

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
B.E. AERONAUTICAL ENGINEERING
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
I TO VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

SL NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

SL NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8251	Materials Science	BS	3	3	0	0	3
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0	0	4	2
TOTAL				30	20	2	8	25

ATTESTED


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KGS COLLEGE OF TECHNOLOGY
 KANAKALURU, CHENNAI - 600 097.

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	ME8392	Manufacturing Technology	PC	3	3	0	0	3
3.	AE8301	Aero Engineering Thermodynamics	PC	3	3	0	0	3
4.	CE8394	Fluid Mechanics and Machinery	ES	4	4	0	0	4
5.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	0	0	3
6.	AE8302	Elements of Aeronautical Engineering	PC	3	3	0	0	3
PRACTICAL								
7.	CE8381	Strength of Materials and Fluid Mechanics & Machinery Laboratory	ES	4	0	0	4	2
8.	AE8311	Thermodynamics Laboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
TOTAL				30	20	0	10	25

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8491	Numerical Methods	BS	4	4	0	0	4
2.	AE8401	Aerodynamics - I	PC	3	3	0	0	3
3.	AE8402	Aircraft Systems and Instruments	PC	3	3	0	0	3
4.	PR8451	Mechanics of Machines	PC	3	3	0	0	3
5.	AE8403	Aircraft Structures - I	PC	5	3	2	0	4
6.	AE8404	Propulsion - I	PC	5	3	2	0	4
PRACTICAL								
7.	ME8381	Computer Aided Machine Drawing	PC	4	0	0	4	2
8.	AE8411	Aerodynamics Laboratory	PC	2	0	0	2	1
TOTAL				29	19	4	8	24

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SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	AE8501	Flight Dynamics	PC	5	3	2	0	4
2.	AE8502	Aircraft Structures - II	PC	5	3	2	0	4
3.	AE8503	Aerodynamics - II	PC	3	3	0	0	3
4.	AE8504	Propulsion - II	PC	3	3	0	0	3
5.	AE8505	Control Engineering	PC	3	3	0	0	3
6.		Open Elective - I	OE	3	3	0	0	3
PRACTICAL								
7.	AE8511	Aircraft Structures Laboratory	PC	4	0	0	4	2
8.	AE8512	Propulsion Laboratory	PC	2	0	0	2	1
9.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				30	18	4	8	24

SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	AE8601	Finite Element Methods	PC	3	3	0	0	3
2.	AE8602	Experimental Aerodynamics	PC	3	3	0	0	3
3.	AE8603	Composite Materials and Structures	PC	3	3	0	0	3
4.	AE8604	Aircraft Design	PC	3	3	0	0	3
5.	AE8605	Experimental Stress Analysis	PC	3	3	0	0	3
6.		Professional Elective - I	PE	3	3	0	0	3
PRACTICAL								
7.	AE8611	Aero Engine and Airframe Laboratory	PC	4	0	0	4	2
8.	AE8612	Computer Aided Simulation Laboratory	PC	4	0	0	4	2
9.	AE8613	Aircraft Design Project - I	EEC	2	0	0	2	1
TOTAL				28	18	0	10	23

SEMESTER VII

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	GE8077	Total Quality Management	HS	3	3	0	0	3
2.	AE8751	Avionics	PC	3	3	0	0	3
3.	ME8093	Computational Fluid Dynamics	PC	3	3	0	0	3
4.		Open Elective - II	OE	3	3	0	0	3
5.		Professional Elective - II	PE	3	3	0	0	3
6.		Professional Elective - III	PE	3	3	0	0	3
PRACTICAL								
7.	AE8711	Aircraft Systems Laboratory	PC	4	0	0	4	2
8.	AE8712	Flight Integration Systems and Control Laboratory	PC	4	0	0	4	2
9.	AE8713	Aircraft Design Project - II	EEC	2	0	0	2	1
TOTAL				28	18	0	10	23

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SEMESTER VIII

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective – IV	PE	3	3	0	0	3
2.		Professional Elective – V	PE	3	3	0	0	3
PRACTICAL								
3.	AE8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NUMBER OF CREDITS TO BE EARNED FOR AWARD OF THE DEGREE = 185

ATTESTED



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HUMANITIES AND SOCIAL SCIENCES (HS)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
4.	GE8077	Total Quality Management	HS	3	3	0	0	3

BASIC SCIENCE (BS)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MAB151	Engineering Mathematics I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8251	Materials Science	BS	3	3	0	0	3
7.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
8.	MA8491	Numerical Methods	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
6.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
7.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0	0	4	2
8.	CE8394	Fluid Mechanics and Machinery	ES	4	4	0	0	4
9.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	0	0	3
10.	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	ES	4	0	0	4	2

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PROFESSIONAL CORE (PC)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8392	Manufacturing Technology	PC	3	3	0	0	3
2.	AE8301	Aero Engineering Thermodynamics	PC	3	3	0	0	3
3.	AE8302	Elements of Aeronautical Engineering	PC	3	3	0	0	3
4.	AE8311	Thermodynamics Laboratory	PC	4	0	0	4	2
5.	AE8401	Aerodynamics - I	PC	3	3	0	0	3
6.	AE8402	Aircraft Systems and Instruments	PC	3	3	0	0	3
7.	PR8451	Mechanics of Machines	PC	3	3	0	0	3
8.	AE8403	Aircraft Structures - I	PC	5	3	2	0	4
9.	AE8404	Propulsion - I	PC	5	3	2	0	4
10.	ME8381	Computer Aided Machine Drawing	PC	4	0	0	4	2
11.	AE8411	Aerodynamics Laboratory	PC	2	0	0	2	1
12.	AE8501	Flight Dynamics	PC	5	3	2	0	4
13.	AE8502	Aircraft Structures - II	PC	5	3	2	0	4
14.	AE8503	Aerodynamics - II	PC	3	3	0	0	3
15.	AE8504	Propulsion - II	PC	3	3	0	0	3
16.	AE8505	Control Engineering	PC	3	3	0	0	3
17.	AE8511	Aircraft Structures Laboratory	PC	4	0	0	4	2
18.	AE8512	Propulsion Laboratory	PC	2	0	0	2	1
19.	AE8601	Finite Element Methods	PC	3	3	0	0	3
20.	AE8602	Experimental Aerodynamics	PC	3	3	0	0	3
21.	AE8603	Composite Materials and Structures	PC	3	3	0	0	3
22.	AE8604	Aircraft Design	PC	3	3	0	0	3
23.	AE8611	Aero Engine and Airframe Laboratory	PC	4	0	0	4	2
24.	AE8612	Computer Aided Simulation Laboratory	PC	4	0	0	4	2
25.	AE8751	Avionics	PC	3	3	0	0	3
26.	ME8093	Computational Fluid Dynamics	PC	3	3	0	0	3
27.	AE8605	Experimental Stress Analysis	PC	3	3	0	0	3
28.	AE8711	Aircraft Systems Laboratory	PC	4	0	0	4	2
29.	AE8712	Flight Integration Systems and Control Laboratory	PC	4	0	0	4	2

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KCG COLLEGE OF TECHNOLOGY
KARAPET, K. J. SO. CHENNAI - 600 071.

PROFESSIONAL ELECTIVES FOR B.E. AERONAUTICAL ENGINEERING

SEMESTER VI, ELECTIVE – I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	PR8072	New Product Development	PE	3	3	0	0	3
2.	AE8001	Space Mechanics	PE	3	3	0	0	3
3.	AE8002	Aircraft General Engineering and Maintenance Practices	PE	3	3	0	0	3
4.	AE8003	Heat Transfer	PE	3	3	0	0	3
5.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3
6.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

SEMESTER VII, ELECTIVES– II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	AE8004	Helicopter Theory	PE	3	3	0	0	3
2.	AE8005	Aero Engine Maintenance and Repair	PE	3	3	0	0	3
3.	AE8006	UAV Systems	PE	3	3	0	0	3
4.	AE8007	Aircraft Materials	PE	3	3	0	0	3
5.	AE8008	Vibration and Elements of Aeroelasticity	PE	3	3	0	0	3
6.	GE8071	Disaster Management	PE	3	3	0	0	3


SEMESTER VII, ELECTIVES – III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	AE8009	Airframe Maintenance and Repair	PE	3	3	0	0	3
2.	AE8010	Fatigue and Fracture	PE	3	3	0	0	3
3.	PR8071	Lean Six Sigma	PE	3	3	0	0	3
4.	ME8097	Non Destructive Testing and Evaluation	PE	3	3	0	0	3
5.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3
6.	GE8074	Human Rights	PE	3	3	0	0	3

SEMESTER VIII, ELECTIVES – IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	AE8011	Hypersonic Aerodynamics	PE	3	3	0	0	3
2.	AE8012	Wind Tunnel Techniques	PE	3	3	0	0	3
3.	AE8013	Rockets and Missiles	PE	3	3	0	0	3
4.	AE8014	Structural Dynamics	PE	3	3	0	0	3
5.	AE8015	Industrial Aerodynamics	PE	3	3	0	0	3

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 K. J. Somaiya Institute of Technology

SEMESTER VIII, ELECTIVES – V

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	PR8491	Computer Integrated Manufacturing	PE	3	3	0	0	3
2.	AE8016	Flight Instrumentation	PE	3	3	0	0	3
3.	AE8017	Theory of Elasticity	PE	3	3	0	0	3
4.	AE8018	Air Traffic Control and Planning	PE	3	3	0	0	3
5.	MG8591	Principles of Management	PE	3	3	0	0	3
6.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
2.	HS8581	Professional Communication	EEC	2	0	0	2	1
3.	AE8613	Aircraft Design Project - I	EEC	2	0	0	2	1
4.	AE8713	Aircraft Design Project - II	EEC	2	0	0	2	1
5.	AE8811	Project Work	EEC	20	0	0	20	10

SUMMARY

B.E. AERONAUTICAL ENGINEERING											
SL. NO.	Subject Area	Credits per semester								Credits Total	Percentage %
		I	II	III	IV	V	VI	VII	VIII		
1	Humanities Sciences	4	7	0	0	0	0	3	0	14	7.57
2	Basic Sciences	12	7	4	4	0	0	0	0	27	14.59
3	Engineering Sciences	9	11	9	0	0	0	0	0	29	15.14
4	Professional Core	0	0	11	20	20	19	10	0	80	43.24
5	Professional Elective	0	0	0	0	0	3	6	6	15	8.11
6	Open Elective	0	0	0	0	3	0	3	0	6	3.24
7	Employability Enhancement Courses	-	-	1	0	1	1	1	10	14	8.11
	Total	25	25	25	24	24	23	23	16	185	
8	Non Credit/Mandatory										

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ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 B.E. CIVIL ENGINEERING
 REGULATIONS – 2017
 CHOICE BASED CREDIT SYSTEM
 I TO VIII SEMESTERS CURRICULA & SYLLABI
 SEMESTER I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics – I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics – II	BS	4	4	0	0	4
3.	PH8201	Physics For Civil Engineering	BS	3	3	0	0	3
4.	BE8251	Basic Electrical and Electronics Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	CE8211	Computer Aided Building Drawing	PC	4	0	0	4	2
TOTAL				30	20	2	8	25

ATTESTED


 PRINCIPAL

SEMESTER III

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	CE8301	Strength of Materials I	PC	3	3	0	0	3
3.	CE8302	Fluid Mechanics	PC	3	3	0	0	3
4.	CE8351	Surveying	PC	3	3	0	0	3
5.	CE8391	Construction Materials	PC	3	3	0	0	3
6.	CE8392	Engineering Geology	ES	3	3	0	0	3
PRACTICALS								
7.	CE8311	Construction Materials Laboratory	PC	4	0	0	4	2
8.	CE8361	Surveying Laboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills / Listening and Speaking	EEC	2	0	0	2	1
TOTAL				29	19	0	10	24

SEMESTER IV

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8491	Numerical Methods	BS	4	4	0	0	4
2.	CE8401	Construction Techniques and Practices	PC	3	3	0	0	3
3.	CE8402	Strength of Materials II	PC	3	3	0	0	3
4.	CE8403	Applied Hydraulic Engineering	PC	3	3	0	0	3
5.	CE8404	Concrete Technology	PC	3	3	0	0	3
6.	CE8491	Soil Mechanics	PC	3	3	0	0	3
PRACTICALS								
7.	CE8481	Strength of Materials Laboratory	PC	4	0	0	4	2
8.	CE8461	Hydraulic Engineering Laboratory	PC	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
TOTAL				29	19	0	10	24

ATTESTED


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KARAPAKKAM, CHENNAI - 600 027

SEMESTER V

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CE8501	Design of Reinforced Cement Concrete Elements	PC	5	3	2	0	4
2.	CE8502	Structural Analysis I	PC	3	3	0	0	3
3.	EN8491	Water Supply Engineering	PC	3	3	0	0	3
4.	CE8591	Foundation Engineering	PC	3	3	0	0	3
5.		Professional Elective I	PE	3	3	0	0	3
6.		Open Elective I*	OE	3	3	0	0	3
PRACTICALS								
7.	CE8511	Soil Mechanics Laboratory	PC	4	0	0	4	2
8.	CE8512	Water and Waste Water Analysis Laboratory	PC	4	0	0	4	2
9.	CE8513	Survey Camp (2 weeks –During IV Semester)	EEC	0	0	0	0	2
TOTAL				28	18	2	8	25

SEMESTER VI

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CE8601	Design of Steel Structural Elements	PC	5	3	2	0	4
2.	CE8602	Structural Analysis II	PC	3	3	0	0	3
3.	CE8603	Irrigation Engineering	PC	3	3	0	0	3
4.	CE8604	Highway Engineering	PC	3	3	0	0	3
5.	EN8592	Wastewater Engineering	PC	3	3	0	0	3
6.		Professional Elective II	PE	3	3	0	0	3
PRACTICALS								
7.	CE8611	Highway Engineering Laboratory	PC	4	0	0	4	2
8.	CE8612	Irrigation and Environmental Engineering Drawing	PC	4	0	0	4	2
9.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				30	18	2	10	24

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KARAPAKKAM, CHENNAI - 600 097.

