

ANNA UNIVERSITY, CHENNAI

AFFILIATED INSTITUTIONS

R - 2008

I SEMESTER CURRICULA AND SYLLABI

(Common to all B.E. / B.Tech Programmes except B.E. Marine Engineering)

SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS2111	<u>Technical English - I</u>	3	1	0	4
2.	MA2111	<u>Mathematics - I</u>	3	1	0	4
3.	PH2111	<u>Engineering Physics - I</u>	3	0	0	3
4.	CY2111	<u>Engineering Chemistry - I</u>	3	0	0	3
5.	GE2111	<u>Engineering Graphics</u>	2	3	0	5
6.	GE2112	<u>Fundamentals of Computing and Programming</u>	3	0	0	3
PRACTICAL						
7.	GE2115	<u>Computer Practice Laboratory -I</u>	0	0	3	2
8.	GE2116	<u>Engineering Practices Laboratory</u>	0	0	3	2
9.		* <u>Physics & Chemistry Laboratory I</u>	0	0	3	-
TOTAL : 26 CREDITS						

* Laboratory classes on alternate weeks for Physics and Chemistry. The lab examinations will be held only in the second semester (Including the first semester experiments also).

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R 2008

B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

II - VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS2161	<u>Technical English – II*</u>	3	1	0	4
2.	MA2161	<u>Mathematics – II*</u>	3	1	0	4
3.	PH2161	<u>Engineering Physics – II*</u>	3	0	0	3
4.	CY2161	<u>Engineering Chemistry – II*</u>	3	0	0	3
5. a	ME2151	<u>Engineering Mechanics</u> (For non-circuit branches)	3	1	0	4
5. b	EE2151	<u>Circuit Theory</u> (For branches under Electrical Faculty)	3	1	0	4
5. c	EC2151	<u>Electric Circuits and Electron Devices</u> (For branches under I & C Faculty)	3	1	0	4
6. a	GE2151	<u>Basic Electrical & Electronics Engineering</u> (For non-circuit branches)	4	0	0	4
6. b	GE2152	<u>Basic Civil & Mechanical Engineering</u> (For circuit branches)	4	0	0	4
PRACTICAL						
7.	GE2155	<u>Computer Practice Laboratory-II*</u>	0	1	2	2
8.	GS2165	<u>Physics & Chemistry Laboratory - II*</u>	0	0	3	2
9. a	ME2155	<u>Computer Aided Drafting and Modeling Laboratory</u> (For non-circuits branches)	0	1	2	2
9. b	EE2155	<u>Electrical Circuits Laboratory</u> (For branches under Electrical Faculty)	0	0	3	2
9. c	EC2155	<u>Circuits and Devices Laboratory</u> (For branches under I & C Faculty)	0	0	3	2
TOTAL : 28 CREDITS						
10.	-	<u>English Language Laboratory</u> ⁺	0	0	2	-

* Common to all B.E. / B.Tech. Programmes

+ Offering English Language Laboratory as an additional subject (with no marks) during 2nd semester may be decided by the respective Colleges affiliated to Anna University Chennai.

A. CIRCUIT BRANCHES

I Faculty of Electrical Engineering

1. B.E. Electrical and Electronics Engineering
2. B.E. Electronics and Instrumentation Engineering
3. B.E. Instrumentation and Control Engineering

II Faculty of Information and Communication Engineering

1. B.E. Computer Science and Engineering
2. B.E. Electronics and Communication Engineering
3. B.E. Bio Medical Engineering
4. B.Tech. Information Technology

B. NON – CIRCUIT BRANCHES

I Faculty of Civil Engineering

1. B.E. Civil Engineering

II Faculty of Mechanical Engineering

1. B.E. Aeronautical Engineering
2. B.E. Automobile Engineering
3. B.E. Marine Engineering
4. B.E. Mechanical Engineering
5. B.E. Production Engineering

