internal Members
13.	Mr.M.Nuthal Srinivasan Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:nuthal4u@gmail.com Mobile:9597077499	
14.	Mr.D.Devarajan Asst. Professor	

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


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


CHAIRMAN
Board of Studies
**Department of Electronic &
Communication Engineering**
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

Sl.No.	Name	Category
	Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:devarajan@egspec.org Mobile:9894055342	Internal Members
15.	Dr. M. Irshad Ahmed Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:devarajan@egspec.org Mobile:9894055342	
16.	Mr. S. Jim Hawkinson Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: jimhawkinson@egspec.org Mobile: 7358591939	Internal Members
17.	Mr. S.K. Pragadesh Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: skpragadesh@gmail.com Mobile: 9843356131	

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CHAIRMAN
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.
Department of Electronics and Communication Engineering

Action Taken for BOS Meeting Minutes held on 12-06-2020

The Following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of 3rd & 4th semester of B.E. Electronics and Communication Engineering and 1st & 2nd Semester in M.E – Communication Systems was approved as presented.

List of syllabus revised Courses

Course Code	Course Name	Change Details	Revised
B.E. Electronics and Communication Engineering			
1901MA301	Engineering Mathematics – III (Transforms and Linear algebra)	Syllabus Revision	2 Module changed
1902CS306	Object Oriented Programming and Data Structures	Syllabus Revision	1 module changed
1902EC303	Digital Electronics	Syllabus Revision	2 Module changed

List of New Courses Introduced

Course Code	Course Name	Change Details
B.E. Electronics and Communication Engineering		
1902EC304	Biology for Engineers	New Course
1902EC301	Electron Devices	New Course
1902EC302	Circuits and Networks	New Course
1902EC351	Devices & Circuits Laboratory	New Course
1904GE351	Life Skills: Verbal ability	New Course
1901MCX02	Constitution of India	New Course
1901MA402	Probability Theory and Stochastic Processes	New Course
1902EC401	Electronics Circuits	New Course
1902EC402	Signals and Systems	New Course
1902EC403	Electromagnetic Fields	New Course
1902EC404	Analog Integrated Circuits	New Course
1902EC405	Microprocessors and Microcontrollers	New Course
1902EC451	Electronics and Integrated Circuits Laboratory	New Course
1902EC452	Microprocessors and Microcontrollers Laboratory	New Course
1904GE451	Life Skills: Verbal Reasoning	New Course
1901MCX01	Environmental Studies	New Course

ATTESTED

D.S. RAMABALAN, M.E., Ph.D.
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BOS Chairman - ECE

List of CBCS/Electives for / offered by B.E. – Electronics and Communication Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
PROFESSIONAL ELECTIVES – I									
1903EC001	Computer Architecture and Organization	3	0	0	3	40	60	100	PEC
1903EC002	Advanced Microcontrollers	3	0	0	3	40	60	100	PEC
1903EC003	Measurement and Instrumentation	3	0	0	3	40	60	100	PEC
1903EC004	Display Systems	3	0	0	3	40	60	100	PEC
1903EC005	Renewable Energy Engineering	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – II									
1903EC006	Radar and Navigation Aids	3	0	0	3	40	60	100	PEC
1903EC007	Automotive Electronics	3	0	0	3	40	60	100	PEC
1903EC008	Internet of Things	3	0	0	3	40	60	100	PEC
1903EC009	Biomedical Engineering	3	0	0	3	40	60	100	PEC
1903EC010	Information Coding Techniques	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – III									
1903EC011	Micro Electronics	3	0	0	3	40	60	100	PEC
1903EC012	Robotics	3	0	0	3	40	60	100	PEC
1903EC013	Network Security	3	0	0	3	40	60	100	PEC
1903EC014	Soft Computing	3	0	0	3	40	60	100	PEC
1903EC015	Advanced Digital Signal Processing	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – IV									
1903EC016	Machine Learning and Pattern recognition	3	0	0	3	40	60	100	PEC
1903EC017	Embedded System	3	0	0	3	40	60	100	PEC
1903EC018	Multimedia Communication	3	0	0	3	40	60	100	PEC
1903EC019	Wireless Communication	3	0	0	3	40	60	100	PEC
1903EC020	High Speed Switching Networks	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – V									
1903EC021	Nano Electronics	3	0	0	3	40	60	100	PEC
1903EC022	Opto Electronic Devices	3	0	0	3	40	60	100	PEC
1903EC023	Speech Processing	3	0	0	3	40	60	100	PEC
1903EC024	Microwave Integrated Circuits	3	0	0	3	40	60	100	PEC
1903EC025	Satellite Communication	3	0	0	3	40	60	100	PEC
HSS Elective - I									
1901MGX01	Total Quality Management	3	0	0	3	40	60	100	PEC
1901MGX02	Project Management and Finance	3	0	0	3	40	60	100	PEC
1901MGX03	Operations Research	3	0	0	3	40	60	100	PEC
1901MGX04	Principles of Management	3	0	0	3	40	60	100	PEC
HSS Elective - II									
1901HS001	Innovation & Entrepreneurship fundamentals	3	0	0	3	40	60	100	PEC
1901HS002	Intellectual Property Rights for Engineers	3	0	0	3	40	60	100	PEC
1901HS003	Startup Entrepreneurship	3	0	0	3	40	60	100	PEC
1901HS004	Business Model Innovation	3	0	0	3	40	60	100	PEC
ONE CREDIT COURSES									
1904EC001	Electromagnetic Interference and Compatibility	1	0	0	1	40	60	100	EEC
1904EC002	Digital System Design and Testing	1	0	0	1	40	60	100	EEC
1904EC003	Optical Networks	1	0	0	1	40	60	100	EEC
1904EC004	RF MEMS	1	0	0	1	40	60	100	EEC
1904EC005	Digital Switching and Transmission	1	0	0	1	40	60	100	EEC
1904EC006	ARM Processors	1	0	0	1	40	60	100	EEC
1904EC007	Mobile Computing	1	0	0	1	40	60	100	EEC

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 PRINCIPAL

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BOS Chairman - ECE

B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
 Regulations 2019 Approved in Board of Studies Meeting held on 12-06-2020

1904EC008	R Statistical Analysis	1	0	0	1	40	60	100	EEC
1904EC009	Python for Everybody	1	0	0	1	40	60	100	EEC
1904EC010	Introduction to HDL	1	0	0	1	40	60	100	EEC

(OPEN ELECTIVES) – ODD Semester

The courses listed below are offered by the Department of Electronics and Communication Engineering for students of other Departments.

1903EC017	Embedded Systems	3	0	0	3	40	60	100	OEC
1903EC007	Automotive Electronics	3	0	0	3	40	60	100	OEC
1903EC026	Mobile Communication	3	0	0	3	40	60	100	OEC
1903EC004	Display systems	3	0	0	3	40	60	100	OEC
1903EC027	Analog and Digital Communication	3	0	0	3	40	60	100	OEC

(OPEN ELECTIVES) – Even Semester

The courses listed below are offered by the Department of Electronics and Communication Engineering for students of other Departments.

1903EC028	Medical Electronics	3	0	0	3	40	60	100	OEC
1903EC029	High Speed Networks	3	0	0	3	40	60	100	OEC
1903EC030	Generations of Communication Technology	3	0	0	3	40	60	100	OEC
1903EC031	Optical Networks	3	0	0	3	40	60	100	OEC
1903EC025	Satellite Communication	3	0	0	3	40	60	100	OEC



HEAD OF THE DEPARTMENT
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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering
Meeting No.	05
Date & Time	09.02.2021 & 10.30 A.M to 11.30 AM
Venue	Online Mode - Google Meet

1. Chairman / BoS welcomed all members for the 5th meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS review the contents of 4th BOS meeting.
4. Chairman / BoS briefed the members about the Agenda.

- To finalize the curriculum and syllabi of 5th, 6th, 7th and 8th Semester in B.E - Electronics and Communication Engineering
- Any other matters.