SEMESTER VII

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CE8701	Estimation, Costing and Valuation Engineering	PC	3	3	0	0	3
2.	CE8702	Railways, Airports, Docks and Harbour Engineering	PC	3	3	0	0	3
3.	CE8703	Structural Design and Drawing	PC	5	3	0	2	4
4.		Professional Elective III	PE	3	3	0	0	3
5.		Open Elective II*	OE	3	3	0	0	3
PRACTICALS								
6.	CE8711	Creative and Innovative Project (Activity Based - Subject Related)	EEC	4	0	0	4	2
7.	CE8712	Industrial Training (4 weeks During VI Semester – Summer)	EEC	0	0	0	0	2
TOTAL				21	15	0	6	20

SEMESTER VIII

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
PRACTICALS								
3.	CE8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NO. OF CREDITS: 183

*Course from the curriculum of other UG Programmes.

ATTESTED

G. P.

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAYAKKAL, CHENNAI - 600 094

HUMANITIES AND SOCIAL SCIENCES (HS)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3

BASIC SCIENCES (BS)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics – I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics – II	BS	4	4	0	0	4
6.	PH8201	Physics for Civil Engineering	BS	3	3	0	0	3
7.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
8.	MA8491	Numerical Methods	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
4.	BE8251	Basic Electrical and Electronics Engineering	ES	3	3	0	0	3
5.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
6.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
7.	CE8392	Engineering Geology	ES	3	3	0	0	3

PROFESSIONAL CORE (PC)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8211	Computer Aided Building Drawing	PC	4	0	0	4	2
2.	CE8391	Construction Materials	PC	3	3	0	0	3
3.	CE8301	Strength of Materials I	PC	3	3	0	0	3
4.	CE8302	Fluid Mechanics	PC	3	3	0	0	3
5.	CE8351	Surveying	PC	3	3	0	0	3

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6.	CE8481	Strength of Materials Laboratory	PC	4	0	0	4	2
7.	CE8361	Surveying Laboratory	PC	4	0	0	4	2
8.	CE8311	Construction Materials Laboratory	PC	4	0	0	4	2
9.	CE8401	Construction Techniques and Practices	PC	3	3	0	0	3
10.	CE8402	Strength of Materials II	PC	3	3	0	0	3
11.	CE8403	Applied Hydraulic Engineering	PC	3	3	0	0	3
12.	CE8404	Concrete Technology	PC	3	3	0	0	3
13.	CE8491	Soil Mechanics	PC	3	3	0	0	3
14.	CE8461	Hydraulic Engineering Laboratory	PC	4	0	0	4	2
15.	CE8501	Design of Reinforced Cement Concrete Elements	PC	5	3	2	0	4
16.	CE8502	Structural Analysis I	PC	3	3	0	0	3
17.	CE8511	Soil Mechanics Laboratory	PC	4	0	0	4	2
18.	CE8512	Water and Waste Water Analysis Laboratory	PC	4	0	0	4	2
19.	CE8591	Foundation Engineering	PC	3	3	0	0	3
20.	CE8601	Design of Steel Structural Elements	PC	5	3	2	0	4
21.	CE8602	Structural Analysis II	PC	3	3	0	0	3
22.	CE8603	Irrigation Engineering	PC	3	3	0	0	3
23.	CE8604	Highway Engineering	PC	3	3	0	0	3
24.	CE8611	Highway Engineering Laboratory	PC	4	0	0	4	2
25.	CE8612	Irrigation and Environmental Engineering Drawing	PC	4	0	0	4	2
26.	EN8592	Wastewater Engineering	PC	3	3	0	0	3
27.	EN8491	Water Supply Engineering	PC	3	3	0	0	3
28.	CE8701	Estimation, Costing and Valuation Engineering	PC	3	3	0	0	3
29.	CE8702	Railways, Airports, Docks and Harbour Engineering	PC	3	3	0	0	3
30.	CE8703	Structural Design and Drawing	PC	5	3	0	2	4

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EMPLOYABILITY ENHANCEMENT COURSES (EEC)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills / Listening and Speaking	EEC	2	0	0	2	1
2.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
3.	CE8513	Survey Camp (2 weeks – During IV Semester)	EEC	0	0	0	0	2
4.	HS8581	Professional Communication	EEC	2	0	0	2	1
5.	CE8711	Creative and Innovative Project (Activity Based - Subject Related)	EEC	4	0	0	4	2
6.	CE8712	Industrial Training (4 weeks During VI Semester – Summer)	EEC	0	0	0	0	2
7.	CE8811	Project Work	EEC	20	0	0	20	10

**PROFESSIONAL ELECTIVE
SEMESTER V
ELECTIVE - I**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GI8012	Digital Cadastra	PE	3	3	0	0	3
2.	GI8013	Advanced Surveying	PE	3	3	0	0	3
3.	GI8014	Geographic Information System	PE	3	3	0	0	3
4.	GI8015	Geoinformatics Applications for Civil Engineers	PE	3	3	0	0	3
5.	GI8491	Total Station and GPS Surveying	PE	3	3	0	0	3
6.	GE8071	Disaster Management	PE	3	3	0	0	3
7.	GE8074	Human Rights	PE	3	3	0	0	3

**SEMESTER VI
ELECTIVE - II**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8001	Ground Improvement Techniques	PE	3	3	0	0	3
2.	CE8002	Introduction to Soil Dynamics and Machine Foundations	PE	3	3	0	0	3
3.	CE8003	Rock Engineering	PE	3	3	0	0	3
4.	CE8004	Urban Planning and Development	PE	3	3	0	0	3
5.	CE8005	Air Pollution and Control Engineering	PE	3	3	0	0	3
6.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3

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**SEMESTER VII
ELECTIVE – III**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8006	Pavement Engineering	PE	3	3	0	0	3
2.	CE8007	Traffic Engineering and Management	PE	3	3	0	0	3
3.	CE8008	Transport and Environment	PE	3	3	0	0	3
4.	CE8009	Industrial Structures	PE	3	3	0	0	3
5.	CE8010	Environmental and Social Impact Assessment	PE	3	3	0	0	3
6.	CE8011	Design of Prestressed Concrete Structures	PE	3	3	0	0	3
7.	CE8012	Construction Planning and Scheduling	PE	3	3	0	0	3
8.	EN8591	Municipal Solid Waste Management	PE	3	3	0	0	3
9.	GE8077	Total Quality Management	PE	3	3	0	0	3
10.	GE8072	Foundation Skills In Integrated Product Development	PE	3	3	0	0	3

**SEMESTER VIII
ELECTIVE – IV**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8013	Coastal Engineering	PE	3	3	0	0	3
2.	CE8014	Participatory Water Resources Management	PE	3	3	0	0	3
3.	CE8015	Integrated Water Resources Management	PE	3	3	0	0	3
4.	CE8016	Groundwater Engineering	PE	3	3	0	0	3
5.	CE8017	Water Resources Systems Engineering	PE	3	3	0	0	3
6.	CE8018	Geo-Environmental Engineering	PE	3	3	0	0	3
7.	CE8091	Hydrology and Water Resources Engineering	PE	3	3	0	0	3
8.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3

**SEMESTER VIII
ELECTIVE – V**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8019	Computer Aided Design of Structures	PE	3	3	0	0	3
2.	CE8020	Maintenance, Repair and Rehabilitation of Structures	PE	3	3	0	0	3
3.	CE8021	Structural Dynamics and Earthquake Engineering	PE	3	3	0	0	3
4.	CE8022	Prefabricated Structures	PE	3	3	0	0	3
5.	CE8023	Bridge Engineering	PE	3	3	0	0	3
6.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

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S.No	Subject Area	Credits per Semester								Credits Total
		I	II	III	IV	V	VI	VII	VIII	
1	HS	4	7							11
2	BS	12	7	4	4					27
3	ES	9	9	3						21
4	PC		2	16	19	17	20	10		84
5	PE					3	3	3	6	15
6	OE					3		3		6
7	EEC			1	1	2	1	4	10	19
	Total	25	25	24	24	25	24	20	16	183
8	Non-Credit/Mandatory									

SUMMARY

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ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 B.E. COMPUTER SCIENCE AND ENGINEERING
 REGULATIONS – 2017
 CHOICE BASED CREDIT SYSTEM
 I - VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8252	Physics for Information Science	BS	3	3	0	0	3
4.	BE8255	Basic Electrical, Electronics and Measurement Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	CS8251	Programming in C	PC	3	3	0	0	3
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	CS8261	C Programming Laboratory	PC	4	0	0	4	2
TOTAL				28	20	0	8	24

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SEMESTER III

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8351	Discrete Mathematics	BS	4	4	0	0	4
2.	CS8351	Digital Principles and System Design	ES	4	4	0	0	4
3.	CS8391	Data Structures	PC	3	3	0	0	3
4.	CS8392	Object Oriented Programming	PC	3	3	0	0	3
5.	EC8395	Communication Engineering	ES	3	3	0	0	3
PRACTICALS								
6.	CS8381	Data Structures Laboratory	PC	4	0	0	4	2
7.	CS8383	Object Oriented Programming Laboratory	PC	4	0	0	4	2
8.	CS8382	Digital Systems Laboratory	ES	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
TOTAL				31	17	0	14	24

SEMESTER IV

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8402	Probability and Queueing Theory	BS	4	4	0	0	4
2.	CS8491	Computer Architecture	PC	3	3	0	0	3
3.	CS8492	Database Management Systems	PC	3	3	0	0	3
4.	CS8451	Design and Analysis of Algorithms	PC	3	3	0	0	3
5.	CS8493	Operating Systems	PC	3	3	0	0	3
6.	CS8494	Software Engineering	PC	3	3	0	0	3
PRACTICALS								
7.	CS8481	Database Management Systems Laboratory	PC	4	0	0	4	2
8.	CS8461	Operating Systems Laboratory	PC	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
TOTAL				29	19	0	10	24

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SEMESTER V

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8551	Algebra and Number Theory	BS	4	4	0	0	4
2.	CS8591	Computer Networks	PC	3	3	0	0	3
3.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
4.	CS8501	Theory of Computation	PC	3	3	0	0	3
5.	CS8592	Object Oriented Analysis and Design	PC	3	3	0	0	3
6.		Open Elective I	OE	3	3	0	0	3
PRACTICALS								
7.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	CS8582	Object Oriented Analysis and Design Laboratory	PC	4	0	0	4	2
9.	CS8581	Networks Laboratory	PC	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER VI

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CS8651	Internet Programming	PC	3	3	0	0	3
2.	CS8691	Artificial Intelligence	PC	3	3	0	0	3
3.	CS8601	Mobile Computing	PC	3	3	0	0	3
4.	CS8602	Compiler Design	PC	5	3	0	2	4
5.	CS8603	Distributed Systems	PC	3	3	0	0	3
6.		Professional Elective I	PE	3	3	0	0	3
PRACTICALS								
7.	CS8661	Internet Programming Laboratory	PC	4	0	0	4	2
8.	CS8662	Mobile Application Development Laboratory	PC	4	0	0	4	2
9.	CS8611	Mini Project	EEC	2	0	0	2	1
10.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				32	18	0	14	25

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SEMESTER VII

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MG8591	Principles of Management	HS	3	3	0	0	3
2.	CS8792	Cryptography and Network Security	PC	3	3	0	0	3
3.	CS8791	Cloud Computing	PC	3	3	0	0	3
4.		Open Elective II	OE	3	3	0	0	3
5.		Professional Elective II	PE	3	3	0	0	3
6.		Professional Elective III	PE	3	3	0	0	3
PRACTICALS								
7.	CS8711	Cloud Computing Laboratory	PC	4	0	0	4	2
8.	IT8761	Security Laboratory	PC	4	0	0	4	2
TOTAL				26	18	0	8	22

SEMESTER VIII

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
PRACTICALS								
3.	CS8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NO. OF CREDITS: 185

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G. P. Rao

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HUMANITIES AND SOCIAL SCIENCES (HS)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
4.	MG8591	Principles of Management	HS	3	3	0	0	3

BASIC SCIENCES (BS)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8252	Physics for Information Science	BS	3	3	0	0	3
7.	MA8351	Discrete Mathematics	BS	4	4	0	0	4
8.	MA8402	Probability and Queueing Theory	BS	4	4	0	0	4
9.	MA8551	Algebra and Number Theory	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
4.	BE8255	Basic Electrical, Electronics and Measurement Engineering	ES	3	3	0	0	3
5.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
6.	CS8351	Digital Principles and System Design	ES	4	4	0	0	4
7.	EC8395	Communication Engineering	ES	3	3	0	0	3
8.	CS8382	Digital Systems Laboratory	ES	4	0	0	4	2

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PROFESSIONAL CORE (PC)