III Faculty of Technology

1. B.Tech. Chemical Engineering
2. B.Tech. Biotechnology
3. B.Tech. Polymer Technology
4. B.Tech. Textile Technology
5. B.Tech. Textile Technology (Fashion Technology)
6. B.Tech. Petroleum Engineering
7. B.Tech. Plastics Technology

SEMESTER III

(Applicable to the students admitted from the Academic year 2008–2009 onwards)

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
MA 2211	<u>Transforms and Partial Differential Equations</u>	3	1	0	4
EC 2201	<u>Electrical Engineering</u>	3	0	0	3
EC 2202	<u>Data Structures and Object Oriented Programming in C++</u>	3	0	0	3
EC 2203	<u>Digital Electronics</u>	3	1	0	4
EC 2204	<u>Signals and systems</u>	3	1	0	4
EC 2205	<u>Electronic Circuits- I</u>	3	1	0	4
PRACTICAL					
EC 2207	<u>Digital Electronics Lab</u>	0	0	3	2
EC 2208	<u>Electronic Circuits Lab I</u>	0	0	3	2
EC 2209	<u>Data structures and Object Oriented Programming Lab</u>	0	0	3	2
	TOTAL	18	4	9	28

SEMESTER IV

(Applicable to the students admitted from the Academic year 2008–2009 onwards)

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
MA 2261	<u>Probability and Random Processes</u>	3	1	0	4
EC 2251	<u>Electronic Circuits II</u>	3	1	0	4
EC 2252	<u>Communication Theory</u>	3	1	0	4
EC 2253	<u>Electromagnetic Fields</u>	3	1	0	4
EC 2254	<u>Linear Integrated Circuits</u>	3	0	0	3
EC 2255	<u>Control Systems</u>	3	0	0	3
PRACTICAL					
EC 2257	<u>Electronics circuits II and simulation lab</u>	0	0	3	2
EC 2258	<u>Linear Integrated Circuit Lab</u>	0	0	3	2
EC 2259	<u>Electrical Engineering and Control System Lab</u>	0	0	3	2
	TOTAL	18	4	9	28

SEMESTER V

(Applicable to the students admitted from the Academic year 2008–2009 onwards)

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
EC2301	<u>Digital Communication</u>	3	0	0	3
EC2302	<u>Digital Signal Processing</u>	3	1	0	4
EC2303	<u>Computer Architecture and Organization</u>	3	0	0	3
EC2305	<u>Transmission Lines and Wave guides</u>	3	1	0	4
GE2021	<u>Environmental Science and Engineering</u>	3	0	0	3
EC2304	<u>Microprocessors and Microcontrollers</u>	3	1	0	4
PRACTICAL					
EC2306	<u>Digital Signal Processing Lab</u>	0	0	3	2
EC2307	<u>Communication System Lab</u>	0	0	3	2
EC2308	<u>Microprocessors and Microcontrollers Lab</u>	0	0	3	2
	TOTAL	18	3	9	27

SEMESTER VI

(Applicable to the students admitted from the Academic year 2008–2009 onwards)

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
MG2351	<u>Principles of Management</u>	3	0	0	3
EC2351	<u>Measurements and Instrumentation</u>	3	0	0	3
EC2352	<u>Computer Networks</u>	3	0	0	3
EC2353	<u>Antenna and Wave Propagation</u>	3	1	0	4
EC2354	<u>VLSI Design</u>	3	0	0	3
	Elective I	3	0	0	3
PRACTICAL					
EC2356	<u>Computer Networks Lab</u>	0	0	3	2
EC2357	<u>VLSI Design Lab</u>	0	0	3	2
GE2321	<u>Communication Skills Lab</u>	0	0	4	2
	TOTAL	18	1	10	25

SEMESTER VII

(Applicable to the students admitted from the Academic year 2008–2009 onwards)