5. The following are the suggestions given by the members of Board of Studies in curriculum.

- At least one Course outcome of the course may be in higher order (Bloom Taxonomy Level- Apply, Analyze)
- Update latest reference book for the courses.
- Suggested to include Programming concepts in pattern recognition, Deep learning, Machine learning and database management papers.
- Python and Java is very much needed in current scenario for placements and employment enhancement so it should be included in syllabus.

B.E Electronics and Communication Engineering

V - Semester:

1. Analog Communication and Digital Communication could be in the different semester.
2. Digital Signal Processors may be removed from the DSP course and multirate signal processing may be included.
3. Introduction to estimation and detection theory may be included in the Digital and/or Analog communication course.
4. Digital Signal Processors may be included along with Advanced Microprocessors and Microcontrollers course.

VI - Semester:

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VLSI theory and Lab may be shifted to V Semester.

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Nagapattinam.

VII –Semester:


1. Mini Project may be in the semester 7itself.
2. Optical communication and networks reference book may be in latestversion.

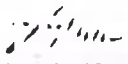
VIII –Semester:

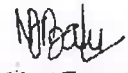
1. In Wireless Communication important topics like coherent time, coherent frequency, doppler spread, doppler shift, MIMO, NOMA, Full duplex communication may be added.

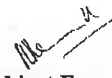
Following electives may be introduced.

1. Digital speechprocessing
2. Pattern recognition and Computationalintelligence
3. Machine intelligence and Deep learning
4. Digital signal processing for medical imaging
5. Digital signal processing for wireless communication

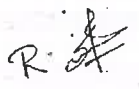

BOS-Chairman
(Dr. B. Padmanaban
Prof & Head/ECE/
EGSPEEC)



University Nominee
(Dr. E. S. Gopi, ASP/ECE
NIT-Trichy)



Subject Expert 1
(Dr. N. B. Balamurugan
ASP/ECE,
TCE, Madurai)


Subject Expert 2
(Dr. R. Ramesh,
Prof-EEE
SASTRA, Tanjore)


Industrial Expert
(Ms. Aswitha
QAE-Navis India
Chennai)


Alumni
(Mr. R. Sriram,
Cloud Admin Support
Accenture, Chennai)


Senior Faculty 1
(Dr. A. Sundar Raj,
ASP/ECE/EGSPEEC)


Senior Faculty 2
(Dr. D. Devarajan,
AP/ECE/EGSPEEC)

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Nagore Post, Nagapattinam – 611 002, Tamil Nadu.



Academic Year 2020 - 2021 Date: 09.2.2021

Department of ECE

Board of Studies Meeting - Attendance –(Online Mode)

Sl.No.	Name	Category
1.	Dr.B.Padmanaban Professor & Head, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email.ID: hodece@egspec.org Mobile Number: 9994163733	Chairman
2.	Dr. E.S.Gopi Associate Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli -620015 E-mail:esgopi@nitt.edu	University Nominee
3.	Dr.N.B.Balamurugan Associate Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering Thiruparankundram, Madurai 625015 nbbalamurugan@tce.edu	External Subject Expert Members
4.	Dr.R.Ramesh Professor, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur. Email ID:ramesh@ece.sastra.edu Mobile Number : 9944062307	
5.	Ms. R. Aswitha Associate Quality Assurance Engineer, NAVIS INDIA Technologies PVT LTD Chennai Email ID: aswitharaja@gmail.com Mobile Number : 6380731155	Industry / Corporate Sector
6.	Mr.R.Sriram Cloud Admin Support Engineer, ACCENTURE, Chennai Email ID:raviram1645@gmail.com Mobile Number : 9047150446	Alumni
	Dr. A. Rajaram, Professor, Department of Electronics and Communication Engineering, E.G.S. Pillay Engineering College, Nagapattinam – 611 002 Email id: gct143@gmail.com Mobile Number: 9942035947	

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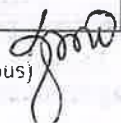
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	Associate Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: sundarraj198886@gmail.com Mobile:9865173406	Internal Members
9.	Dr. M. Irshad Ahmed Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:devarajan@egspec.org Mobile:9894055342	Internal Members
10.	Dr. D.Devarajan Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:devarajan@egspec.org Mobile:9894055342	
11.	Mrs.R.S.Koteeshwari Associate Professor , Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: eshwari.kote5@gmail.com Mobile:7904338947	Internal Members
12.	Mrs. V.Elavarasi Asst.Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: suthanmathi@gmail.com Mobile:9943397484	
13.	Mr. M.Nuthal Srinivasan Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:nuthal4u@gmail.com Mobile:9597077499	Internal Members
14.	Mrs. S.Chitra Asst.Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: chithrapriyadharshini@gmail.com Mobile:9487485874	
15.	Mr. S. Jim Hawkinson Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:jimhawkinson@egspec.org Mobile:97358591939	

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 Nagapattinam: (Dt) Tamil Nadu.

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16.	Mr. S.K. Pragadesh Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: skpragadesh@gmail.com Mobile: 9843356131	
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Academic Year 2020 - 2021 Date: 09.2.2021

Department of ECE

BOS Meeting – Account Details for BOS External Members

Sl.No.	Name of the Members	Category	Account Details
1.	Dr. E.S.Gopi Associate Professor Department of Electronics and Communication Engineering National Institute of Technology Tiruchirappalli -620015 E-mail:esgopi@nitt.edu	University Nominee	Account Number: 30046143771 IFSC Code: SBIN0001617 Bank Name:State Bank of India Branch: NIT, Trichy.
2.	Dr.N.B.Balamurugan Associate Professor Department of Electronics and Communication Engineering Thiagarajar College of Engineering Thiruparankundram, Madurai 625015 nbbalamurugan@tce.edu	External Subject Expert Members	Account Number: 601301151789 IFSC Code: ICIC0000563 Bank Name: ICICI Bank Branch: TCE, Madurai.
3.	Dr.R.Ramesh Associate Professor School of Electrical and Electronics Engineering SASTRA University Thanjavur -613401 Email ID:ramesh@ece.sastra.edu Mobile Number : 9944062307		Account Number : 500101010926387 IFSC Code: CIUB0000528 Bank Name: City Union Bank Branch:Thirumalaisamudram, Thanjavur
4.	Ms. R. Aswitha Associate Quality Assurance Engineer, NAVIS INDIA Technologies PVT LTD, Chennai Email ID: aswitharaja@gmail.com Mobile Number : 6380731155	Industry / Corporate Sector	Account Number : 052601004433 IFSC Code: ICIC0000526 Bank Name: ICICIBank Branch:Tiruvarur
5.	Mr.R.Sriram Programmer Analyst Cognizant Technology Solutions Chennai - 600123 Email ID:raviram1645@gmail.com Mobile Number : 9047150446	Alumni	Account Number : 916010038503949 IFSC Code: UTIB0001119 Bank Name: Axis Bank Branch:Medavakkam, Chennai.

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REC HOD ECE is presenting JIM HAWKINSON and 1 more 11:11 AM You

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Department of Electronics and Communication Engineering

Hearty Welcome to Board of Studies Members
 09.02.2021 (Tuesday)

Dr. B. PADMANABAN
 Professor & Head/ECE
 BOS CHAIRMAN/ECE

HOD ECE HOD ECE NUTHAL SRINIV...