Sl. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8251	Programming in C	PC	3	3	0	0	3
2.	CS8261	C Programming Laboratory	PC	4	0	0	4	2
3.	CS8391	Data Structures	PC	3	3	0	0	3
4.	CS8392	Object Oriented Programming	PC	3	3	0	0	3
5.	CS8381	Data Structures Laboratory	PC	4	0	0	4	2
6.	CS8383	Object Oriented Programming Laboratory	PC	4	0	0	4	2
7.	CS8491	Computer Architecture	PC	3	3	0	0	3
8.	CS8492	Database Management Systems	PC	3	3	0	0	3
9.	CS8451	Design and Analysis of Algorithms	PC	3	3	0	0	3
10.	CS8493	Operating Systems	PC	3	3	0	0	3
11.	CS8494	Software Engineering	PC	3	3	0	0	3
12.	CS8481	Database Management Systems Laboratory	PC	4	0	0	4	2
13.	CS8461	Operating Systems Laboratory	PC	4	0	0	4	2
14.	CS8591	Computer Networks	PC	3	3	0	0	3
15.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
16.	CS8501	Theory of Computation	PC	3	3	0	0	3
17.	CS8592	Object Oriented Analysis and Design	PC	3	3	0	0	3
18.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
19.	CS8582	Object Oriented Analysis and Design Laboratory	PC	4	0	0	4	2
20.	CS8581	Networks Laboratory	PC	4	0	0	4	2
21.	CS8651	Internet Programming	PC	3	3	0	0	3
22.	CS8691	Artificial Intelligence	PC	3	3	0	0	3
23.	CS8601	Mobile Computing	PC	3	3	0	0	3
24.	CS8602	Compiler Design	PC	5	3	0	2	4
25.	CS8603	Distributed Systems	PC	3	3	0	0	3
26.	CS8661	Internet Programming Laboratory	PC	4	0	0	4	2
27.	CS8662	Mobile Application Development Laboratory	PC	4	0	0	4	2
28.	CS8792	Cryptography and Network Security	PC	3	3	0	0	3
29.	CS8791	Cloud Computing	PC	3	3	0	0	3
30.	CS8711	Cloud Computing Laboratory	PC	4	0	0	4	2
31.	IT8761	Security Laboratory	PC	4	0	0	4	2

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PROFESSIONAL ELECTIVES (PE)

**SEMESTER VI
ELECTIVE - I**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8075	Data Warehousing and Data Mining	PE	3	3	0	0	3
2.	IT8076	Software Testing	PE	3	3	0	0	3
3.	IT8072	Embedded Systems	PE	3	3	0	0	3
4.	CS8072	Agile Methodologies	PE	3	3	0	0	3
5.	CS8077	Graph Theory and Applications-	PE	3	3	0	0	3
6.	IT8071	Digital Signal Processing	PE	3	3	0	0	3
7.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3

**SEMESTER VII
ELECTIVE - II**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8091	Big Data Analytics	PE	3	3	0	0	3
2.	CS8082	Machine Learning Techniques	PE	3	3	0	0	3
3.	CS8092	Computer Graphics and Multimedia	PE	3	3	0	0	3
4.	IT8075	Software Project Management	PE	3	3	0	0	3
5.	CS8081	Internet of Things	PE	3	3	0	0	3
6.	IT8074	Service Oriented Architecture	PE	3	3	0	0	3
7.	GE8077	Total Quality Management	PE	3	3	0	0	3

**SEMESTER VII
ELECTIVE - III**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8083	Multi-core Architectures and Programming	PE	3	3	0	0	3
2.	CS8079	Human Computer Interaction	PE	3	3	0	0	3
3.	CS8073	C# and .Net Programming	PE	3	3	0	0	3
4.	CS8088	Wireless Adhoc and Sensor Networks	PE	3	3	0	0	3
5.	CS8071	Advanced Topics on Databases	PE	3	3	0	0	3
6.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3
7.	GE8074	Human Rights	PE	3	3	0	0	3
8.	GE8071	Disaster Management	PE	3	3	0	0	3

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 KA-1697.

**SEMESTER VIII
ELECTIVE - IV**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8093	Digital Image Processing	PE	3	3	0	0	3
2.	CS8085	Social Network Analysis	PE	3	3	0	0	3
3.	IT8073	Information Security	PE	3	3	0	0	3
4.	CS8087	Software Defined Networks	PE	3	3	0	0	3
5.	CS8074	Cyber Forensics	PE	3	3	0	0	3
6.	CS8086	Soft Computing	PE	3	3	0	0	3
7.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3

**SEMESTER VIII
ELECTIVE - V**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8080	Information Retrieval Techniques	PE	3	3	0	0	3
2.	CS8078	Green Computing	PE	3	3	0	0	3
3.	CS8076	GPU Architecture and Programming	PE	3	3	0	0	3
4.	CS8084	Natural Language Processing	PE	3	3	0	0	3
5.	CS8001	Parallel Algorithms	PE	3	3	0	0	3
6.	IT8077	Speech Processing	PE	3	3	0	0	3
7.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

Sl. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
2.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
3.	CS8611	Mini Project	EEC	2	0	0	2	1
4.	HS8581	Professional Communication	EEC	2	0	0	2	1
5.	CS8811	Project Work	EEC	20	0	0	20	10

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KARAPAKKAM, CHENNAI - 600 097.**

SUMMARY

S.NO.	SUBJECT AREA	CREDITS AS PER SEMESTER								CREDITS TOTAL	Percentage
		I	II	III	IV	V	VI	VII	VIII		
1.	HS	4	7					3		14	7.60%
2.	BS	12	7	4	4	4				31	16.8%
3.	ES	9	5	9						23	12.5%
4.	PC		5	10	19	18	20	10		82	44.5%
5.	PE						3	6	6	15	8.15%
6.	OE					3		3		6	3.3%
7.	EEC			1	1		2		10	14	7.65%
	Total	25	24	24	24	25	25	22	16	185	
8.	Non Credit / Mandatory										

ATTESTED


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KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, S.P.O. #24-010 087.

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 B.E. ELECTRICAL AND ELECTRONICS ENGINEERING
 REGULATIONS – 2017
 CHOICE BASED CREDIT SYSTEM
 I TO VIII SEMESTERS CURRICULA & SYLLABI

SEMESTER I

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
4.	BE8252	Basic Civil and Mechanical Engineering	ES	4	4	0	0	4
5.	EE8251	Circuit Theory	PC	4	2	2	0	3
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	EE8261	Electric Circuits Laboratory	PC	4	0	0	4	2
TOTAL				30	20	2	8	25

ATTESTED

7


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 KARAPAKKAM, CHENNAI - 600 097.

SEMESTER III

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	EE8351	Digital Logic Circuits	PC	4	2	2	0	3
3.	EE8391	Electromagnetic Theory	PC	4	2	2	0	3
4.	EE8301	Electrical Machines - I	PC	4	2	2	0	3
5.	EC8353	Electron Devices and Circuits	ES	3	3	0	0	3
6.	ME8792	Power Plant Engineering	ES	3	3	0	0	3
PRACTICALS								
7.	EC8311	Electronics Laboratory	ES	4	0	0	4	2
8.	EE8311	Electrical Machines Laboratory - I	PC	4	0	0	4	2
TOTAL				30	16	6	8	23

SEMESTER IV

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8491	Numerical Methods	BS	4	4	0	0	4
2.	EE8401	Electrical Machines - II	PC	4	2	2	0	3
3.	EE8402	Transmission and Distribution	PC	3	3	0	0	3
4.	EE8403	Measurements and Instrumentation	PC	3	3	0	0	3
5.	EE8451	Linear Integrated Circuits and Applications	PC	3	3	0	0	3
6.	IC8451	Control Systems	PC	5	3	2	0	4
PRACTICALS								
7.	EE8411	Electrical Machines Laboratory - II	PC	4	0	0	4	2
8.	EE8461	Linear and Digital Integrated Circuits Laboratory	PC	4	0	0	4	2
9.	EE8412	Technical Seminar	EEC	2	0	0	2	1
TOTAL				32	18	4	10	25

ATTESTED

G. P. S.

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KARAPAKKAM, Madurai - 625 017.**

SEMESTER V

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EE8501	Power System Analysis	PC	3	3	0	0	3
2.	EE8551	Microprocessors and Microcontrollers	PC	3	3	0	0	3
3.	EE8552	Power Electronics	PC	3	3	0	0	3
4.	EE8591	Digital Signal Processing	PC	4	2	2	0	3
5.	CS8392	Object Oriented Programming	ES	3	3	0	0	3
6.		Open Elective I*	OE	3	3	0	0	3
PRACTICALS								
7.	EE8511	Control and Instrumentation Laboratory	PC	4	0	0	4	2
8.	HS8581	Professional Communication	EEC	2	0	0	2	1
9.	CS8383	Object Oriented Programming Laboratory	ES	4	0	0	4	2
TOTAL				29	17	2	10	23

SEMESTER VI

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EE8601	Solid State Drives	PC	3	3	0	0	3
2.	EE8602	Protection and Switchgear	PC	3	3	0	0	3
3.	EE8691	Embedded Systems	ES	3	3	0	0	3
4.		Professional Elective I	PE	3	3	0	0	3
5.		Professional Elective II	PE	3	3	0	0	3
PRACTICALS								
6.	EE8661	Power Electronics and Drives Laboratory	PC	4	0	0	4	2
7.	EE8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	EE8611	Mini Project	EEC	4	0	0	4	2
TOTAL				27	15	0	12	21

ATTESTED



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SEMESTER VII

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EE8701	High Voltage Engineering	PC	3	3	0	0	3
2.	EE8702	Power System Operation and Control	PC	3	3	0	0	3
3.	EE8703	Renewable Energy Systems	PC	3	3	0	0	3
4.		Open Elective II*	OE	3	3	0	0	3
5.		Professional Elective III	PE	3	3	0	0	3
6.		Professional Elective IV	PE	3	3	0	0	3
PRACTICALS								
7.	EE8711	Power System Simulation Laboratory	PC	4	0	0	4	2
8.	EE8712	Renewable Energy Systems Laboratory	PC	4	0	0	4	2
TOTAL				26	18	0	8	22

SEMESTER VIII

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective V	PE	3	3	0	0	3
2.		Professional Elective VI	PE	3	3	0	0	3
PRACTICALS								
3.	EE8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NO. OF CREDITS: 180

*Course from the curriculum of other UG Programmes.

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PROFESSIONAL ELECTIVE - I (VI SEMESTER)

S.NO.	COURSE CODE	COURSE TITLE	ATEGORY	ONTACT PERIODS	L	T	P	C
1.	IC8651	Advanced Control System	PE	4	2	2	0	3
2.	EE8001	Visual Languages and Applications	PE	3	3	0	0	3
3.	EE8002	Design of Electrical Apparatus	PE	3	3	0	0	3
4.	EE8003	Power Systems Stability	PE	3	3	0	0	3
5.	EE8004	Modern Power Converters	PE	3	3	0	0	3
6.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE - II (VI SEMESTER)

1.	RO8591	Principles of Robotics	PE	3	3	0	0	3
2.	EE8005	Special Electrical Machines	PE	3	3	0	0	3
3.	EE8006	Power Quality	PE	3	3	0	0	3
4.	EE8007	EHVAC Transmission	PE	3	3	0	0	3
5.	EC8395	Communication Engineering	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE - III (VII SEMESTER)

1.	GE8071	Disaster Management	PE	3	3	0	0	3
2.	GE8074	Human Rights	PE	3	3	0	0	3
3.	MG8491	Operations Research	PE	3	3	0	0	3
4.	MA8391	Probability and Statistics	PE	4	4	0	0	4
5.	EI8075	Fibre Optics and Laser Instrumentation	PE	3	3	0	0	3
6.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE - IV (VII SEMESTER)

1.	EE8008	System Identification and Adaptive Control	PE	3	3	0	0	3
2.	CS8491	Computer Architecture	PE	3	3	0	0	3
3.	EE8009	Control of Electrical Drives	PE	3	3	0	0	3
4.	EC8095	VLSI Design	PE	3	3	0	0	3
5.	EE8010	Power Systems Transients	PE	3	3	0	0	3
6.	GE8077	Total Quality Management	PE	3	3	0	0	3

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PROFESSIONAL ELECTIVE – V (VIII SEMESTER)

1.	EE8011	Flexible AC Transmission Systems	PE	3	3	0	0	3
2.	EE8012	Soft Computing Techniques	PE	3	3	0	0	3
3.	EE8013	Power Systems Dynamics	PE	3	3	0	0	3
4.	EE8014	SMPS and UPS	PE	3	3	0	0	3
5.	EE8015	Electric Energy Generation, Utilization and Conservation	PE	3	3	0	0	3
6.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3
7.	MG8591	Principles of Management	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE – VI (VIII SEMESTER)

1.	EE8016	Energy Management and Auditing	PE	3	3	0	0	3
2.	CS8391	Data Structures	PE	3	3	0	0	3
3.	EE8017	High Voltage Direct Current Transmission	PE	3	3	0	0	3
4.	EE8018	Microcontroller Based System Design	PE	3	3	0	0	3
5.	EE8019	Smart Grid	PE	3	3	0	0	3
6.	EI8073	Biomedical Instrumentation	PE	3	3	0	0	3
7.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

*Professional Electives are grouped according to elective number as was done previously.

