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	Т	Р	С
THEO	RY					
1.	HS2111	Technical English - I	3	1	0	4
2.	MA2111	Mathematics - I	3	1	0	4
3.	PH2111	Engineering Physics - I	3	0	0	3
4.	CY2111	Engineering Chemistry - I	3	0	0	3
5.	GE2111	Engineering Graphics	2	3	0	5
6.	GE2112	Fundamentals of Computing and Programming	3	0	0	3
PRAC	TICAL					
7.	GE2115	Computer Practice Laboratory -I	0	0	3	2
8.	GE2116	Engineering Practices Laboratory	0	0	3	2
9.		* Physics & Chemistry Laboratory I	0	0	3	-
			тот	AL : 2	6 CRE	DITS

^{*} 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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B.E. ELECTRICAL AND ELECTRONICS ENGINEERING II - VIII SEMESTERS CURRICULUM AND SYLLABI

SEMESTER II

CURRICULUM

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С
THEOR	RY				1	L
1.	HS2161	Technical English – II*	3	1	0	4
2.	MA2161	Mathematics – II*	3	1	0	4
3.	PH2161	Engineering Physics – II*	3	0	0	3
4.	CY2161	Engineering Chemistry – II*	3	0	0	3
5. a	ME2151	Engineering Mechanics (For non-circuit branches)	3	1	0	4
5. b	EE2151	Circuit Theory (For branches under Electrical Faculty)	3	1	0	4
5. c	EC2151	Electric Circuits and Electron Devices (For branches under I & C Faculty)	3	1	0	4
6. a	GE2151	Basic Electrical & Electronics Engineering (For non-circuit branches)	4	0	0	4
6. b	GE2152	Basic Civil & Mechanical Engineering (For circuit branches)	4	0	0	4
PRACT	ICAL					
7.	GE2155	Computer Practice Laboratory-II*	0	1	2	2
.8.	GS2165	Physics & Chemistry Laboratory - II*	0	0	3	2
9. a	ME2155	Computer Aided Drafting and Modeling Laboratory (For non-circuits branches)	0	1	2	2
9. b	EE2155	Electrical Circuits Laboratory	0	0	3	2
9. c	EC2155	(For branches under Electrical Faculty) Circuits and Devices Laboratory (For branches under I & C Faculty)	0	0	3	2
			ТО	TAL : 2	28 CRE	DITS

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10.	-	English Language Laboratory	0	0	2	-
				V-same		

- * Common to all B.E. / B.Tech. Programmes
- + Offering English Language Laboratory as an additional subject (with no marks) during 2 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

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SEMESTER III

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

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С
		THEORY				
1.	MA 2211	Transforms and Partial Differential Equations	3	1	0	4
2.	EE 2201	Measurements & Instrumentation	3	0	0	3
3.	EE 2202	Electromagnetic Theory	3	1	0	4
4.	GE 2211	Environmental Science and Engineering	3	0	0	3
5.	EE 2203	Electronic Devices & Circuits	3	0	0	3
6.	EE 2204	Data Structures and Algorithms	3	1	0	4
PRAC	TICAL					
1.	EE 2207	Electron Devices and Circuits Laboratory	0	0	3	2
2.	EE 2209	Data Structures and Algorithms Laboratory	0	0	3	2
3	EE 2208	Measurements & Instrumentation Laboratory	0	0	3	2
TOTA	L		18	3	9	27

SEMESTER IV

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

SL. No.	COURSE	COURSE TITLE	L	Т	Р	С
THEC	RY					
1.	MA 2264	Numerical Methods	3	1	0	4
2.	EE 2251	Electrical Machines – I	3	1	0	4
3.	EE 2252	Power Plant Engineering	3	1	0	4
4.	EE 2253	Control Systems	3	1	0	4
5.	EE 2254	Linear Integrated Circuits and Applications	3	0	0	3
6.	EE 2255	Digital Logic Circuits	3	1	0	4
PRAC	TICAL					
1.	EE 2257	Control Systems Laboratory	0	0	3	2
2.	EE 2258	Linear and Digital Integrated Circuits Laboratory	0	0	3	2
3.	EE 2259	Electrical Machines Laboratory - I	0	0	3	2
•		TOTAL	18	5	9	29