GOPI E S bala murugan CHITRAL S ECE

Dr. RAMSIL R Siram Ravi Aswitha Raja

EGSPEC-ECE Department-FIFTH BOS M... Raise hand Turn on captions HOD ECE is presenting

11:11 09-02-2021

and 1 more

1 Digital speech processing
 2 Pattern recognition and Computational intelligence
 3 Machine intelligence and Deep learning
 4 Digital signal processing for medical imaging
 5 Digital signal processing for wireless communication

Following reference books authored by myself may be included in the relevant courses I found suitable

(1) Digital signal processing for medical imaging using Matlab, Springer
 (2) Digital signal processing for wireless communication, Springer
 (3) Multidisciplinary digital signal processing using Matlab, Springer
 (4) Pattern recognition and Computational intelligence using Matlab, Springer publications
 (5) Digital speech processing using Matlab, Springer publications

1

HOD ECE HOD ECE GOPI E S

NUTHAL SRINIV... bala murugan CHITRAL S ECE


Dr. RAMESH R Siram Ravi Aswitha Raja

EGSPEC-ECE Department-FIFTH BOS M... Raise hand Turn on captions HOD ECE is presenting

11:15 09-02-2021

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REC HOD ECE is presenting NUTHAL SRINIVASAN Muthuk... and 1 more 10:59 AM

Course Code	Course Name	L	T	P	C	Maximum Marks		
						CA	ES	Total
Theory Course								
	Wireless Communication	3	0	0	3	40	60	100
	Professional Elective - IV	3	0	0	3	40	60	100
	Professional Elective - V	3	0	0	3	40	60	100
Laboratory Course								
	Project Work	0	0	18	9	50	50	100
	Total	9	0	18	18	170	230	400

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10:59 09-02-2021

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 Department of Electronics and Communication Engineering

Hearty Welcome to Board of Studies Members
 09.02.2021 (Tuesday)

Dr. B. PADMANABAN
 Professor & Head/ECE
 BOS CHAIRMAN/ECE

EGSPEC-ECE Department-FIFTH BOS M...

10:28 09-02-2021

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[Signature]

Dr. S. RAMANAN, M.E., Ph.D.
 PRINCIPAL
 E.G.S. Pillay Engineering College,
 Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu

[Signature]

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HOD ECE is presenting 10:32 AM


PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

After successful completion of the programme, Graduates will be able to

PEO 1: Have successful professional career in electronics and communication engineering and its related disciplines or to acquire an entrepreneurship or pursue higher education.

PEO 2: Provide the knowledge of Electronics and communication engineering and find practical solution to the problems and for doing research.

PEO 3: Complement the class room teaching with seminars, industrial visits, inplant training and industrial projects to develop the communication skill, lifelong learning skills, teamwork capability, ethics, moral values and out of box.



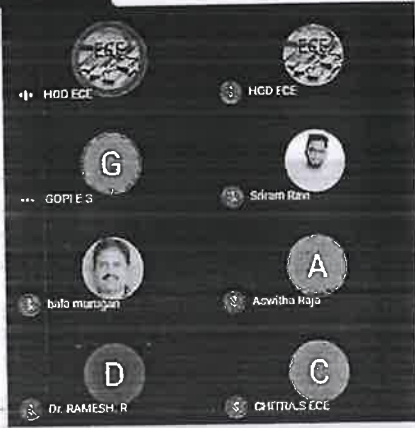
PROGRAMME SPECIFIC OUTCOMES (PSO)

After the successful completion, the graduates will be able to

PSO1: Have skills and knowledge to design, develop and implement Microcontroller applications and Embedded systems.

PSO2: Design systems to solve contemporary issues of modern communication systems, High Speed Networking and RF applications.

ELECTRONICS AND COMMUNICATION ENGINEERING



EGSPEC-ECE Department-FIFTH BOS M...

10:32 09-02-2021

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HOD ECE is presenting 10:33 AM

LAST BOARD OF STUDIES, MEETING MINUTES

- Chairman / BoS welcomed all members for the 4th meeting of Board of Studies
- Chairman / BoS introduced the members.
- Chairman / BoS review the contents of 3rd BOS meeting.
- Chairman / BoS briefed the members about the Agenda
 - To finalize the curriculum and syllabi of 3rd & 4th Semester in B. E - Electronics and Communication Engineering and 1st & 2nd Semester in M. E - Communication Systems, Any other matters.
- The following are the suggestions given by the members of Board of Studies in curriculum.
 - Open elective: 5 subjects per each module should include.
 - 6th semester needs one programming paper if possible, in python or Java.
 - Suggested to include Programming concepts in internet of things; Soft Computing and Embedded Systems papers.
 - Python and Java is very much needed in current scenario (software development methodology) so it should be included in syllabus.

ELECTRONICS AND COMMUNICATION ENGINEERING



EGSPEC-ECE Department-FIFTH BOS M...

10:33 09-02-2021

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



**CHAIRMAN
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HOD ECE is presenting

EGSPEE-ECE Department-FIFTH BOS M...

Chapter 1
General Characteristics & Structure
of
Quality Assurance & Review

A. Definition of Quality

Quality	Quality Assurance	Quality Control
Quality is the degree to which a product or service meets or exceeds the expectations of the customer.	Quality Assurance is the systematic and planned activities that ensure the quality requirements are fulfilled.	Quality Control is the operational techniques and activities for the fulfillment of the quality requirements.

B. Scope of QA

C. Structure of Quality Assurance Program

Sl. No.	Component	Number of Hours (of Contact Time)
1	Introduction to Quality Assurance	10
2	Quality Assurance in the Design and Development Process	10
3	Quality Assurance in the Production Process	10
4	Quality Assurance in the Service Process	10
5	Quality Assurance in the Support Process	10
6	Quality Assurance in the Procurement Process	10
7	Quality Assurance in the Distribution Process	10
8	Quality Assurance in the Maintenance Process	10
9	Quality Assurance in the Disposal Process	10
10	Quality Assurance in the Recycling Process	10
11	Quality Assurance in the Environmental Process	10
12	Quality Assurance in the Safety Process	10
13	Quality Assurance in the Security Process	10
14	Quality Assurance in the Health Process	10
15	Quality Assurance in the Welfare Process	10
16	Quality Assurance in the Social Process	10
17	Quality Assurance in the Cultural Process	10
18	Quality Assurance in the Religious Process	10
19	Quality Assurance in the Philosophical Process	10
20	Quality Assurance in the Aesthetic Process	10
21	Quality Assurance in the Ethical Process	10
22	Quality Assurance in the Legal Process	10
23	Quality Assurance in the Political Process	10
24	Quality Assurance in the Economic Process	10
25	Quality Assurance in the Historical Process	10
26	Quality Assurance in the Geographical Process	10
27	Quality Assurance in the Biological Process	10
28	Quality Assurance in the Chemical Process	10
29	Quality Assurance in the Physical Process	10
30	Quality Assurance in the Mathematical Process	10
31	Quality Assurance in the Scientific Process	10
32	Quality Assurance in the Technological Process	10
33	Quality Assurance in the Industrial Process	10
34	Quality Assurance in the Commercial Process	10
35	Quality Assurance in the Financial Process	10
36	Quality Assurance in the Managerial Process	10
37	Quality Assurance in the Administrative Process	10
38	Quality Assurance in the Legal Process	10
39	Quality Assurance in the Political Process	10
40	Quality Assurance in the Economic Process	10
41	Quality Assurance in the Historical Process	10
42	Quality Assurance in the Geographical Process	10
43	Quality Assurance in the Biological Process	10
44	Quality Assurance in the Chemical Process	10
45	Quality Assurance in the Physical Process	10
46	Quality Assurance in the Mathematical Process	10
47	Quality Assurance in the Scientific Process	10
48	Quality Assurance in the Technological Process	10
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56	Quality Assurance in the Economic Process	10
57	Quality Assurance in the Historical Process	10
58	Quality Assurance in the Geographical Process	10
59	Quality Assurance in the Biological Process	10
60	Quality Assurance in the Chemical Process	10
61	Quality Assurance in the Physical Process	10
62	Quality Assurance in the Mathematical Process	10
63	Quality Assurance in the Scientific Process	10
64	Quality Assurance in the Technological Process	10
65	Quality Assurance in the Industrial Process	10
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74	Quality Assurance in the Geographical Process	10
75	Quality Assurance in the Biological Process	10
76	Quality Assurance in the Chemical Process	10
77	Quality Assurance in the Physical Process	10
78	Quality Assurance in the Mathematical Process	10
79	Quality Assurance in the Scientific Process	10
80	Quality Assurance in the Technological Process	10
81	Quality Assurance in the Industrial Process	10
82	Quality Assurance in the Commercial Process	10
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91	Quality Assurance in the Biological Process	10
92	Quality Assurance in the Chemical Process	10
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94	Quality Assurance in the Mathematical Process	10
95	Quality Assurance in the Scientific Process	10
96	Quality Assurance in the Technological Process	10
97	Quality Assurance in the Industrial Process	10
98	Quality Assurance in the Commercial Process	10
99	Quality Assurance in the Financial Process	10
100	Quality Assurance in the Managerial Process	10

People (17)
Add people

10:36
09-02-2021

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EGSPEE-ECE Department-FIFTH BOS M...