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HUMANITIES AND SOCIALSCIENCES (HS)

S.No	COURSE CODE	COURSE TITLE	ATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3

BASIC SCIENCES (BS)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8253	Physics For Electronics Engineering	BS	3	3	0	0	3
7.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
8.	MA8491	Numerical Methods	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

S.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and	ES		0	0	4	2

		Python programming Laboratory		4				
4.	BE8252	Basic Civil and Mechanical Engineering	ES	4	4	0	0	4
5.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
6.	EC8353	Electron Devices and Circuits	ES	3	3	0	0	3
7.	ME8792	Power Plant Engineering	ES	3	3	0	0	3
8.	EC8311	Electronics Laboratory	ES	4	0	0	4	2
9.	CS8382	Object Oriented Programming	ES	3	3	0	0	3
10.	CS8383	Object Oriented Programming Laboratory	ES	4	0	0	4	2
11.	EE8691	Embedded Systems	ES	3	3	0	0	3

PROFESSIONAL CORE (PC)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EE8251	Circuit Theory	PC	4	2	2	0	3
2.	EE8261	Electric Circuits Laboratory	PC	4	0	0	4	2
3.	EE8351	Digital Logic Circuits	PC	4	2	2	0	3
4.	EE8391	Electromagnetic Theory	PC	4	2	2	0	3
5.	EE8301	Electrical Machines - I	PC	4	2	2	0	3
6.	EE8311	Electrical Machines Laboratory - I	PC	4	0	0	4	2
7.	EE8401	Electrical Machines - II	PC	4	2	2	0	3
8.	EE8402	Transmission and Distribution	PC	3	3	0	0	3
9.	EE8403	Measurements and Instrumentation	PC	3	3	0	0	3
10.	EE8451	Linear Integrated Circuits and Applications	PC	3	3	0	0	3
11.	IC8451	Control Systems	PC	5	3	2	0	4
12.	EE8411	Electrical Machines Laboratory II	PC	4	0	0	4	2

13.	EE8461	Linear and Digital Integrated Circuits Laboratory	PC	4	0	0	4	2
14.	EE8501	Power System Analysis	PC	3	3	0	0	3
15.	EE8551	Microprocessors and Microcontrollers	PC	3	3	0	0	3
16.	EE8552	Power Electronics	PC	3	3	0	0	3
17.	EE8591	Digital Signal Processing	PC	4	2	2	0	3
18.	EE8511	Control and Instrumentation Laboratory	PC	4	0	0	4	2
19.	EE8601	Solid State Drives	PC	3	3	0	0	3
20.	EE8602	Protection and Switchgear	PC	3	3	0	0	3
21.	EE8661	Power Electronics and Drives Laboratory	PC	4	0	0	4	2
22.	EE8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
23.	EE8701	High Voltage Engineering	PC	3	3	0	0	3
24.	EE8702	Power System Operation and Control	PC	3	3	0	0	3
25.	EE8703	Renewable Energy Systems	PC	3	3	0	0	3
26.	EE8711	Power System Simulation Laboratory	PC	4	0	0	4	2
27.	EE8712	Renewable Energy Systems Laboratory	PC	4	0	0	4	2

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EE8412	Technical seminar	EEC	2	0	0	2	1
2.	HS8581	Professional Communication	EEC	2	0	0	2	1
3.	EE8611	Mini Project	EEC	4	0	0	4	2
4.	EE8811	Project work	EEC	20	0	0	20	10

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KARAPAKKAM, CHENNAI - 600 097.

S.NO.	SUBJECT AREA	CREDITS AS PER SEMESTER								CREDITS TOTAL
		I	II	III	IV	V	VI	VII	VIII	
1.	HS	4	7	-	-	-	-	-	-	11
2.	BS	12	7	4	4	-	-	-	-	27
3.	ES	9	6	8	-	5	3	-	-	31
4.	PC	-	5	11	20	14	10	13	-	73
5.	PE						6	6	6	18
6.	OE					3	-	3		6
7.	EEC				1	1	2		10	14
	Total	25	25	23	25	23	21	22	16	180
	Non Credit / Mandatory	-	-	-	-	-	-	-	-	0

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PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 B.E. ELECTRONICS AND COMMUNICATION ENGINEERING
 REGULATIONS – 2017
 CHOICE BASED CREDIT SYSTEM
 I - VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
4.	BE8254	Basic Electrical and Instrumentation Engineering	ES	3	3	0	0	3
5.	EC8251	Circuit Analysis	PC	4	4	0	0	4
6.	EC8252	Electronic Devices	PC	3	3	0	0	3
PRACTICALS								
7.	EC8261	Circuits and Devices Laboratory	PC	4	0	0	4	2
8.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
TOTAL				29	21	0	8	25

ATTESTED


PRINCIPAL
 KCG COLLEGE OF TECHNOLOGY
 KARAIKUDI - 626 007.

SEMESTER III

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8352	Linear Algebra and Partial Differential Equations	BS	4	4	0	0	4
2.	EC8393	Fundamentals of Data Structures In C	ES	3	3	0	0	3
3.	EC8351	Electronic Circuits- I	PC	3	3	0	0	3
4.	EC8352	Signals and Systems	PC	4	4	0	0	4
5.	EC8392	Digital Electronics	PC	3	3	0	0	3
6.	EC8391	Control Systems Engineering	PC	3	3	0	0	3
PRACTICALS								
7.	EC8381	Fundamentals of Data Structures in C Laboratory	ES	4	0	0	4	2
8.	EC8361	Analog and Digital Circuits Laboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening &Speaking	EEC	2	0	0	2	1
TOTAL				30	20	0	10	25

SEMESTER IV

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8451	Probability and Random Processes	BS	4	4	0	0	4
2.	EC8452	Electronic Circuits II	PC	3	3	0	0	3
3.	EC8491	Communication Theory	PC	3	3	0	0	3
4.	EC8451	Electromagnetic Fields	PC	4	4	0	0	4
5.	EC8453	Linear Integrated Circuits	PC	3	3	0	0	3
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
PRACTICALS								
7.	EC8461	Circuits Design and Simulation Laboratory	PC	4	0	0	4	2
8.	EC8462	Linear Integrated Circuits Laboratory	PC	4	0	0	4	2
TOTAL				28	20	0	8	24

ATTESTED

G. P.
PRINCIPAL

KCG COLLEGE OF ENGINEERING AND TECHNOLOGY
KARUNATHURAI
6097

SEMESTER V

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EC8501	Digital Communication	PC	3	3	0	0	3
2.	EC8553	Discrete-Time Signal Processing	PC	4	4	0	0	4
3.	EC8552	Computer Architecture and Organization	PC	3	3	0	0	3
4.	EC8551	Communication Networks	PC	3	3	0	0	3
5.		Professional Elective I	PE	3	3	0	0	3
6.		Open Elective I	OE	3	3	0	0	3
PRACTICALS								
7.	EC8562	Digital Signal Processing Laboratory	PC	4	0	0	4	2
8.	EC8561	Communication Systems Laboratory	PC	4	0	0	4	2
9.	EC8563	Communication Networks Laboratory	PC	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER VI

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
2.	EC8095	VLSI Design	PC	3	3	0	0	3
3.	EC8652	Wireless Communication	PC	3	3	0	0	3
4.	MG8591	Principles of Management	HS	3	3	0	0	3
5.	EC8651	Transmission Lines and RF Systems	PC	3	3	0	0	3
6.		Professional Elective -II	PE	3	3	0	0	3
PRACTICALS								
7.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	EC8661	VLSI Design Laboratory	PC	4	0	0	4	2
9.	EC8611	Technical Seminar	EEC	2	0	0	2	1
10.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				30	18	0	12	24

ATTESTED

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K

07.

SEMESTER VII

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EC8701	Antennas and Microwave Engineering	PC	3	3	0	0	3
2.	EC8751	Optical Communication	PC	3	3	0	0	3
3.	EC8791	Embedded and Real Time Systems	PC	3	3	0	0	3
4.	EC8702	Ad hoc and Wireless Sensor Networks	PC	3	3	0	0	3
5.		Professional Elective -III	PE	3	3	0	0	3
6.		Open Elective - II	OE	3	3	0	0	3
PRACTICALS								
7.	EC8711	Embedded Laboratory	PC	4	0	0	4	2
8.	EC8761	Advanced Communication Laboratory	PC	4	0	0	4	2
TOTAL				26	18	0	8	22

SEMESTER VIII

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
PRACTICALS								
3.	EC8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NO. OF CREDITS: 186

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KASARAGODUR 574302

HUMANITIES AND SOCIALSCIENCES (HS)

SI.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
4.	MG8591	Principles of Management	HS	3	3	0	0	3

BASIC SCIENCES (BS)

SI.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
7.	MA8352	Linear Algebra and Partial Differential Equations	BS	4	4	0	0	4
8.	MA8451	Probability and Random Processes	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
4.	BE8254	Basic Electrical and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
6.	EC8393	Fundamentals of Data Structures In C	ES	3	3	0	0	3
7.	EC8381	Fundamentals of Data Structures in C Laboratory	ES	4	0	0	4	2

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PROFESSIONAL CORE (PC)

SI.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8251	Circuit Analysis	PC	4	4	0	0	4
2.	EC8252	Electronic Devices	PC	3	3	0	0	3
3.	EC8261	Circuits and Devices Lab	PC	4	0	0	4	2
4.	EC8351	Electronic Circuits- I	PC	3	3	0	0	3
5.	EC8352	Signals and Systems	PC	4	4	0	0	4
6.	EC8392	Digital Electronics	PC	3	3	0	0	3
7.	EC8391	Control System Engineering	PC	3	3	0	0	3
8.	EC8361	Analog and Digital Circuits Laboratory	PC	4	0	0	4	2
9.	EC8452	Electronic Circuits II	PC	3	3	0	0	3
10.	EC8491	Communication Theory	PC	3	3	0	0	3
11.	EC8451	Electromagnetic Fields	PC	4	4	0	0	4
12.	EC8453	Linear Integrated Circuits	PC	3	3	0	0	3
13.	EC8461	Circuits Design and Simulation Laboratory	PC	4	0	0	4	2
14.	EC8462	Linear Integrated Circuits Laboratory	PC	4	0	0	4	2
15.	EC8501	Digital Communication	PC	3	3	0	0	3
16.	EC8553	Discrete-Time Signal Processing	PC	4	4	0	0	4
17.	EC8651	Transmission Lines and RF Systems	PC	3	3	0	0	3
18.	EC8552	Computer Architecture and Organization	PC	3	3	0	0	3
19.	EC8551	Communication Networks	PC	3	3	0	0	3
20.	EC8562	Digital Signal Processing Laboratory	PC	4	0	0	4	2
21.	EC8561	Communication Systems Laboratory	PC	4	0	0	4	2
22.	EC8563	Communication Networks Laboratory	PC	4	0	0	4	2
23.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
24.	EC8095	VLSI Design	PC	3	3	0	0	3
25.	EC8652	Wireless Communication	PC	3	3	0	0	3
26.	EC8661	VLSI Design Laboratory	PC	4	0	0	4	2

27.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
28.	EC8701	Antennas and Microwave Engineering	PC	3	3	0	0	3
29.	EC8751	Optical Communication	PC	3	3	0	0	3
30.	EC8791	Embedded and Real Time Systems	PC	3	3	0	0	3
31.	EC8702	Ad hoc and Wireless Sensor Networks	PC	3	3	0	0	3
32.	EC8711	Embedded Laboratory	PC	4	0	0	4	2
33.	EC8761	Advanced Communication Laboratory	PC	4	0	0	4	2

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**PROFESSIONAL ELECTIVES (PE)
SEMESTER V
ELECTIVE I**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8392	Object Oriented Programming	PE	3	3	0	0	3
2.	EC8073	Medical Electronics	PE	3	3	0	0	3
3.	CS8493	Operating Systems	PE	3	3	0	0	3
4.	EC8074	Robotics and Automation	PE	3	3	0	0	3
5.	EC8075	Nano Technology and Applications	PE	3	3	0	0	3
6.	GE8074	Human Rights	PE	3	3	0	0	3
7.	GE8077	Total Quality Management	PE	3	3	0	0	3

**SEMESTER VI
ELECTIVE II**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8792	Cryptography and Network Security	PE	3	3	0	0	3
2.	EC8091	Advanced Digital Signal Processing	PE	3	3	0	0	3
3.	EC8001	MEMS and NEMS	PE	3	3	0	0	3
4.	EC8002	Multimedia Compression and Communication	PE	3	3	0	0	3
5.	EC8003	CMOS Analog IC Design	PE	3	3	0	0	3
6.	EC8004	Wireless Networks	PE	3	3	0	0	3
7.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3

**SEMESTER VII
ELECTIVE III**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8092	Advanced Wireless Communication	PE	3	3	0	0	3
2.	EC8071	Cognitive Radio	PE	3	3	0	0	3
3.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3
4.	CS8082	Machine Learning Techniques	PE	3	3	0	0	3
5.	EC8005	Electronics Packaging and Testing	PE	3	3	0	0	3
6.	EC8006	Mixed Signal IC Design	PE	3	3	0	0	3
7.	GE8071	Disaster Management	PE	3	3	0	0	3

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**SEMESTER VIII
ELECTIVE IV**

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8072	Electro Magnetic Interference and Compatibility	PE	3	3	0	0	3
2.	EC8007	Low power SoC Design	PE	3	3	0	0	3
3.	EC8008	Photonic Networks	PE	3	3	0	0	3
4.	EC8009	Compressive Sensing	PE	3	3	0	0	3
5.	EC8093	Digital Image Processing	PE	3	3	0	0	3
6.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3

**SEMESTER VIII
ELECTIVE V**

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8010	Video Analytics	PE	3	3	0	0	3
2.	EC8011	DSP Architecture and Programming	PE	3	3	0	0	3
3.	EC8094	Satellite Communication	PE	3	3	0	0	3
4.	CS8086	Soft Computing	PE	3	3	0	0	3
5.	IT8006	Principles of Speech Processing	PE	3	3	0	0	3
6.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

*Professional Electives are grouped according to elective number as was done previously.