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

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С
THEO	RY					
1.	EC2311	Communication Engineering	3	0	0	3
2.	EC2314	Digital Signal Processing	3	1	0	4
3.	CS2311	Object Oriented Programming	3	0	. 0	3
4.	EE2301	Power Electronics	3	0	0	3
5.	EE2302	Electrical Machines II	3	1	0	4
6.	EE2303	Transmission & Distribution	3	1	0	4
PRAC	TICAL					
1.	CS2312	Object Oriented Programming Laboratory	0	0	3	2
2.	GE2321	Communication Skills Laboratory	0	0	4	2
3.	EE2304	Power Electronics Laboratory	0	0	3	2
4.	EE2305	Electrical Machines Laboratory II	0	0	3	2
		TOTAL	18	3	13	29

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

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С
THEC	RY	·				
1.	EE2351	Power System Analysis	3	1	0	4
2.	EE2352	Solid State Drives	3	0	0	3
3.	EE2353	High Voltage Engineering	3	0	0	3
4.	EE2354	Microprocessors and Micro controller	3	0	0	3
5.	EE2355	Design of Electrical Machines	3	1	0	4
6.	CS2363	Computer Networks	3	0	0	3
7.		Elective I	3	0	0	3
PRAC	TICAL					
1.	EE2356	Microprocessor and Micro controller Laboratory	0	0	3	2
2.	EE2357	Presentation Skills and Technical Seminar	0	0	2	1
		TOTAL	21	2	5	26

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SEMESTER VII

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

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С
THEO	RY					
1.	EE2401	Power System Operation and Control	3	0	0	3
2.	EE2402	Protection & Switchgear	3	0	0	3
3.	EE2403	Special Electrical Machines	3	0	0	3
4.	MG2351	Principles of Management	3	0	0	3
5.	CS2411	Operating Systems	3	0	0	3
6.	·	Elective – II	3	0	0	3
PRAC	TICAL					
1.	EE2404	Power System Simulation Laboratory	0	0	3	2
2.	EE2405	Comprehension	0	0	2	1
		TOTAL	18	0	5	21

SEMESTER VIII

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

THE	ORY		L	T	Р	C
1.	EE2451	Electric Energy Generation, Utilization and Conservation	3	0	0	3
2.		Elective – III	3	0	0	3
3.		Elective – IV	3	0	0	3
PRA	CTICAL					
1.	EE2452	Project work	0	0	12	6
		TOTAL	9	0	12	15

LIST OF ELECTIVES - R 2008

ELECTIVE I

SL.NO	CODE NO.	COURSE TITLE	L	T	Р	С
1.	EI2404	Fibre Optics and Laser Instruments	3	0	0	3
2.	CS2070	Visual Languages and Applications	3	0	0	3
3.	IC2351	Advanced Control System	3	0	0	3
4.	EE2023	Robotics and Automation	3	0	0	3
5.	GE2025	Professional Ethics in Engineering	3	0	0	3
6.	EE2027	Power System Transients	3	0	0	3

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ELECTIVE II

7.	El2311	Biomedical Instrumentation	3	0	0	3
8.	EE2025	Intelligent Control	3	0	0	3
9.	EE2026	Power System Dynamics	3	0	0	3
10.	CS2071	Computer Architecture	3	0	0	3
11.	GE2022	Total Quality Management	3	0	0	3

ELECTIVE III

12.	EE2028	Power Quality	3	0	0	3
13.	EE2029	System Identification and Adaptive	3	0	0	3
		Control				
14.	EE2030	Operations Research	3	0	0	3
15.	El2403	VLSI Design	3	0	0	3
16.	EE2032	High Voltage Direct Current	3	0	0	3
		Transmission	3	U	U	3

ELECTIVE IV

17.	GE2023	Fundamental of NanoScience	3	0	0	3
18.	EE2033	Micro Electro Mechanical Systems	3	0	0	3
19.	EE2034	Software for Circuit Simulation	3	0	0	3
20.	EE2035	Computer Aided Design of Electrical Apparatus	3	0	0	3
21.	EE2036	Flexible AC Transmission Systems	3	0	0	3

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