B.E. ELECTRONICS AND COMMUNICATION ENGINEERING
Third Year - 1st Semester

Sl. No.	Course Name	L	T	P	TH	SA	TA	Total
Theory Exams								
1	Math & Computation	2	1	4	1	1	1	10
2	Basic Electronics	2	1	4	1	1	1	10
3	Basic Communication Systems	2	1	4	1	1	1	10
4	Computer Systems	2	1	4	1	1	1	10
5	Control Systems	2	1	4	1	1	1	10
6	Electromagnetic Waves	2	1	4	1	1	1	10
7	Engineering Mathematics - I	2	1	4	1	1	1	10
Laboratory Exams								
8	Math & Computation	2	1	4	1	1	1	10
9	Basic Electronics	2	1	4	1	1	1	10
10	Basic Communication Systems	2	1	4	1	1	1	10
11	Computer Systems	2	1	4	1	1	1	10
12	Control Systems	2	1	4	1	1	1	10
13	Electromagnetic Waves	2	1	4	1	1	1	10
14	Engineering Mathematics - I	2	1	4	1	1	1	10
15	Math & Computation	2	1	4	1	1	1	10
16	Basic Electronics	2	1	4	1	1	1	10
17	Basic Communication Systems	2	1	4	1	1	1	10
18	Computer Systems	2	1	4	1	1	1	10
19	Control Systems	2	1	4	1	1	1	10
20	Electromagnetic Waves	2	1	4	1	1	1	10
21	Engineering Mathematics - I	2	1	4	1	1	1	10
22	Math & Computation	2	1	4	1	1	1	10
23	Basic Electronics	2	1	4	1	1	1	10
24	Basic Communication Systems	2	1	4	1	1	1	10
25	Computer Systems	2	1	4	1	1	1	10
26	Control Systems	2	1	4	1	1	1	10
27	Electromagnetic Waves	2	1	4	1	1	1	10
28	Engineering Mathematics - I	2	1	4	1	1	1	10
29	Math & Computation	2	1	4	1	1	1	10
30	Basic Electronics	2	1	4	1	1	1	10
31	Basic Communication Systems	2	1	4	1	1	1	10
32	Computer Systems	2	1	4	1	1	1	10
33	Control Systems	2	1	4	1	1	1	10
34	Electromagnetic Waves	2	1	4	1	1	1	10
35	Engineering Mathematics - I	2	1	4	1	1	1	10
36	Math & Computation	2	1	4	1	1	1	10
37	Basic Electronics	2	1	4	1	1	1	10
38	Basic Communication Systems	2	1	4	1	1	1	10
39	Computer Systems	2	1	4	1	1	1	10
40	Control Systems	2	1	4	1	1	1	10
41	Electromagnetic Waves	2	1	4	1	1	1	10
42	Engineering Mathematics - I	2	1	4	1	1	1	10
43	Math & Computation	2	1	4	1	1	1	10
44	Basic Electronics	2	1	4	1	1	1	10
45	Basic Communication Systems	2	1	4	1	1	1	10
46	Computer Systems	2	1	4	1	1	1	10
47	Control Systems	2	1	4	1	1	1	10
48	Electromagnetic Waves	2	1	4	1	1	1	10
49	Engineering Mathematics - I	2	1	4	1	1	1	10
50	Math & Computation	2	1	4	1	1	1	10
51	Basic Electronics	2	1	4	1	1	1	10
52	Basic Communication Systems	2	1	4	1	1	1	10
53	Computer Systems	2	1	4	1	1	1	10
54	Control Systems	2	1	4	1	1	1	10
55	Electromagnetic Waves	2	1	4	1	1	1	10
56	Engineering Mathematics - I	2	1	4	1	1	1	10
57	Math & Computation	2	1	4	1	1	1	10
58	Basic Electronics	2	1	4	1	1	1	10
59	Basic Communication Systems	2	1	4	1	1	1	10
60	Computer Systems	2	1	4	1	1	1	10
61	Control Systems	2	1	4	1	1	1	10
62	Electromagnetic Waves	2	1	4	1	1	1	10
63	Engineering Mathematics - I	2	1	4	1	1	1	10
64	Math & Computation	2	1	4	1	1	1	10
65	Basic Electronics	2	1	4	1	1	1	10
66	Basic Communication Systems	2	1	4	1	1	1	10
67	Computer Systems	2	1	4	1	1	1	10
68	Control Systems	2	1	4	1	1	1	10
69	Electromagnetic Waves	2	1	4	1	1	1	10
70	Engineering Mathematics - I	2	1	4	1	1	1	10
71	Math & Computation	2	1	4	1	1	1	10
72	Basic Electronics	2	1	4	1	1	1	10
73	Basic Communication Systems	2	1	4	1	1	1	10
74	Computer Systems	2	1	4	1	1	1	10
75	Control Systems	2	1	4	1	1	1	10
76	Electromagnetic Waves	2	1	4	1	1	1	10
77	Engineering Mathematics - I	2	1	4	1	1	1	10
78	Math & Computation	2	1	4	1	1	1	10
79	Basic Electronics	2	1	4	1	1	1	10
80	Basic Communication Systems	2	1	4	1	1	1	10
81	Computer Systems	2	1	4	1	1	1	10
82	Control Systems	2	1	4	1	1	1	10
83	Electromagnetic Waves	2	1	4	1	1	1	10
84	Engineering Mathematics - I	2	1	4	1	1	1	10
85	Math & Computation	2	1	4	1	1	1	10
86	Basic Electronics	2	1	4	1	1	1	10
87	Basic Communication Systems	2	1	4	1	1	1	10
88	Computer Systems	2	1	4	1	1	1	10
89	Control Systems	2	1	4	1	1	1	10
90	Electromagnetic Waves	2	1	4	1	1	1	10
91	Engineering Mathematics - I	2	1	4	1	1	1	10
92	Math & Computation	2	1	4	1	1	1	10
93	Basic Electronics	2	1	4	1	1	1	10
94	Basic Communication Systems	2	1	4	1	1	1	10
95	Computer Systems	2	1	4	1	1	1	10
96	Control Systems	2	1	4	1	1	1	10
97	Electromagnetic Waves	2	1	4	1	1	1	10
98	Engineering Mathematics - I	2	1	4	1	1	1	10
99	Math & Computation	2	1	4	1	1	1	10
100	Basic Electronics	2	1	4	1	1	1	10

People (17)
Add people

10:37 AM
09-02-2021

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

[Signature]
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Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam.

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HOD ECE is presenting

EGSPEC-ECE Department-FIFTH...

People (13)

Chat

Add people

IN CALL

- Deva Rajan (100)
- Priyanka Saha
- bars mulligan
- CHITRA S ECE
- Dr. RAMESH R
- GOPIES

LABORATORY COURSES

ANALOG AND DIGITAL COMMUNICATION LAB

	L	T	P	T
	0	0	4	2

Course Objectives:

1. Understand the theory of analog and digital communication.
2. Study the different types of modulators.
3. To know the steps involved in the analysis of analog communication system.

List of Experiments:

1. Amplitude Modulation.

EGSPEC-ECE Department-FIFTH BOS M...

EGSPEC-ECE Department-FIFTH BOS M... | Voice hand | Turn on captions | HOD ECE is presenting

10:42 09-02-2021

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Good

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Department of Electronic &
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Nagapattinam.



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(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.
Department of Electronics and Communication Engineering

Action Taken for BOS Meeting Minutes held on 09-02-2021

The Following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of 5th to 8th semester of B.E. Electronics and Communication Engineering was approved as presented.