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

S.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
2.	EC8611	Technical Seminar	EEC	2	0	0	2	1
3.	HS8581	Professional Communication	EEC	2	0	0	2	1
4.	EC8811	Project Work	EEC	20	0	0	20	10

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KAPPA

SUMMARY

S.NO.	SUBJECT AREA	CREDITS AS PER SEMESTER								CREDITS TOTAL	Percentage
		I	II	III	IV	V	VI	VII	VIII		
1.	HS	4	4		3		3			14	7.56%
2.	BS	12	7	4	4					27	14.6%
3.	ES	9	5	5						19	10.27%
4.	PC		9	15	17	19	16	16		92	50%
5.	PE					3	3	3	6	15	8.10%
6.	OE					3		3		6	3.24%
7.	EEC			1			2		10	13	6.48%
	Total	25	25	25	24	25	24	22	16	186	
8.	Non Credit / Mandatory										

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ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
I TO VIII SEMESTERS CURRICULA & SYLLABI

SEMESTER I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
4.	BE8252	Basic Civil and Mechanical Engineering	ES	4	4	0	0	4
5.	EE8251	Circuit Theory	PC	4	2	2	0	3
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	EE8261	Electric Circuits Laboratory	PC	4	0	0	4	2
TOTAL				30	20	2	8	25

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SEMESTER III

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	EC8353	Electron Devices and Circuits	ES	3	3	0	0	3
3.	EE8351	Digital Logic Circuits	PC	4	2	2	0	3
4.	EI8351	Electrical Measurements	PC	4	2	2	0	3
5.	EI8352	Transducers Engineering	PC	3	3	0	0	3
6.	CS8392	Object Oriented Programming	ES	3	3	0	0	3
PRACTICALS								
7.	EI8361	Measurements and Transducers Laboratory	PC	4	0	0	4	2
8.	CS8363	Object Oriented Programming Laboratory	ES	4	0	0	4	2
TOTAL				29	17	4	8	23

SEMESTER IV

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8491	Numerical Methods	BS	4	4	0	0	4
2.	EI8451	Electrical Machines	ES	3	3	0	0	3
3.	EI8452	Industrial Instrumentation - I	PC	3	3	0	0	3
4.	EE8451	Linear Integrated Circuits and Applications	PC	3	3	0	0	3
5.	IC8451	Control Systems	PC	5	3	2	0	4
6.	EC8395	Communication Engineering	ES	3	3	0	0	3
PRACTICALS								
7.	EI8461	Devices and Machines Laboratory	PC	4	0	0	4	2
8.	EE8461	Linear and Digital Integrated Circuits Laboratory	PC	4	0	0	4	2
TOTAL				29	19	2	8	24

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KARAPAKKAM, CHENNAI - 600 097.

SEMESTER V

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EI8551	Analytical Instruments	PC	3	3	0	0	3
2.	EI8552	Industrial Instrumentation - II	PC	3	3	0	0	3
3.	EI8553	Process Control	PC	4	2	2	0	3
4.	EE8551	Microprocessors and Microcontrollers	PC	3	3	0	0	3
5.	EE8591	Digital Signal Processing	PC	4	2	2	0	3
6.		Open Elective I*	OE	3	3	0	0	3
PRACTICALS								
7.	EI8561	Industrial Instrumentation Laboratory	PC	4	0	0	4	2
8.	EE8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
TOTAL				28	16	4	8	22

SEMESTER VI

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EI8651	Logic and Distributed Control System	PC	3	3	0	0	3
2.	EI8691	Computer Control of Processes	PC	3	3	0	0	3
3.	CS8391	Data Structures	ES	3	3	0	0	3
4.	EI8692	Electronic Instrumentation	PC	3	3	0	0	3
5.		Professional Elective I	PE	3	3	0	0	3
6.		Professional Elective II	PE	3	3	0	0	3
PRACTICALS								
7.	CS8381	Data Structures Laboratory	ES	4	0	0	4	2
8.	EI8661	Process Control Laboratory	PC	4	0	0	4	2
9.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				28	18	0	10	23

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SEMESTER VII

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EI8751	Industrial Data Networks	PC	3	3	0	0	3
2.	EE8691	Embedded Systems	PC	3	3	0	0	3
3.	EC8093	Digital Image Processing	PC	3	3	0	0	3
4.		Professional Elective III	PE	3	3	0	0	3
5.		Professional Elective IV	PE	3	3	0	0	3
6.		Open Elective II*	OE	3	3	0	0	3
PRACTICALS								
7.	EI8761	Industrial Automation Laboratory	PC	4	0	0	4	2
8.	EI8762	Instrumentation System Design Laboratory	PC	4	0	0	4	2
TOTAL				26	18	0	8	22

SEMESTER VIII

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective V	PE	3	3	0	0	3
2.		Professional Elective VI	PE	3	3	0	0	3
PRACTICALS								
3.	EI8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NO. OF CREDITS:180

*Course from the curriculum of other UG Programmes.

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PROFESSIONAL ELECTIVE – I (VI SEMESTER)

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EE8072	MEMS and Nano Science	PE	3	3	0	0	3
2.	EI8077	Power Electronics and Drives	PE	3	3	0	0	3
3.	IC8072	System Identification	PE	4	2	2	0	3
4.	EI8074	Computer Networks	PE	4	2	2	0	3
5.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE – II (VI SEMESTER)

1.	EI8071	Adaptive Control	PE	4	2	2	0	3
2.	EI8072	Advanced Instrumentation Systems	PE	3	3	0	0	3
3.	EE8071	Applied Soft Computing	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE – III (VII SEMESTER)

1.	EI8075	Fibre Optics and Laser Instrumentation	PE	3	3	0	0	3
2.	EE8391	Electromagnetic Theory	PE	4	2	2	0	3
3.	GE8071	Disaster Management	PE	3	3	0	0	3
4.	GE8074	Human Rights	PE	3	3	0	0	3
5.	MG8491	Operations Research	PE	3	3	0	0	3
6.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE – IV (VII SEMESTER)

1.	EI8092	Thermal Power Plant Instrumentation	PE	3	3	0	0	3
2.	EC8091	Advanced Digital Signal Processing	PE	3	3	0	0	3
3.	EI8076	Optimal Control	PE	4	2	2	0	3
4.	TL8071	Radar and Navigational Aids	PE	3	3	0	0	3
5.	GE8077	Total Quality Management	PE	3	3	0	0	3
6.	EC8095	VLSI Design	PE	3	3	0	0	3

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KARAPAKKAM, C. INDIA - 606 097.**

PROFESSIONAL ELECTIVE – V (VIII SEMESTER)

1.	EI8073	Biomedical Instrumentation	PE	3	3	0	0	3
2.	EI8091	Instrumentation in Petrochemical Industries	PE	3	3	0	0	3
3.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3
4.	MG8591	Principles of Management	PE	3	3	0	0	3

PROFESSIONAL ELECTIVE – VI (VIII SEMESTER)

1.	EI8078	Project Management and Finance	PE	3	3	0	0	3
2.	IC8071	Advanced Process Control	PE	4	2	2	0	3
3.	EI8093	Unit Operation and Control	PE	3	3	0	0	3
4.	EI8079	Robotics and Automation	PE	3	3	0	0	3
5.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

*Professional Electives are grouped according to elective number as was done previously.

HUMANITIES AND SOCIALSCIENCES (HS)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3

BASIC SCIENCES (BS)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3

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4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
7.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
8.	MA8491	Numerical Methods	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

S.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python programming Laboratory	ES	4	0	0	4	2
4.	BE8252	Basic Civil and Mechanical Engineering	ES	4	4	0	0	4
5.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
6.	EC8353	Electron Devices and Circuits	ES	3	3	0	0	3
7.	CS8392	Object Oriented Programming	ES	3	3	0	0	3
8.	CS8383	Object Oriented Programming Laboratory	ES	4	0	0	4	2
9.	EI8451	Electrical Machines	ES	3	3	0	0	3
10.	EC8395	Communication Engineering	ES	3	3	0	0	3
11.	CS8391	Data Structures	ES	3	3	0	0	3
12.	CS8381	Data Structures Laboratory	ES	4	0	0	4	2

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PROFESSIONAL CORE (PC)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EE8251	Circuit Theory	PC	4	2	2	0	3
2.	EE8261	Electric Circuits Laboratory	PC	4	0	0	4	2
3.	EE8351	Digital Logic Circuits	PC	4	2	2	0	3
4.	EI8351	Electrical Measurements	PC	4	2	2	0	3
5.	EI8352	Transducers Engineering	PC	3	3	0	0	3
6.	EI8361	Measurements and Transducers Laboratory	PC	4	0	0	4	2
7.	EI8452	Industrial Instrumentation - I	PC	3	3	0	0	3
8.	EE8451	Linear integrated Circuits and Applications	PC	3	3	0	0	3
9.	IC8451	Control Systems	PC	5	3	2	0	4
10.	EI8461	Devices and Machines Laboratory	PC	4	0	0	4	2
11.	EE8461	Linear and Digital integrated Circuits Laboratory	PC	4	0	0	4	2
12.	EI8551	Analytical Instruments	PC	3	3	0	0	3
13.	EI8552	Industrial Instrumentation - II	PC	3	3	0	0	3
14.	EI8553	Process Control	PC	4	2	2	0	3
15.	EE8551	Microprocessors and Microcontrollers	PC	3	3	0	0	3
16.	EE8591	Digital Signal Processing	PC	4	2	2	0	3
17.	EI8561	Industrial Instrumentation Laboratory	PC	4	0	0	4	2
18.	EE8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
19.	EI8651	Logic and Distributed Control System	PC	3	3	0	0	3

ATTESTED

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAIKUM, Chennai - 605 007

20.	EI8691	Computer Control of Processes	PC	3	3	0	0	3
21.	EI8692	Electronic Instrumentation	PC	3	3	0	0	3
22.	EI8661	Process Control Laboratory	PC	4	0	0	4	2
23.	EI8751	Industrial Data Networks	PC	3	3	0	0	3
24.	EE8691	Embedded Systems	PC	3	3	0	0	3
25.	EC8093	Digital Image Processing	PC	3	3	0	0	3
26.	EI8761	Industrial Automation Laboratory	PC	4	0	0	4	2
27.	EI8762	Instrumentation System Design Laboratory	PC	4	0	0	4	2

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8581	Professional Communication	EEC	2	0	0	2	1
2.	EI8811	Project work	EEC	20	0	0	20	10

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KARAPAKKAM, CHENNAI - 600 097.

S.NO.	SUBJECT AREA	CREDITS AS PER SEMESTER								CREDITS TOTAL
		I	II	III	IV	V	VI	VII	VIII	
1.	HS	4	7	-	-		-	-		11
2.	BS	12	7	4	4		-	-		27
3.	ES	9	6	8	6		5	-		34
4.	PC	-	5	11	14	19	11	13		73
5.	PE						6	6	6	18
6.	OE					3		3	-	6
7.	EEC						1		10	11
	Total	25	25	23	24	22	23	22	16	180
	Non Credit / Mandatory	-	-	-	-	-	-	-	-	0

SUM
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ATTESTED

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAPAKKUM, DISTRICT - 600 097.

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 B.TECH INFORMATION TECHNOLOGY
 REGULATIONS - 2017
 CHOICE BASED CREDIT SYSTEM
 I - VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8252	Physics for Information Science	BS	3	3	0	0	3
4.	BE8255	Basic Electrical, Electronics and Measurement Engineering	ES	3	3	0	0	3
5.	IT8201	Information Technology Essentials	PC	3	3	0	0	3
6.	CS8251	Programming in C	PC	3	3	0	0	3
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	CS8261	C Programming Laboratory	PC	4	0	0	4	2
9.	IT8211	Information Technology Essentials Laboratory	PC	2	0	0	2	1
TOTAL				30	20	0	10	25

ATTESTED


PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.

SEMESTER III

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8351	Discrete Mathematics	BS	4	4	0	0	4
2.	CS8351	Digital Principles and System Design	ES	4	4	0	0	4
3.	CS8391	Data Structures	PC	3	3	0	0	3
4.	CS8392	Object Oriented Programming	PC	3	3	0	0	3
5.	EC8394	Analog and Digital Communication	PC	3	3	0	0	3
PRACTICALS								
6.	CS8381	Data Structures Laboratory	PC	4	0	0	4	2
7.	CS8383	Object Oriented Programming Laboratory	PC	4	0	0	4	2
8.	CS8382	Digital Systems Laboratory	ES	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
TOTAL				31	17	0	14	24

SEMESTER IV

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8391	Probability and Statistics	BS	4	4	0	0	4
2.	CS8491	Computer Architecture	PC	3	3	0	0	3
3.	CS8492	Database Management Systems	PC	3	3	0	0	3
4.	CS8451	Design and Analysis of Algorithms	PC	3	3	0	0	3
5.	CS8493	Operating Systems	PC	3	3	0	0	3
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
PRACTICALS								
7.	CS8481	Database Management Systems Laboratory	PC	4	0	0	4	2
8.	CS8461	Operating Systems Laboratory	PC	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
TOTAL				29	19	0	10	24

ATTESTED

G. P. S.

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KAMAYAKKAM, CHENNAI - 600 097.