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
EC2401	<u>Wireless Communication</u>	3	0	0	3
EC2402	<u>Optical Communication and Networks</u>	3	0	0	3
EC2403	<u>RF and Microwave Engineering</u>	3	0	0	3
	Elective II	3	0	0	3
	Elective III	3	0	0	3
	Elective IV	3	0	0	3
PRACTICAL					
EC2404	<u>Electronics System Design Lab</u>	0	0	3	2
EC2405	<u>Optical & Microwave Lab</u>	0	0	3	2
TOTAL		18	0	6	22

SEMESTER VIII

(Applicable to the students admitted from the Academic year 2008–2009 onwards)

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
	Elective V	3	0	0	3
	Elective VI	3	0	0	3
PRACTICAL					
EC2451	Project Work	0	0	12	6
TOTAL		6	0	12	12

LIST OF ELECTIVES
SEMESTER VI – Elective I

CODE NO.	COURSE TITLE	L	T	P	C
EC2021	<u>Medical Electronics</u>	3	0	0	3
EC2022	<u>Operating Systems</u>	3	0	0	3
EC2023	<u>Solid State Electronic Devices</u>	3	0	0	3
IT2064	<u>Speech Processing</u>	3	0	0	3
MA2264	<u>Numerical Methods</u>	3	1	0	4
CS2021	<u>Multicore Programming</u>	3	0	0	3

SEMESTER VII - Elective II

CODE NO.	COURSE TITLE	L	T	P	C
EC2030	<u>Advanced Digital Signal Processing</u>	3	0	0	3
GE2022	<u>Total Quality Management</u>	3	0	0	3
EC2035	<u>Cryptography and Network Security</u>	3	0	0	3
EC2036	<u>Information Theory</u>	3	0	0	3
GE2071	<u>Intellectual Property Rights</u>	3	0	0	3
GE2025	<u>Professional Ethics in Engineering</u>	3	0	0	3

SEMESTER VII - Elective III

CODE NO.	COURSE TITLE	L	T	P	C
EC2027	<u>Advanced Microprocessors</u>	3	0	0	3
EC2028	<u>Internet and Java</u>	3	0	0	3
CS2060	<u>High Speed Networks</u>	3	0	0	3
CS2053	<u>Soft Computing</u>	3	0	0	3
EC2037	<u>Multimedia Compression and Communication</u>	3	0	0	3
EC2039	<u>Parallel and Distributed Processing</u>	3	0	0	3

SEMESTER VII - Elective IV

CODE NO.	COURSE TITLE	L	T	P	C
EC2029	<u>Digital Image Processing</u>	3	0	0	3
EC2031	<u>Electromagnetic Interference and Compatibility</u>	3	0	0	3
EC2033	<u>Power Electronics</u>	3	0	0	3
EC2034	<u>Television and Video Engineering</u>	3	0	0	3
EC2038	<u>Nano Electronics</u>	3	0	0	3
EC2041	<u>Avionics</u>	3	0	0	3

SEMESTER VIII - Elective V

CODE NO.	COURSE TITLE	L	T	P	C
EC2042	<u>Embedded and Real Time Systems</u>	3	0	0	3
EC2046	<u>Advanced Electronic system design</u>	3	0	0	3
EC2047	<u>Optoelectronic devices</u>	3	0	0	3
EC2050	<u>Mobile Adhoc Networks</u>	3	0	0	3
EC2051	<u>Wireless Sensor Networks</u>	3	0	0	3
EC2052	<u>Remote Sensing</u>	3	0	0	3
EC2053	<u>Engineering Acoustics</u>	3	0	0	3

SEMESTER VIII - Elective VI

CODE NO.	COURSE TITLE	L	T	P	C
EC2043	<u>Wireless networks</u>	3	0	0	3
EC2044	<u>Telecommunication Switching and Networks</u>	3	0	0	3
EC2045	<u>Satellite Communication</u>	3	0	0	3
EC2048	<u>Telecommunication System Modeling and Simulation</u>	3	0	0	3
EC2049	<u>Radar and Navigational Aids</u>	3	0	0	3
EC2054	<u>Optical Networks</u>	3	0	0	3



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