List of syllabus revised Courses

Course Code	Course Name	Change Details	Revised
B.E. Electronics and Communication Engineering			
1902EC502	Digital Signal Processing	Syllabus Revision	2 Module and some content changed
1902EC503	Transmission Lines and Wave guides	Syllabus Revision	2 Module and some content changed
1902EC504	Control Systems	Syllabus Revision	2 Module and some content changed
1902EC505	Computer Networks	Syllabus Revision	2 Module and some content changed
1902EC602	VLSI Design	Syllabus Revision	2 Module and some content changed

List of New Courses Introduced

Course Code	Course Name	Change Details
B.E. Electronics and Communication Engineering		
1902EC501	Analog Communication	New Course
	Professional Elective - I	New Course
1902EC551	Digital Signal Processing Laboratory	New Course
1902EC552	Computer Networks Laboratory	New Course
1901MCX03	Essence of Indian Traditional Knowledge	New Course
1904GE551	Life Skills: Aptitude I	New Course
1902EC601	Antenna and Waveguide Propagation	New Course
1902EC603	Digital Communication	New Course
	HSS Elective I	New Course
	Open Elective I	New Course
	Professional Elective – II	New Course
1902EC651	VLSI Design Laboratory	New Course
1902EC652	Analog & Digital Communication Laboratory	New Course
	Industrial Visit Presentation	New Course
1904GE651	Life Skills: Aptitude II & GD	New Course

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BOS Chairman - ECE

List of CBCS/Electives for / offered by B.E. – Electronics and Communication Engineering

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
PROFESSIONAL ELECTIVES – I									
1903EC001	Computer Architecture and Organization	3	0	0	3	40	60	100	PEC
1903EC002	Advanced Microcontrollers	3	0	0	3	40	60	100	PEC
1903EC003	Measurement and Instrumentation	3	0	0	3	40	60	100	PEC
1903EC004	Display Systems	3	0	0	3	40	60	100	PEC
1903EC005	Renewable Energy Engineering	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – II									
1903EC006	Radar and Navigation Aids	3	0	0	3	40	60	100	PEC
1903EC007	Automotive Electronics	3	0	0	3	40	60	100	PEC
1903EC008	Internet of Things	3	0	0	3	40	60	100	PEC
1903EC009	Biomedical Engineering	3	0	0	3	40	60	100	PEC
1903EC010	Information Coding Techniques	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – III									
1903EC011	Micro Electronics	3	0	0	3	40	60	100	PEC
1903EC012	Robotics	3	0	0	3	40	60	100	PEC
1903EC013	Network Security	3	0	0	3	40	60	100	PEC
1903EC014	Soft Computing	3	0	0	3	40	60	100	PEC
1903EC015	Advanced Digital Signal Processing	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – IV									
1903EC016	Machine Learning and Pattern recognition	3	0	0	3	40	60	100	PEC
1903EC017	Embedded System	3	0	0	3	40	60	100	PEC
1903EC018	Multimedia Communication	3	0	0	3	40	60	100	PEC
1903EC019	Wireless Communication	3	0	0	3	40	60	100	PEC
1903EC020	High Speed Switching Networks	3	0	0	3	40	60	100	PEC
PROFESSIONAL ELECTIVES – V									
1903EC021	Nano Electronics	3	0	0	3	40	60	100	PEC
1903EC022	Opto Electronic Devices	3	0	0	3	40	60	100	PEC
1903EC023	Speech Processing	3	0	0	3	40	60	100	PEC
1903EC024	Microwave Integrated Circuits	3	0	0	3	40	60	100	PEC
1903EC025	Satellite Communication	3	0	0	3	40	60	100	PEC
HSS Elective - I									
1901MGX01	Total Quality Management	3	0	0	3	40	60	100	PEC
1901MGX02	Project Management and Finance	3	0	0	3	40	60	100	PEC
1901MGX03	Operations Research	3	0	0	3	40	60	100	PEC
1901MGX04	Principles of Management	3	0	0	3	40	60	100	PEC
HSS Elective - II									
1901HS001	Innovation & Entrepreneurship fundamentals	3	0	0	3	40	60	100	PEC
1901HS002	Intellectual Property Rights for Engineers	3	0	0	3	40	60	100	PEC
1901HS003	Startup Entrepreneurship	3	0	0	3	40	60	100	PEC
1901HS004	Business Model Innovation	3	0	0	3	40	60	100	PEC
ONE CREDIT COURSES									
1904EC001	Electromagnetic Interference and Compatibility	1	0	0	1	40	60	100	EEC
1904EC002	Digital System Design and Testing	1	0	0	1	40	60	100	EEC
1904EC003	Optical Networks	1	0	0	1	40	60	100	EEC
1904EC004	RF MEMS	1	0	0	1	40	60	100	EEC
1904EC005	Digital Switching and Transmission	1	0	0	1	40	60	100	EEC

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B.E.-Electronics and Communication Engineering | E.G.S. Pillay Engineering College (Autonomous)
 | Regulations 2019 Approved in Board of Studies Meeting held on 09-02-2021

1904EC006	ARM Processors	1	0	0	1	40	60	100	EEC
1904EC007	Mobile Computing	1	0	0	1	40	60	100	EEC
1904EC008	R Statistical Analysis	1	0	0	1	40	60	100	EEC
1904EC009	Python for Everybody	1	0	0	1	40	60	100	EEC
1904EC010	Introduction to HDL	1	0	0	1	40	60	100	EEC

(OPEN ELECTIVES) – ODD Semester

The courses listed below are offered by the Department of Electronics and Communication Engineering for students of other Departments.

1903EC017	Embedded Systems	3	0	0	3	40	60	100	OEC
1903EC007	Automotive Electronics	3	0	0	3	40	60	100	OEC
1903EC026	Mobile Communication	3	0	0	3	40	60	100	OEC
1903EC004	Display systems	3	0	0	3	40	60	100	OEC
1903EC027	Analog and Digital Communication	3	0	0	3	40	60	100	OEC

(OPEN ELECTIVES) – Even Semester

The courses listed below are offered by the Department of Electronics and Communication Engineering for students of other Departments.

1903EC028	Medical Electronics	3	0	0	3	40	60	100	OEC
1903EC029	High Speed Networks	3	0	0	3	40	60	100	OEC
1903EC030	Generations of Communication Technology	3	0	0	3	40	60	100	OEC
1903EC031	Optical Networks	3	0	0	3	40	60	100	OEC
1903EC025	Satellite Communication	3	0	0	3	40	60	100	OEC



HEAD OF THE DEPARTMENT
 Dept. of Electronics & Communication Engg.
 E.G.S Pillay Engineering College,
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Minutes of Board of Studies (BoS) Meeting


Name of the Department	Electronics and Communication Engineering
Name of the Programmes	B.E. Electronics and Communication Engineering M.E. Communication Systems
Meeting No.	06
Date & Time	09.07.2021 & 03.15 P.M.
Venue	Google Meet (Online)

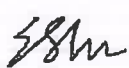
1. Chairman / BoS welcomed all members for the 6th meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS review the contents of 5th BOS meeting.
4. Chairman / BoS briefed the members about the Agenda.

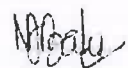
- To finalize the curriculum and syllabi of B.E- ECE and M.E.Communication systems.
- Vision, Mission, PEOs and PSOs are discussed and finalized.
- Any other matters.


5. The following are the suggestions given by the External expert members of Board of Studies:
For M.E.Communication System

- Category of Elective to be included in Curriculum.
- If Audit course reflected in mark sheet means, two levels of result is required, to know whether they completed or not. Otherwise it is not necessary.
- Mini project is not mandatory in Second semester. Otherwise, it should be in the level upto preparing literature survey.
- In Semester 1, Probability stochastic process topic is to be included in Mathematics course.
- Pattern recognition and VLSI based subject may be included as one of the elective course.
- In communication system lab, experiments to be done in both mode, i.e. simulation and Hardware.
- In second semester instead of mini project, laboratory course may be included like Communication system modelling and simulation.