SEMESTER V

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8551	Algebra and Number Theory	BS	4	4	0	0	4
2.	CS8591	Computer Networks	PC	3	3	0	0	3
3.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
4.	IT8501	Web Technology	PC	3	3	0	0	3
5.	CS8494	Software Engineering	PC	3	3	0	0	3
6.		Open Elective I	OE	3	3	0	0	3
PRACTICALS								
7.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	CS8581	Networks Laboratory	PC	4	0	0	4	2
9.	IT8511	Web Technology Laboratory	PC	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER VI

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	IT8601	Computational Intelligence	PC	3	3	0	0	3
2.	CS8592	Object Oriented Analysis and Design	PC	3	3	0	0	3
3.	IT8602	Mobile Communication	PC	3	3	0	0	3
4.	CS8091	Big Data Analytics	PC	3	3	0	0	3
5.	CS8092	Computer Graphics and Multimedia	PC	3	3	0	0	3
6.		Professional Elective I	PE	3	3	0	0	3
PRACTICALS								
7.	CS8662	Mobile Application Development Laboratory	PC	4	0	0	4	2
8.	CS8582	Object Oriented Analysis and Design Laboratory	PC	4	0	0	4	2
9.	IT8611	Mini Project	EEC	2	0	0	2	1
10.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				30	18	0	12	24

ATTESTED

G. P.

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KCG COLLEGE OF TECHNOLOGY
KARAIKAL, CHENNAI - 600 097.**

SEMESTER VII

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MG8591	Principles of Management	HS	3	3	0	0	3
2.	CS8792	Cryptography and Network Security	PC	3	3	0	0	3
3.	CS8791	Cloud Computing	PC	3	3	0	0	3
4.		Open Elective II	OE	3	3	0	0	3
5.		Professional Elective II	PE	3	3	0	0	3
6.		Professional Elective III	PE	3	3	0	0	3
PRACTICALS								
7.	IT8711	FOSS and Cloud Computing Laboratory	PC	4	0	0	4	2
8.	IT8761	Security Laboratory	PC	4	0	0	4	2
TOTAL				26	18	0	8	22

SEMESTER VIII

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
PRACTICALS								
3.	IT8811	Project Work	EEC	20	0	0	20	10
TOTAL				26	6	0	20	16

TOTAL NO. OF CREDITS: 185

ATTESTED



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**KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.**

HUMANITIES AND SOCIAL SCIENCES (HS)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
4.	MG8591	Principles of Management	HS	3	3	0	0	3

BASIC SCIENCES (BS)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8251	Engineering Mathematics I	BS	4	4	0	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8252	Physics for Information Science	BS	3	3	0	0	3
7.	MA8351	Discrete Mathematics	BS	4	4	0	0	4
8.	MA8391	Probability and Statistics	BS	4	4	0	0	4
9.	MA8551	Algebra and Number Theory	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
4.	BE8255	Basic Electrical, Electronics and Measurement Engineering	ES	3	3	0	0	3
5.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
6.	CS8351	Digital Principles and System Design	ES	4	4	0	0	4
7.	CS8382	Digital Systems Laboratory	ES	4	0	0	4	2

ATTESTED



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KARAPAKKAM, CHENNAI - 600 097.**

PROFESSIONAL CORE (PC)

Sl. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	IT8201	Information Technology Essentials	PC	3	3	0	0	3
2.	IT8211	Information Technology Essentials Laboratory	PC	2	0	0	2	1
3.	CS8251	Programming in C	PC	3	3	0	0	3
4.	CS8261	C Programming Laboratory	PC	4	0	0	4	2
5.	CS8391	Data Structures	PC	3	3	0	0	3
6.	CS8392	Object Oriented Programming	PC	3	3	0	0	3
7.	EC8394	Analog and Digital Communication	PC	3	3	0	0	3
8.	CS8381	Data Structures Laboratory	PC	4	0	0	4	2
9.	CS8383	Object Oriented Programming Laboratory	PC	4	0	0	4	2
10.	CS8491	Computer Architecture	PC	3	3	0	0	3
11.	CS8492	Database Management Systems	PC	3	3	0	0	3
12.	CS8451	Design and Analysis of Algorithms	PC	3	3	0	0	3
13.	CS8493	Operating Systems	PC	3	3	0	0	3
14.	CS8481	Database Management Systems Laboratory	PC	4	0	0	4	2
15.	CS8461	Operating Systems Laboratory	PC	4	0	0	4	2
16.	CS8591	Computer Networks	PC	3	3	0	0	3
17.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
18.	IT8501	Web Technology	PC	3	3	0	0	3
19.	CS8494	Software Engineering	PC	3	3	0	0	3
20.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
21.	CS8581	Networks Laboratory	PC	4	0	0	4	2
22.	IT8511	Web Technology Laboratory	PC	4	0	0	4	2
23.	IT8601	Computational Intelligence	PC	3	3	0	0	3
24.	CS8592	Object Oriented Analysis and Design	PC	3	3	0	0	3
25.	IT8602	Mobile Communication	PC	3	3	0	0	3
26.	CS8091	Big Data Analytics	PC	3	3	0	0	3
27.	CS8092	Computer Graphics and Multimedia	PC	3	3	0	0	3
28.	CS8662	Mobile Application Development Laboratory	PC	4	0	0	4	2

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**KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, Chennai - 600 097.**

29.	CS8582	Object Oriented Analysis and Design Laboratory	PC	4	0	0	4	2
30.	CS8792	Cryptography and Network Security	PC	3	3	0	0	3
31.	CS8791	Cloud Computing	PC	3	3	0	0	3
32.	IT8711	FOSS and Cloud Computing Laboratory	PC	4	0	0	4	2
33.	IT8761	Security Laboratory	PC	4	0	0	4	2

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**PROFESSIONAL ELECTIVES (PE)
SEMESTER VI
ELECTIVE - I**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	IT8076	Software Testing	PE	3	3	0	0	3
2.	CS8077	Graph Theory and Applications	PE	3	3	0	0	3
3.	IT8071	Digital Signal Processing	PE	3	3	0	0	3
4.	IT8001	Information Storage and Management	PE	3	3	0	0	3
5.	CS8072	Agile Methodologies	PE	3	3	0	0	3
6.	IT8072	Embedded Systems	PE	3	3	0	0	3
7.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3

**SEMESTER VII
ELECTIVE - II**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	IT8002	Web Development Frameworks	PE	3	3	0	0	3
2.	CS8082	Machine Learning Techniques	PE	3	3	0	0	3
3.	IT8003	Formal Languages and Automata Theory	PE	3	3	0	0	3
4.	CS8081	Internet of Things	PE	3	3	0	0	3
5.	IT8075	Software Project Management	PE	3	3	0	0	3
6.	IT8074	Service Oriented Architecture	PE	3	3	0	0	3
7.	GE8077	Total Quality Management	PE	3	3	0	0	3

**SEMESTER VII
ELECTIVE - III**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8079	Human Computer Interaction	PE	3	3	0	0	3
2.	CS8073	C# and .Net Programming	PE	3	3	0	0	3
3.	CS8088	Wireless Adhoc and Sensor Networks	PE	3	3	0	0	3
4.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3
5.	CS8071	Advanced Topics on Databases	PE	3	3	0	0	3
6.	GE8074	Human Rights	PE	3	3	0	0	3
7.	GE8071	Disaster Management	PE	3	3	0	0	3

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KARAIKUL

**SEMESTER VIII
ELECTIVE - IV**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8085	Social Network Analysis	PE	3	3	0	0	3
2.	CS8086	Soft Computing	PE	3	3	0	0	3
3.	CS8074	Cyber Forensics	PE	3	3	0	0	3
4.	IT8073	Information Security	PE	3	3	0	0	3
5.	EC8093	Digital Image Processing	PE	3	3	0	0	3
6.	IT8004	Network Management	PE	3	3	0	0	3
7.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3

**SEMESTER VIII
ELECTIVE - V**

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8080	Information Retrieval Techniques	PE	3	3	0	0	3
2.	CS8078	Green Computing	PE	3	3	0	0	3
3.	CS8084	Natural Language Processing	PE	3	3	0	0	3
4.	IT8077	Speech Processing	PE	3	3	0	0	3
5.	IT8078	Web Design and Management	PE	3	3	0	0	3
6.	IT8005	Electronic Commerce	PE	3	3	0	0	3
7.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

*Professional Electives are grouped according to elective number as was done previously.

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills/ Listening & Speaking	EEC	2	0	0	2	1
2.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
3.	IT8611	Mini Project	EEC	2	0	0	2	1
4.	HS8581	Professional Communication	EEC	2	0	0	2	1
5.	IT8811	Project Work	EEC	20	0	0	20	10

ATTESTED



PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
KARAPET, KARNATAKA - 576 107.

SUMMARY

S.NO.	SUBJECT AREA	CREDITS AS PER SEMESTER								CREDITS TOTAL	Percentage
		I	II	III	IV	V	VI	VII	VIII		
1.	HS	4	4		3			3		14	8.6%
2.	BS	12	7	4	4	4				31	16.84%
3.	ES	9	5	6						20	11.41%
4.	PC		9	13	16	18	19	10		85	45.56%
5.	PE					3	3	6	6	18	8.15%
6.	OE							3		3	3.26%
7.	EEC			1	1		2		10	14	7.0%
	Total	25	25	24	24	25	24	22	16	185	
8.	Non Credit / Mandatory										

ATTESTED

G. P.

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
 KARAPAKKAL

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 B.E. MECHANICAL ENGINEERING
 REGULATIONS - 2017
 CHOICE BASED CREDIT SYSTEM
 I TO VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8251	Materials Science	BS	3	3	0	0	3
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0	0	4	2
TOTAL				30	20	2	8	25

ATTESTED



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 KARAIKAL, CHENNAI - 600 097.

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	ME8391	Engineering Thermodynamics	PC	5	3	2	0	4
3.	CE8394	Fluid Mechanics and Machinery	ES	4	4	0	0	4
4.	ME8351	Manufacturing Technology - I	PC	3	3	0	0	3
5.	EE8353	Electrical Drives and Controls	ES	3	3	0	0	3
PRACTICAL								
6.	ME8361	Manufacturing Technology Laboratory - I	PC	4	0	0	4	2
7.	ME8381	Computer Aided Machine Drawing	PC	4	0	0	4	2
8.	EE8361	Electrical Engineering Laboratory	ES	4	0	0	4	2
9.	HS8381	Interpersonal Skills / Listening & Speaking	EEC	2	0	0	2	1
TOTAL				33	17	2	14	25

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8452	Statistics and Numerical Methods	BS	4	4	0	0	4
2.	ME8492	Kinematics of Machinery	PC	3	3	0	0	3
3.	ME8451	Manufacturing Technology - II	PC	3	3	0	0	3
4.	ME8491	Engineering Metallurgy	PC	3	3	0	0	3
5.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	0	0	3
6.	ME8493	Thermal Engineering- I	PC	3	3	0	0	3
PRACTICAL								
7.	ME8462	Manufacturing Technology Laboratory - II	PC	4	0	0	4	2
8.	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	ES	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
TOTAL				29	19	0	10	24

ATTESTED

G. B.

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KCC COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.

SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ME8595	Thermal Engineering- II	PC	3	3	0	0	3
2.	ME8593	Design of Machine Elements	PC	3	3	0	0	3
3.	ME8501	Metrology and Measurements	PC	3	3	0	0	3
4.	ME8594	Dynamics of Machines	PC	4	4	0	0	4
5.		Open Elective I	OE	3	3	0	0	3
PRACTICAL								
6.	ME8511	Kinematics and Dynamics Laboratory	PC	4	0	0	4	2
7.	ME8512	Thermal Engineering Laboratory	PC	4	0	0	4	2
8.	ME8513	Metrology and Measurements Laboratory	PC	4	0	0	4	2
TOTAL				28	16	0	12	22

SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ME8651	Design of Transmission Systems	PC	3	3	0	0	3
2.	ME8691	Computer Aided Design and Manufacturing	PC	3	3	0	0	3
3.	ME8693	Heat and Mass Transfer	PC	5	3	2	0	4
4.	ME8692	Finite Element Analysis	PC	3	3	0	0	3
5.	ME8694	Hydraulics and Pneumatics	PC	3	3	0	0	3
6.		Professional Elective - I	PE	3	3	0	0	3
PRACTICAL								
7.	ME8681	CAD / CAM Laboratory	PC	4	0	0	4	2
8.	ME8682	Design and Fabrication Project	EEC	4	0	0	4	2
9.	HS8581	Professional Communication	EEC	2	0	0	2	1
TOTAL				30	18	2	10	24

ATTESTED

G. P.

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SEMESTER VII

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ME8792	Power Plant Engineering	PC	3	3	0	0	3
2.	ME8793	Process Planning and Cost Estimation	PC	3	3	0	0	3
3.	ME8791	Mechatronics	PC	3	3	0	0	3
4.		Open Elective - II	OE	3	3	0	0	3
5.		Professional Elective – II	PE	3	3	0	0	3
6.		Professional Elective – III	PE	3	3	0	0	3
PRACTICAL								
7.	ME8711	Simulation and Analysis Laboratory	PC	4	0	0	4	2
8.	ME8781	Mechatronics Laboratory	PC	4	0	0	4	2
9.	ME8712	Technical Seminar	EEC	2	0	0	2	1
TOTAL				28	18	0	10	23