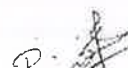

BOS-Chairman
(Dr.B.Padmanaban
Prof & Head/ECE/
EGSPEC)



University Nominee
(Dr.E.S.Gopi, ASP/ECE
NIT-Trichy)



Subject Expert 1
(Dr.N.B.Balamurugan
ASP/ECE,
TCE, Madurai)


Subject Expert 2
(Dr.R. Ramesh,
Prof-EEE
SASTRA, Tanjore)


Industrial Expert
(Mr.S.Ajith selva
vigneswaran, Senior
engineer, National
Technology center for
ports waterways
, IIT Madras, Chennai)


Alumni
(Mr. R.Sriram,
Cloud Admin Support
Accenture, Chennai)


Senior Faculty 1
(Dr. A. Sundar Raj,
ASP/ECE/EGSPEC)


Senior Faculty 2
(Dr. D. Devarajan,
AP/ECE/EGSPEC)

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Academic Year 2020 - 2021 Date: 09.07.2021

Department of ECE

Board of Studies Meeting - Attendance – (Online Mode)

Sl.No.	Name	Category
1.	Dr.B.Padmanaban Professor & Head, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email.ID: hodece@egspec.org Mobile Number: 9994163733	Chairman
2.	Dr. E.S.Gopi Associate Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli -620015 E-mail:esgopi@nitt.edu	University Nominee
3.	Dr.N.B.Balamurugan Associate Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering Thiruparankundram, Madurai 625015 nbbalamurugan@tce.edu	External Subject Expert Members
4.	Dr.R.Ramesh Professor, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur. Email ID:ramesh@ece.sastra.edu Mobile Number : 9944062307	
5.	Mr.S.AjithSelvaVigneswaran, Senior engineer, National Technology center for ports waterways, IIT Madras, Chennai. Email ID:ajith@ntcpwc.iitm.ac.in Mobile Number : 8870934327	Industry / Corporate Sector
6.	Mr.R.Sriram Programmer Analyst, Cognizant Technology Solutions, Chennai Email ID:raviram1645@gmail.com Mobile Number : 9047150446	Alumni
7.	Mr.V.Vijay Senior Testing Engineer (R&D), Akas Medical Equipments Ltd. Chennai	

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

CHAIRMAN

Board of Studies

**Department of Electronic &
Communication Engineering**

**E.G.S. Pillay Engineering College (Autonomous)
Nagapattinam.**

	Email ID :vvijay.veeramani@gmail.com Mobile Number :9487845449	
8.	Dr.A.Sundar Raj Associate Professor, Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: sundarraaj198886@gmail.com Mobile:9865173406	Internal Members
9.	Dr. M. Irshad Ahmed Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:devarajan@egspec.org Mobile:9894055342	
10.	Dr. D.Devarajan Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:devarajan@egspec.org Mobile:9894055342	
11.	Mrs.R.S.Koteeshwari Associate Professor , Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: eshwari.kote5@gmail.com Mobile:7904338947	Internal Members
12.	Mrs. V.Elavarasi Asst.Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: suthanmathi@gmail.com Mobile:9943397484	
13.	Mr. M.Nuthal Srinivasan Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:nuthal4u@gmail.com Mobile:9597077499	Internal Members
14.	Mrs. S.Chitra Asst.Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: chithrapriyadharshini@gmail.com Mobile:9487485874	

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

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Thethi, Nagore - 611 002.


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Handwritten signature

15.	Mr. S. Jim Hawkinson Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID:jimhawkinson@egspec.org, Mobile: 7358591939	Internal Members
16.	Mr. S.K. Pragadesh Asst. Professor Department of Electronics and Communication Engineering, E.G.S.Pillay Engineering College, Nagapattinam – 611002. Email ID: skpragadesh@gmail.com Mobile: 9843356131	


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Department of Electronic & Communication Engineering
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Nagapattinam.

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Academic Year 2020 - 2021

Date: 09.07.2021

Department of ECE

BOS Meeting – Account Details for BOS External Members

Sl.No.	Name of the Members	Category	Account Details
1.	Dr. E.S.Gopi Associate Professor Department of Electronics and Communication Engineering National Institute of Technology Tiruchirappalli - 620015 E-mail: esgopi@nitt.edu	University Nominee	Account Number: 30046143771 IFSC Code: SBIN0001617 Bank Name: State Bank of India Branch: NIT, Trichy.
2.	Dr.N.B.Balamurugan Associate Professor Department of Electronics and Communication Engineering Thiagarajar College of Engineering Thiruparankundram, Madurai 625015 nbbalamurugan@tce.edu	External Subject Expert Members	Account Number: 601301151789 IFSC Code: ICIC0000563 Bank Name: ICICI Bank Branch: TCE, Madurai.
3.	Dr.R.Ramesh Associate Professor School of Electrical and Electronics Engineering SASTRA University Thanjavur - 613401 Email ID: ramesh@ece.sastra.edu Mobile Number : 9944062307		Account Number : 500101010926387 IFSC Code: CIUB0000528 Bank Name: City Union Bank Branch: Thirumalaisamudram, Thanjavur
4.	Mr.S.Ajith Selva Vigneswaran , Senior engineer, National Technology center for ports waterways, IIT Madras, Chennai.600036 Email ID: ajith@ntcpwc.iitm.ac.in Mobile Number : 8870934327	Industry / Corporate Sector	Account Number : 881024886437 IFSC Code: DBSS0IN0811 Bank Name: DBS Bank Branch: Nariman Point, Mumbai
5.	Mr.R.Sriram Programmer Analyst Cognizant Technology Solutions Chennai - 600123 Email ID: raviram1645@gmail.com Mobile Number : 9047150446	Alumni	Account Number : 916010038503949 IFSC Code: UTIB0001119 Bank Name: Axis Bank Branch: Medavakkam, Chennai.

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CHAIRMAN

Board of Studies
Department of Electronic &
Communication Engineering
E.G.S. Pillay Engineering College (Autonomous)
Nagapattinam.

M.E. COMMUNICATION SYSTEMS

REGULATION - 2021

I TO IV SEMESTERS CURRICULAM AND SYLLABI

SEMESTER I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Applied Engineering Mathematics for Communication System	FC	3	1	0	4	4
2.		Advanced Digital Communication	PCC	3	0	0	3	3
3.		Program Elective – I	PEC	3	0	0	3	3
4.		Program Elective – II	PEC	3	0	0	3	3
5.		Research Methodology and IPR	RMC	3	0	0	3	3
6.		Audit Course – I	AC	2	0	0	2	0
PRACTICALS								
7.		Communication System Laboratory	PCC	0	0	4	4	2
8.		Communication Skill Laboratory	EEC	0	0	4	4	2
TOTAL				17	01	08	26	20

SEMESTER II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Wireless Communication Engineering	PCC	3	0	0	3	3
2.		Optical Switching and Networking	PCC	3	0	0	3	3
3.		High Speed Communication Networks	PCC	3	0	0	3	3
4.		Program Elective – III	PEC	3	0	0	3	3
5.		Program Elective – IV	PEC	3	0	0	3	3
6.		Audit Course – II	AC	2	0	0	2	0
PRACTICALS								
7.		Wireless Communication Networks Laboratory	PCC	0	0	4	4	2
8.		Mini Project with Seminar	EEC	0	0	4	4	2
TOTAL				17	00	08	25	19

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

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Nagapattinam (Dt) Tamil Nadu.**

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**Board of Studies
Department of Electronic &
Communication Engineering
EGS Pillay Engineering College (Autonomous)
Nagapattinam**

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Antenna Design and Analysis	PCC	3	0	0	3	3
2.		Program Elective – V	PEC	3	0	0	3	3
3.		Open Elective	OEC	3	0	0	3	3
PRACTICALS								
4.		RF System Design Laboratory	PCC	0	0	4	4	2
5.		Dissertation – I	EEC	0	0	20	20	10
TOTAL				09	00	24	30	21

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1.		Dissertation – II	EEC	0	0	32	32	16
TOTAL				00	00	32	32	16

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE - 76

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PROGRAM CORE COURSES (PCC)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1		Applied Engineering Mathematics for Communication System	PCC	3	1	0	4	4
2		Advanced Digital Communication	PCC	3	0	0	3	3
3		Communication System Laboratory	PCC	0	0	4	4	2
4		Wireless Communication Engineering	PCC	0	0	4	4	2
5		Optical Switching and Networking	PCC	3	0	0	3	3
6		High Speed Communication Networks	PCC	3	0	0	3	3
7		Mini Project with Seminar	PCC	3	0	0	3	3
8		Antenna Design and Analysis	PCC	0	0	4	4	2

PROGRAM ELECTIVE COURSES (PEC)

SEMESTER I, ELECTIVE - I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Electromagnetic Interference and Compatibility in System Design	PEC	3	0	0	3	3
2.		Information Retrieval Techniques	PEC	3	0	0	3	3
3.		Multimedia Compression Techniques	PEC	3	0	0	3	3
4.		Advanced Microwave Communication	PEC	3	0	0	3	3
5.		FPGA Based Communication System Design	PEC	3	0	0	3	3

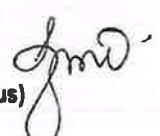
SEMESTER I, ELECTIVE - II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Network Routing Algorithms	PEC	3	0	0	3	3
2.		Biometrics for Network Security	PEC	3	0	0	3	3
3.		Embedded Networking	PEC	3	0	0	3	3

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4.		Advanced Digital Signal Processing	PEC	3	0	0	3	3
5.		Network Engineering and Management	PEC	3	0	0	3	3

SEMESTER II, ELECTIVE – III

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Mobile Adhoc Networks	PEC	3	0	0	3	3
2.		RF System Design for Wireless Communication	PEC	3	0	0	3	3
3.		Artificial Intelligent Techniques	PEC	3	0	0	3	3
4.		Cognitive Radio	PEC	3	0	0	3	3
5.		Radiating Systems	PEC	3	0	0	3	3

SEMESTER II, ELECTIVE – IV

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Speech and Audio Signal Processing	PEC	3	0	0	3	3
2.		Beam forming in Wireless Communication	PEC	3	0	0	3	3
3.		Microwaves and Radar	PEC	3	0	0	3	3
4.		Optical Signal Processing	PEC	3	0	0	3	3
5.		Remote Sensing by Lasers	PEC	3	0	0	3	3

SEMESTER III, ELECTIVE – V

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Network on Chip Design	PEC	3	0	0	3	3
2.		Communication Network Security	PEC	3	0	0	3	3
3.		Machine Learning Algorithms	PEC	3	0	0	3	3
4.		Advanced Display System	PEC	3	0	0	3	3
5.		Medical Image Processing	PEC	3	0	0	3	3

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RESEARCH METHODOLOGY AND IPR COURSES (RMC)

SL. NO.	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
			L	T	P		
1.		Research Methodology and IPR	3	0	0	3	3

OPEN ELECTIVE COURSES [OEC]

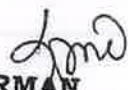
SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		FPGA Based Communication System Design	OEC	3	0	0	3	3
2.		Data Converters	OEC	3	0	0	3	3
3.		Smart Antennas	OEC	3	0	0	3	3
4.		Advanced Digital Image processing	OEC	3	0	0	3	3
5.		Embedded System Design using MSP430	OEC	3	0	0	3	3
6.		Microwave Remote Sensing	OEC	3	0	0	3	3
7.		High Speed Switching Architecture	OEC	3	0	0	3	3
8.		RFIC Design	OEC	3	0	0	3	3
9.		Space Time Communication	OEC	3	0	0	3	3
10.		Communication Protocol Engineering	OEC	3	0	0	3	3

AUDIT COURSES (AC)

SL. NO.	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			CREDITS
			L	T	P	
1.		English for Research Paper Writing	2	0	0	0
2.		Disaster Management	2	0	0	0
3.		Sanskrit for Technical Knowledge	2	0	0	0
4.		Value Education	2	0	0	0
5.		Constitution of India	2	0	0	0
6.		Pedagogy Studies	2	0	0	0
7.		Stress Management by Yoga	2	0	0	0
8.		Personality Development Through Life Enlightenment Skills	2	0	0	0
9.		Unnat Bharat Abhiyan	2	0	0	0

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EMPLOYABILITY ENHANCEMENT COURSES (EEC)

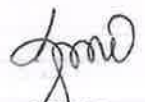
SL. No.	Course Code	Course Title	Periods per week			Credits	Semester
			Lecture	Tutorial	Practical		
		Communication Skill Laboratory	0	0	4	2	1
1.		Mini Project with Seminar	0	0	4	2	2
2.		Dissertation - I	0	0	20	10	3
3.		Dissertation - II	0	0	32	16	4

SUMMARY

M.E COMMUNICATION SYSTEMS						
	Subject Area	Credits Per Semester				Credits Total
		I	II	III	IV	
1.	FC	04	00	00	00	04
2.	PCC	05	11	05	00	21
3.	PEC	06	06	03	00	15
4.	RMC	03	00	00	00	03
5.	OEC	00	00	03	00	03
6.	EEC	02	02	10	16	30
7.	Non Credit/Audit Courses	✓	✓	00	00	00
	Total Credit	20	19	21	16	76

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M.E. COMMUNICATION SYSTEMS
REGULATION - 2021
I TO IV SEMESTERS CURRICULUM AND SYLLABI
SEMESTER I

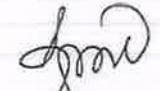
SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1		Applied Engineering Mathematics for Communication System	FC	3	1	0	4	4
2		Advanced Digital Communication	PCC	3	0	0	3	3
3		Program Elective - I	PEC	3	0	0	3	3
1		Program Elective - II	PEC	3	0	0	3	3
5		Research Methodology and IPR	RMC	3	0	0	3	3
6		Robotics	AP	3	0	0	3	3

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LAST BOARD OF STUDIES MEETING MINUTES

V- Semester:

- Analog Communication and Digital Communication could be in the different semester.
- Digital Signal Processors may be removed from the DSP course and multirate signal processing may be included.
- Introduction to estimation and detection theory may be included in the Digital and/or Analog communication course.
- Digital Signal Processors may be included along with Advanced Microprocessors and Microcontrollers course.

VI – Semester:

- VLSI theory and Lab may be shifted to V Semester.

ELECTRONICS AND COMMUNICATION ENGINEERING

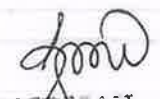
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PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

After successful completion of the programme, Graduates will be able to

PEO 1: Graduates will have successful professional career in Electronics Communication Engineering and its related disciplines or become an entrepreneur pursue higher education. (Successful career – Higher Education – Entrepreneur)

PEO 2: Graduated will have the knowledge of Electronics and Communic Engineering to find practical solution to the problems and for doing research. (Technical Expertise and Research)

PEO 3: Graduated will have the communication skill, lifelong learning attitude, team work capability, ethical and moral values and out of box thinking (Skills and Attitude)



ELECTRONICS AND COMMUNICATION ENGINEERING

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Dr. N B Balamurugan

Dr. RAMESH, R

JIM HAWKINSON

Dr. Navin Rajan

CHITRA'S ECE

7 others

You

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Unit I	REVIEW OF ANALOG AND DIGITAL MODULATION TECHNIQUES	9 Hours
Review of PSK, FSK, and ASK. Base band and band pass communication. Signal space representation. Linear and nonlinear modulation techniques. M-ary modulation techniques. Spectral characteristics of digital modulations. Spread spectrum modulation techniques.		
Unit II	RECEIVERS FOR AWGN AND FADING CHANNELS	9 Hours
Optimum receivers for AWGN channels. Correlation receiver, matched filter, maximum likelihood sequence detector, envelope detectors for M-ary signals. Characterization of fading multipath channels. RAKE receivers. Maximum likelihood sequence detection in fading channels.		
Unit III	ADVANCED MODULATION TECHNIQUES AND MULTICARRIER SYSTEMS	9 Hours
Modulation techniques in MIMO systems. Cognitive radio modulation technique. OFDM- Generation of subcarriers using the FFT, Guard Tone and Cyclic Extension; Watermarking; Peak to Average Power reduction schemes. Multicarrier CDMA. System design. Performance parameters.		
Unit IV	CONVOLUTIONAL CODED DIGITAL COMMUNICATION	9 Hours
Representation of codes using Peterson, state diagram, tree diagram, and trellis diagram - Decoding techniques using Viterbi, Sequential and Threshold method. Error probability performance for BPSK.		
	MODULATION	9 Hours

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MINI PROJECT WITH SEMINAR

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Course Objectives:

1. Address the real world problems and find the required solutions.
2. Design the problem solutions as per the requirements analysis done.
3. Study the basic concepts of programming, hardware modules for Raspberry pi Arduino ARM Cortex, Intel Galileo etc.
4. Fabricate and implement the mini project oriented solution for project based learning.
5. Improve the team building, communication and management skills of the students.