SEMESTER VIII

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MG8591	Principles of Management	HS	3	3	0	0	3
2.		Professional Elective– IV	PE	3	3	0	0	3
PRACTICAL								
3.	ME8811	Project Work	EEC	20	0	0	20	10
TOTAL				29	9	0	20	16

TOTAL NUMBER OF CREDITS TO BE EARNED FOR AWARD OF THE DEGREE = 184

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HUMANITIES AND SOCIAL SCIENCES (HS)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	HS8251	Technical English	HS	4	4	0	0	4
3.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
4.	MG8591	Principles of Management	HS	3	3	0	0	3

BASIC SCIENCE (BS)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics - I	BS	5	3	2	0	4
2.	PH8151	Engineering Physics	BS	3	3	0	0	3
3.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
4.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics II	BS	4	4	0	0	4
6.	PH8251	Materials Science	BS	3	3	0	0	3
7.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
8.	MA8452	Statistics and Numerical Methods	BS	4	4	0	0	4

ENGINEERING SCIENCES (ES)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
2.	GE8152	Engineering Graphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
6.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
7.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0	0	4	2
8.	CE8394	Fluid Mechanics and Machinery	ES	5	3	2	0	4
9.	EE8353	Electrical Drives and Controls	ES	3	3	0	0	3
10.	EE8361	Electrical Engineering Laboratory	ES	4	0	0	4	2
11.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	0	0	3
12.	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	ES	4	0	0	4	2

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PROFESSIONAL CORE (PC)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8391	Engineering Thermodynamics	PC	5	3	2	0	4
2.	ME8351	Manufacturing Technology - I	PC	3	3	0	0	3
3.	ME8361	Manufacturing Technology Laboratory - I	PC	4	0	0	4	2
4.	ME8381	Computer Aided Machine Drawing	PC	4	0	0	4	2
5.	ME8492	Kinematics of Machinery	PC	3	3	0	0	3
6.	ME8451	Manufacturing Technology- II	PC	3	3	0	0	3
7.	ME8491	Engineering Metallurgy	PC	3	3	0	0	3
8.	ME8493	Thermal Engineering- I	PC	3	3	0	0	3
9.	ME8462	Manufacturing Technology Laboratory-II	PC	4	0	0	4	2
10.	ME8595	Thermal Engineering- II	PC	3	3	0	0	3
11.	ME8593	Design of Machine Elements	PC	3	3	0	0	3
12.	ME8501	Metrology and Measurements	PC	3	3	0	0	3
13.	ME8594	Dynamics of Machines	PC	4	4	0	0	4
14.	ME8511	Kinematics and Dynamics Laboratory	PC	4	0	0	4	2
15.	ME8512	Thermal Engineering Laboratory	PC	4	0	0	4	2
16.	ME8513	Metrology and Measurements Laboratory	PC	4	0	0	4	2
17.	ME8651	Design of Transmission Systems	PC	3	3	0	0	3
18.	ME8691	Computer Aided Design and Manufacturing	PC	3	3	0	0	3
19.	ME8693	Heat and Mass Transfer	PC	5	3	2	0	4
20.	ME8692	Finite Element Analysis	PC	3	3	0	0	3
21.	ME8694	Hydraulics and Pneumatics	PC	3	3	0	0	3
22.	ME8681	C.A.D. / C.A.M. Laboratory	PC	4	0	0	4	2
23.	ME8682	Design and Fabrication Project	PC	4	0	0	4	2
24.	ME8792	Power Plant Engineering	PC	3	3	0	0	3
25.	ME8791	Mechatronics	PC	3	3	0	0	3
26.	ME8793	Process Planning and Cost Estimation	PC	3	3	0	0	3
27.	ME8711	Simulation and Analysis Laboratory	PC	4	0	0	4	2
28.	ME8781	Mechatronics Laboratory	PC	4	0	0	4	2

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PROFESSIONAL ELECTIVES FOR B.E. MECHANICAL ENGINEERING

SEMESTER VI, ELECTIVE I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8091	Automobile Engineering	PE	3	3	0	0	3
2.	PR8592	Welding Technology	PE	3	3	0	0	3
3.	ME8096	Gas Dynamics and Jet Propulsion	PE	3	3	0	0	3
4.	GE8075	Intellectual Property Rights	PE	3	3	0	0	3
5.	GE8073	Fundamentals of Nano Science	PE	3	3	0	0	3

SEMESTER VII, ELECTIVE II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8071	Refrigeration and Air conditioning	PE	3	3	0	0	3
2.	ME8072	Renewable Sources of Energy	PE	3	3	0	0	3
3.	ME8098	Quality Control and Reliability Engineering	PE	3	3	0	0	3
4.	ME8073	Unconventional Machining Processes	PE	3	3	0	0	3
5.	MG8491	Operations Research	PE	3	3	0	0	3
6.	MF8071	Additive Manufacturing	PE	3	3	0	0	3
7.	GE8077	Total Quality Management	PE	3	3	0	0	3

SEMESTER VII, ELECTIVE III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8099	Robotics	PE	3	3	0	0	3
2.	ME8095	Design of Jigs, Fixtures and Press Tools	PE	3	3	0	0	3
3.	ME8093	Computational Fluid Dynamics	PE	3	3	0	0	3
4.	ME8097	Non Destructive Testing and Evaluation	PE	3	3	0	0	3
5.	ME8092	Composite Materials and Mechanics	PE	3	3	0	0	3
6.	GE8072	Foundation Skills in Integrated Product Development	PE	3	3	0	0	3
7.	GE8074	Human Rights	PE	3	3	0	0	3
8.	GE8071	Disaster Management	PE	3	3	0	0	3

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SEMESTER VIII, ELECTIVE IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	IE8693	Production Planning and Control	PE	3	3	0	0	3
2.	MG8091	Entrepreneurship Development	PE	3	3	0	0	3
3.	ME8094	Computer Integrated Manufacturing Systems	PE	3	3	0	0	3
4.	ME8074	Vibration and Noise Control	PE	3	3	0	0	3
5.	EE8091	Micro Electro Mechanical Systems	PE	3	3	0	0	3
6.	GE8076	Professional Ethics in Engineering	PE	3	3	0	0	3

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills/Listening &	EEC	4	0	0	4	2
2.	ME8712	Technical Seminar	EEC	2	0	0	2	1
3.	ME8811	Project Work	EEC	20	0	0	20	12
4.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
5.	ME8682	Design and Fabrication Project	EEC	4	0	0	4	2
6.	HS8581	Professional Communication	EEC	2	0	0	2	1

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G. P. S.

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KARAPAKKAM, CHENNAI - 600 097.**

SUMMARY

SL. NO.	SUBJECT AREA	CREDITS PER SEMESTER								CREDITS TOTAL	Percentage %
		I	II	III	IV	V	VI	VII	VIII		
1.	HS	4	7	-	-	-		-	3	14	7.61%
2.	BS	12	7	4	4	-	-	-	-	27	14.67%
3.	ES	9	11	9	5	-	-	-	-	33	17.80%
4.	PC	-	-	11	14	19	18	13	-	74	40.22%
5.	PE	-	-	-	-	-	3	6	3	15	8.15%
6.	OE	-	-	-	-	3	-	3		6	3.26%
7.	EEC	-	-	1	1	-	3	1	10	16	7.6%
	Total	25	25	25	24	22	24	23	16	184	
8.	Non Credit / Mandatory										

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KARAIKAL, CHENNAI - 600 097.

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 M.E. VLSI DESIGN
 REGULATIONS – 2017
 CHOICE BASED CREDIT SYSTEM
 CURRICULA AND SYLLABI

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA5152	Applied Mathematics for Electronics Engineers	FC	4	4	0	0	4
2.	AP5151	Advanced Digital System Design	PC	3	3	0	0	3
3.	VL5101	CMOS Digital VLSI Design	PC	3	3	0	0	3
4.	VL5191	DSP Integrated Circuits	PC	3	3	0	0	3
5.	VL5102	CAD for VLSI Circuits	PC	3	3	0	0	3
6.	VL5103	Analog IC Design	PC	4	4	0	0	4
PRACTICALS								
7.	VL5111	VLSI Design Laboratory I	PC	4	0	0	4	2
TOTAL				24	20	0	4	22

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	VL5201	Testing of VLSI Circuits	PC	3	3	0	0	3
2.	VL5291	VLSI Signal Processing	PC	3	3	0	0	3
3.	VL5202	Low Power VLSI Design	PC	3	3	0	0	3
4.		Professional Elective I	PE	3	3	0	0	3
5.		Professional Elective II	PE	3	3	0	0	3
6.		Professional Elective III	PE	3	3	0	0	3
PRACTICALS								
7.	VL5211	VLSI Design Laboratory II	PC	4	0	0	4	2
8.	CP5281	Term Paper Writing and Seminar	EEC	2	0	0	2	1
TOTAL				24	18	0	6	21

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 KARAPAKKAM, CHENNAI - 600 097.**

SEMESTER III								
SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	VL5301	Analog to Digital Interfaces	PC	3	3	0	0	3
2.		Professional Elective IV	PE	3	3	0	0	3
3.		Professional Elective V	PE	3	3	0	0	3
PRACTICALS								
4.	VL5311	Project Work Phase-I	EEC	12	0	0	12	6
TOTAL				21	9	0	12	15

SEMESTER IV								
SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICALS								
1.	VL5411	Project Work Phase-II	EEC	24	0	0	24	12
TOTAL				24	0	0	24	12

TOTAL NO. OF CREDITS:70

ATTESTED



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KCG COLLEGE OF TECHNOLOGY
KARAPALLE, GUNTUR - 524 097.

FOUNDATION COURSES (FC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA5152	Applied Mathematics for Electronics Engineers	FC	4	4	0	0	4

PROFESSIONAL CORE (PC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	AP5151	Advanced Digital System Design	PC	3	3	0	0	3
2.	VL5101	CMOS Digital VLSI Design	PC	3	3	0	0	3
3.	VL5191	DSP Integrated Circuits	PC	3	3	0	0	3
4.	VL5102	CAD for VLSI Circuits	PC	3	3	0	0	3
5.	VL5103	Analog IC Design	PC	4	4	0	0	4
6.	VL5111	VLSI Design Laboratory I	PC	4	0	0	4	2
7.	VL5201	Testing of VLSI Circuits	PC	3	3	0	0	3
8.	VL5291	VLSI Signal Processing	PC	3	3	0	0	3
9.	VL5202	Low Power VLSI Design	PC	3	3	0	0	3
10.	VL5211	VLSI Design Laboratory II	PC	4	0	0	4	2
11.	VL5301	Analog to Digital Interfaces	PC	3	3	0	0	3

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KARUR

EMPLOYABILITY ENHANCEMENT COURSE (EEC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CP5281	Term Paper Writing and Seminar	EEC	2	0	0	2	1
2.	VL5311	Project Work Phase - I	EEC	12	0	0	12	6
3.	VL5411	Project Work Phase - II	EEC	24	0	0	24	12

ATTESTED

G. B.

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 KARJANUR, DISTRICT CHITRADURGA, KARNATAKA 577 207.

**PROFESSIONAL ELECTIVES (PE)
SEMESTER II
ELECTIVE I**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	VL5001	Device Modeling - I	PE	3	3	0	0	3
2.	VL5002	RF IC Design	PE	3	3	0	0	3
3.	VL5003	Design of Analog Filters and Signal Conditioning Circuits	PE	3	3	0	0	3
4.	VL5004	Nano Scale Devices	PE	3	3	0	0	3

**SEMESTER II
ELECTIVE II**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	DS5191	DSP Processor Architecture and Programming	PE	3	3	0	0	3
2.	VL5005	Networks on Chip	PE	3	3	0	0	3
3.	AP5094	Signal Integrity for High Speed Design	PE	3	3	0	0	3
4.	AP5091	Digital Control Engineering	PE	3	3	0	0	3

**SEMESTER II
ELECTIVE III**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	AP5191	Embedded System Design	PE	3	3	0	0	3
2.	AP5251	Soft Computing and Optimization Techniques	PE	3	3	0	0	3
3.	VL5006	Reconfigurable Architectures	PE	3	3	0	0	3
4.	VL5007	Advanced Microprocessors and Architectures	PE	3	3	0	0	3

**SEMESTER III
ELECTIVE IV**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	VL5008	Selected Topics in ASIC Design	PE	3	3	0	0	3
2.	VL5009	Design and Analysis of Computer Algorithms	PE	3	3	0	0	3
3.	VL5010	Device Modeling- II	PE	3	3	0	0	3
4.	AP5292	Digital Image Processing	PE	3	3	0	0	3

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SEMESTER III
ELECTIVE V

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	VL5091	MEMS and NEMS	PE	3	3	0	0	3
2.	VL5011	Scripting Languages for VLSI	PE	3	3	0	0	3
3.	AP5291	Hardware – Software Co-Design	PE	3	3	0	0	3
4.	VL5012	Selected Topics in IC Design	PE	3	3	0	0	3

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**KCG COLLEGE OF TECHNOLOGY
KARAPAKKAL, DISTRICT 11-800 097.**

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS – 2013
M.E POWER ELECTRONICS AND DRIVES
I TO IV SEMESTERS (FULL TIME) CURRICULUM AND SYLLABUS
I SEMESTER

SL.NO	CODE	SUBJECT	L	T	P	C
THEORY						
1	MA7163	Applied Mathematics for Electrical Engineers	3	1	0	4
2	PX7101	Analysis of Electrical Machines	3	0	0	3
3	PX7102	Analysis of Power Converters	3	0	0	3
4	PX7103	Analysis and Design of Inverters	3	0	0	3
5	PX7104	Advanced Power Semiconductor Devices	3	0	0	3
6		Elective I	3	0	0	3
TOTAL			18	1	0	19