Syllabus Contents:

Students can take up small problems in the field of design engineering as mini project. It can be related to solutions to an engineering problem, verification and analysis of experimental data available, conducting experiments on various engineering subjects, material characterization, studying a software tool for the solution of an engineering problem etc.

Further Reading:

Course Outcomes:

1. After completion of the course, Student will be able to
 - Students will get an opportunity to work in actual industrial environment if they opt for internship.

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Sl. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1		Antenna Design and Analysis	PCC	2	0	0	2	2
2		Program Elective - V	PEC	3	0	0	3	3
3		Open Elective	OLE	3	0	0	3	3
PRACTICALS								
1		RF System Design Laboratory	PCC	0	0	4	4	2
4		Dissertation - I	ETC	0	0	20	20	10
TOTAL				09	00	24	33	21

SEMESTER IV

Sl. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1		Dissertation - II	LLC	0	0	32	32	16
TOTAL				00	00	32	32	16

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Dr. KAMESH R.

Dr. N B Balasubramaniam

HOD ECE

GOPI ES

Dr. Deva Rajan

SUNDARAJA ECE


Asst. Prof. ECE

9 others

You

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SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1		Antenna Design and Analysis	PCC	5	0	0	5	3
2		Practical Elective - V	PI C	5	0	0	5	3
3		Open Elective	OLC	5	0	0	5	3
PRACTICALS								
1		RF System Design Laboratory	PCC	0	0	4	4	2
5		Thesis - I	EFC	0	0	20	20	10
TOTAL				09	00	24	38	21

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1		Dissertation - II	LLC	0	0	32	32	16
TOTAL				00	00	32	32	16

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Dr. RAMESH. R
Dr. N B Balaramurugan HOD ECE
GOPI ES
Dr. Dova Rajan
SUNDARAJA ECE
ECE
9 others
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 Department of Electronics and Communication
 Engineering

Hearty Welcome to Board of Studies Members
 09.07.2021 (FRIDAY)



Dr. B. Padmanaban
 Professor & Head/ECE



Join on microphone (ctrl + dt)

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CHITRA S ECE

Dr. N B Balaramagan

Dr. RAMESH. R

JIM HAWKINSON

Dr. Deva Rajan

CHITRA S ECE

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VISION OF THE DEPARTMENT

To achieve excellence in electronics and communication engineering by imparting contemporary knowledge and skills to the students and serve as a valuable resource Centre to the industry and the society.

MISSION OF THE DEPARTMENT

- To produce competent Electronics Engineers who can be successful in industry, higher education and entrepreneurship through quality education and training.
- To maintain state of the art learning facilities, enhance the competence of faculty to a standard and evolve as a centre of excellence through R&D.
- To develop skilled professionals with academic reliability, good communication, attitude towards lifelong learning, ability to be team players and willing to acquire higher education.
- To bridge the gap between the industry and academia with its quality collaboration and partnerships with industry through STOU, projects and consultancy fulfilling the societal needs.

HOD ECE

14 others

You

People

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HOD ECE Presentation

JIM HAWKINSO'H

Keerthika P ASVECE

Nithal Srinivasan Mathuk...

sathish kumar

SENTHILKUMAR S ECE

SUNDARAJA ECE

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Department of Electronics and Communication Engineering

Action Taken for BOS Meeting Minutes held on 09-07-2021

The Following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of 1st to 4th semester of M.E. Communication Systems and B.E. Electronics and Communication Engineering was approved as presented.
- It is resolved to recommend that the vision, Mission, PEO and PSO of the B.E. Electronics and Communication was approved as presented.

List of Syllabus Revision/New Courses Introduced

Course Code	Course Name	Change Details
M.E. Communication Systems		
2101CO101	Applied Engineering Mathematics for Communication System	New Course
2102CO102	Antenna Design and Analysis	New Course
2103CO001	Program Elective – I (Electromagnetic Interference and Compatibility in System Design)	New Course
2103CO006	Program Elective – II (Network Routing Algorithms)	New Course
2101RMX01	Research Methodology and IPR	New Course
	Audit Course – I	New Course
2102CO103	Communication System Laboratory	New Course
2102CO104	RF System Design Laboratory	New Course
2102CO201	Wireless Communication Engineering	New Course
2102CO202	Optical Switching and Networking	New Course
2102CO203	High Speed Communication Networks	New Course
2103CO015	Program Elective – III(Radiating Systems)	New Course
2103CO019	Program Elective – IV(Optical Signal Processing)	New Course
	Audit Course – II	New Course
2102CO204	Wireless Communication Networks Laboratory	New Course
2104CO205	Mini Project with Seminar	New Course

ATTESTED

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

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

BOS Chairman - ECE

List of CBCS/Electives for / offered by B.E. – Electronics and Communication Engineering

PROGRAM ELECTIVE COURSES PEC)

SEMESTER - I, ELECTIVE – I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Electromagnetic Interference and Compatibility in System Design	PEC	3	0	0	3	3
2.		Information Retrieval Techniques	PEC	3	0	0	3	3
3.		Multimedia Compression Techniques	PEC	3	0	0	3	3
4.		Advanced Microwave Communication	PEC	3	0	0	3	3
5.		FPGA Based Communication System Design	PEC	3	0	0	3	3

SEMESTER - I, ELECTIVE – II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Network Routing Algorithms	PEC	3	0	0	3	3
2.		Biometrics for Network Security	PEC	3	0	0	3	3
3.		Embedded Networking	PEC	3	0	0	3	3
4.		Advanced Digital Signal Processing	PEC	3	0	0	3	3
5.		Network Engineering and Management	PEC	3	0	0	3	3

SEMESTER - II, ELECTIVE – III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Mobile Adhoc Networks	PEC	3	0	0	3	3
2.		RF System Design for Wireless Communication	PEC	3	0	0	3	3
3.		Artificial Intelligent Techniques	PEC	3	0	0	3	3
4.		Cognitive Radio	PEC	3	0	0	3	3
5.		Radiating Systems	PEC	3	0	0	3	3

SEMESTER - II, ELECTIVE – IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		

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1.		Speech and Audio Signal Processing	PEC	3	0	0	3	3
2.		Beam forming in Wireless Communication	PEC	3	0	0	3	3
3.		Microwaves and Radar	PEC	3	0	0	3	3
4.		Optical Signal Processing	PEC	3	0	0	3	3
5.		Remote Sensing by Lasers	PEC	3	0	0	3	3

SEMESTER - III, ELECTIVE - V

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Network on Chip Design	PEC	3	0	0	3	3
2.		Communication Network Security	PEC	3	0	0	3	3
3.		Machine Learning Algorithms	PEC	3	0	0	3	3
4.		Advanced Display System	PEC	3	0	0	3	3
5.		Medical Image Processing	PEC	3	0	0	3	3

RESEARCH METHODOLOGY AND IPR COURSES (RMC)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY			PERIODS PER WEEK	TOTAL CONTACT PERIODS
			L	T	P		
1.		Research Methodology and IPR	3	0	0	3	3

OPEN ELECTIVE COURSES [OEC]

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.		Data Converters	OEC	3	0	0	3	3
2.		Smart Antennas	OEC	3	0	0	3	3
3.		Advanced Digital Image processing	OEC	3	0	0	3	3
4.		Embedded System Design using MSP430	OEC	3	0	0	3	3
5.		Microwave Remote Sensing	OEC	3	0	0	3	3
6.		High Speed Switching Architecture	OEC	3	0	0	3	3
7.		RFIC Design	OEC	3	0	0	3	3
8.		Space Time Communication	OEC	3	0	0	3	3
9.		Communication Protocol Engineering	OEC	3	0	0	3	3

HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg.
E.G.S Pillay Engineering College,
Nagapattinam - 611 002.


ATTESTED

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