II SEMESTER

SL.NO	CODE	SUBJECT	L	T	P	C
THEORY						
1	PX7201	Solid State DC Drives	3	0	0	3
2	PX7202	Solid State AC Drives	3	0	0	3
3	PX7203	Special Electrical Machines	3	0	0	3
4	PX7204	Power Quality	3	0	0	3
5		Elective II	3	0	0	3
6		Elective III	3	0	0	3
PRACTICAL						
7	PX7211	Power Electronics and Drives Lab	0	0	3	2
TOTAL			18	0	3	20

III SEMESTER

SL.NO	CODE	SUBJECT	L	T	P	C
THEORY						
1	PX7301	Power Electronics for Renewable Energy Systems	3	0	0	3
2		Elective IV	3	0	0	3
3		Elective V	3	0	0	3
PRACTICAL						
4	PX7311	Project work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

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IV SEMESTER

SL.NO	CODE	SUBJECT	L	T	P	C
1	PX7411	Project work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL NUMBER OF CREDITS = 66

ELECTIVES OF POWER ELECTRONICS AND DRIVES

ELECTIVE I

SL.NO	CODE	SUBJECT	L	T	P	C
1	CL7103	System Theory	3	0	0	3
2	ET7102	Microcontroller Based System Design	3	0	0	3
3	PX7001	Electromagnetic Field Computation and Modelling	3	0	0	3

ELECTIVE II & III

SL.NO	CODE	SUBJECT	L	T	P	C
1.	CL7204	Soft Computing Techniques	3	0	0	3
2.	EB7212	Digital Simulation of Power Electronic Circuits Laboratory	0	0	3	2
3.	ET7201	VLSI Architecture and Design Methodologies	3	0	0	3
4.	PS7202	Flexible AC Transmission Systems	3	0	0	3
5.	PS7002	Energy Management and Auditing	3	0	0	3
6.	PX7002	SMPS and UPS	3	0	0	3

ELECTIVE IV & V

SL.NO	CODE	SUBJECT	L	T	P	C
1.	PS7005	High Voltage Direct Current Transmission	3	0	0	3
2.	ET7014	Application of MEMS Technology	3	0	0	3
3.	PS7004	Solar and Energy Storage Systems	3	0	0	3
4.	PS7007	Wind Energy Conversion Systems	3	0	0	3
5.	PX7003	Non Linear Dynamics for Power Electronics Circuits	3	0	0	3
6.	PS7008	Smart Grid	3	0	0	3

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AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS – 2013
M.E. COMMUNICATION SYSTEMS
I TO IV SEMESTERS CURRICULUM AND SYLLABUS (FULL TIME)

SEMESTER I						
SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA7158	<u>Applied Mathematics for Communication Engineers</u>	3	1	0	4
2.	CU7101	<u>Advanced Radiation Systems</u>	3	0	0	3
3.	CU7102	<u>Advanced Digital Communication Techniques</u>	3	0	0	3
4.	AP7101	<u>Advanced Digital Signal Processing</u>	3	1	0	4
5.	CU7103	<u>Optical Networks</u>	3	0	0	3
6.		Elective I	3	0	0	3
PRACTICAL						
7.	CU7111	<u>Communication Systems Laboratory</u>	0	0	3	2
TOTAL CREDITS			18	2	3	22

SEMESTER II						
SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CU7201	<u>Wireless Communication Networks</u>	3	0	0	3
2.	CU7202	<u>MIC and RF System Design</u>	3	0	0	3
3.	AP7301	<u>Electromagnetic Interference and Compatibility</u>	3	0	0	3
4.		Elective II	3	0	0	3
5.		Elective III	3	0	0	3
6.		Elective IV	3	0	0	3
PRACTICAL						
7.	CU7211	<u>Innovative System Design Laboratory</u>	0	0	3	2
TOTAL CREDITS			18	0	3	20

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SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CU7301	<u>Advanced Satellite Based Systems</u>	3	0	0	3
2.		Elective V	3	0	0	3
3.		Elective VI	3	0	0	3
PRACTICAL						
4.	CU7311	Project Work (Phase I)	0	0	12	6
TOTAL CREDITS			9	0	12	15

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1.	CU7411	Project Work (Phase II)	0	0	24	12
TOTAL CREDITS			0	0	24	12

TOTAL NO OF CREDITS:69

LIST OF ELECTIVES

ELECTIVE I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	AP7103	<u>Advanced Microprocessor and Microcontroller</u>	3	0	0	3
2.	VL7001	<u>Analog and Mixed Mode VLSI Design</u>	3	0	0	3
3.	CU7001	<u>Real Time Embedded Systems</u>	3	0	0	3
4.	CU7002	<u>MEMS and NEMS</u>	3	0	0	3
5.	AP7202	<u>ASIC and FPGA Design</u>	3	0	0	3

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ELECTIVE II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	NC7102	<u>Communication Network Modelling and Simulation</u>	3	0	0	3
2.	CU7003	<u>Digital Communication Receivers</u>	3	0	0	3
3.	CU7004	<u>Detection and Estimation Theory</u>	3	0	0	3
4.	VL7013	<u>VLSI for Wireless Communication</u>	3	0	0	3
5.	CU7005	<u>Cognitive Radio</u>	3	0	0	3

ELECTIVE III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	DS7071	<u>Speech And Audio Signal Processing</u>	3	0	0	3
2.	DS7201	<u>Advanced Digital Image Processing</u>	3	0	0	3
3.	DS7202	<u>Radar Signal Processing</u>	3	0	0	3
4.	CP7008	<u>Speech Processing and Synthesis</u>	3	0	0	3

ELECTIVE IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CU7006	<u>Wavelet Transforms and Applications</u>	3	0	0	3
2.	DS7101	<u>DSP Processor Architecture and Programming</u>	3	0	0	3
3.	NC7101	<u>High Performance Networks</u>	3	0	0	3
4.	CP7023	<u>Reconfigurable Computing</u>	3	0	0	3

ELECTIVE V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	NC7001	<u>Network Routing Algorithms</u>	3	0	0	3
2.	NC7202	<u>Wireless Adhoc and Sensor Networks</u>	3	0	0	3
3.	CU7007	<u>Internetworking Multimedia</u>	3	0	0	3
4.	NC7002	<u>Multimedia Compression Techniques</u>	3	0	0	3
5.	CU7008	<u>Ultra Wide Band Communication</u>	3	0	0	3

ELECTIVE VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	IF7301	<u>Soft Computing</u>	3	0	0	3
2.	NC7003	<u>Network Processor</u>	3	0	0	3
3.	NE7007	<u>Network Management</u>	3	0	0	3
4.	NC7201	<u>Communication Network Security</u>	3	0	0	3
5.	CU7009	<u>Neural Network and Applications</u>	3	0	0	3

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B.E. AERONAUTICAL ENGINEERING
I – VIII SEMESTERS CURRICULUM AND SYLLABUS

SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS6151	Technical English – I	3	1	0	4
2.	MA6151	Mathematics – I	3	1	0	4
3.	PH6151	Engineering Physics – I	3	0	0	3
4.	CY6151	Engineering Chemistry – I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	2	0	3	4
PRACTICALS						
7.	GE6161	Computer Practices Laboratory	0	0	3	2
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
TOTAL			17	2	11	26

SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS6251	Technical English – II	3	1	0	4
2.	MA6251	Mathematics – II	3	1	0	4
3.	PH6251	Engineering Physics – II	3	0	0	3
4.	CY6251	Engineering Chemistry – II	3	0	0	3
5.	GE6252	Basic Electrical and Electronics Engineering	4	0	0	4
6.	GE6253	Engineering Mechanics	3	1	0	4
PRACTICALS						
7.	GE6261	Computer Aided Drafting and Modeling Laboratory	0	1	2	2
8.	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
TOTAL			19	4	4	25

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SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	ME6352	Manufacturing Technology	3	0	0	3
3.	AE6301	Aero Engineering Thermodynamics	3	0	0	3
4.	CE6451	Fluid Mechanics and Machinery	3	0	0	3
5.	CE6452	Solid Mechanics	3	0	0	3
6.	AE6302	Elements of Aeronautics	3	0	0	3
PRACTICAL						
7.	CE6315	Strength of Materials Laboratory	0	0	3	2
8.	CE6461	Fluid Mechanics and Machinery Laboratory	0	0	3	2
9.	AE6311	Thermodynamics Laboratory	0	0	3	2
10.	AE6312	CAM and Manufacturing Laboratory	0	0	3	2
TOTAL			18	1	12	27

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA6459	Numerical Methods	3	1	0	4
2.	AE6401	Aerodynamics - I	3	0	0	3
3.	AE6402	Aircraft Systems and Instruments	3	0	0	3
4.	AT6302	Mechanics of Machines	3	1	0	4
5.	AE6403	Aircraft Structures - I	3	1	0	4
6.	AE6404	Propulsion - I	3	0	0	3
PRACTICAL						
7.	AE6411	Aircraft Structures Laboratory - I	0	0	3	2
8.	AE6412	Aerodynamics Laboratory	0	0	3	2
9.	AE6413	CAD and Aircraft Component Drawing	0	0	4	2
TOTAL			18	3	10	27

SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	AE6501	Flight Dynamics	3	1	0	4
2.	AE6502	Aircraft Structures - II	3	1	0	4
3.	AE6503	Aerodynamics - II	3	1	0	4
4.	AE6504	Propulsion - II	3	0	0	3
5.	AE6505	Control Engineering	3	0	0	3
6.	GE6351	Environmental Science and Engineering	3	0	0	3
PRACTICAL						
7.	AE6511	Aircraft Structures Laboratory - II	0	0	3	2
8.	AE6512	Propulsion Laboratory	0	0	3	2
9.	GE6674	Communication and Soft Skills- Laboratory Based	0	0	4	2
TOTAL			18	3	10	27

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ELECTIVES FOR M.E. AERONAUTICAL ENGINEERING

**SEMESTER VI
ELECTIVE - I**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	AE6001	Theory of Elasticity	3	0	0	3
2.	AE6002	Aircraft General Engineering and Maintenance Practices	3	0	0	3
3.	AE6003	Space Mechanics	3	0	0	3
4.	AE6004	Heat Transfer	3	0	0	3
5.	GE6084	Human Rights	3	0	0	3

**SEMESTER VII
ELECTIVES- II**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	AE6005	Helicopter Theory	3	0	0	3
2.	AE6006	Theory of Plates and Shells	3	0	0	3
3.	AE6007	Fatigue and Fracture	3	0	0	3
4.	AE6008	UAV Systems	3	0	0	3
5.	GE6083	Disaster Management	3	0	0	3

ELECTIVES - III

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	AE6009	Industrial Aerodynamics	3	0	0	3
2.	AE6010	Airframe Maintenance and Repair	3	0	0	3
3.	AE6011	Aero Engine Maintenance and Repair	3	0	0	3
4.	AE6012	Air Traffic Control and Planning	3	0	0	3

**SEMESTER VIII
ELECTIVES - IV**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	AE6013	Hypersonic Aerodynamics	3	0	0	3
2.	AE6014	Experimental Aerodynamics	3	0	0	3
3.	AE6015	Rockets and Missiles	3	0	0	3
4.	AE6016	Structural Dynamics	3	0	0	3

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SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MG6851	Principles of Management	3	0	0	3
2.	AE6601	Finite Element Methods	3	1	0	4
3.	AE6602	Vibrations and Elements of Aeroelasticity	3	0	0	3
4.	AE6603	Composite Materials and Structures	3	0	0	3
5.	AE6604	Aircraft Materials and Processes	3	0	0	3
6.		Elective - I	3	0	0	3
PRACTICAL						
7.	AE6611	Aero Engine and Airframe Laboratory	0	0	3	2
8.	AE6612	Aircraft Design Project - I	0	0	3	2
9.	AE6613	Computer Aided Simulation Laboratory	0	0	3	2
TOTAL			18	1	9	25

SEMESTER VII

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	GE6757	Total Quality Management	3	0	0	3
2.	AE6701	Avionics	3	0	0	3
3.	ME6014	Computational Fluid Dynamics	3	0	0	3
4.	AE6702	Experimental Stress Analysis	3	0	0	3
5.		Elective - II	3	0	0	3
6.		Elective - III	3	0	0	3
PRACTICAL						
7.	AE6711	Aircraft Design Project - II	0	0	3	2
8.	AE6712	Aircraft Systems Laboratory	0	0	3	2
9.	AE6713	Flight Integration Systems and Control Laboratory	0	0	3	2
TOTAL			18	0	9	24

SEMESTER VIII

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	AE6801	Wind Tunnel Techniques	3	0	0	3
2.		Elective - IV	3	0	0	3
PRACTICAL						
3.	AE6811	Project Work	0	0	12	6
TOTAL			6	0	12	12

TOTAL NUMBER OF CREDITS TO BE EARNED FOR AWARD OF THE DEGREE = 193

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 B. E. CIVIL ENGINEERING
 I TO VIII SEMESTERS CURRICULUM & SYLLABUS

SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS6151	Technical English - I				
2.	MA6151	Mathematics - I	3	1	0	4
3.	PH6151	Engineering Physics - I	3	1	0	4
4.	CY6151	Engineering Chemistry - I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	3	0	0	3
PRACTICAL						
7.	GE6161	Computer Practices Laboratory				
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	3	2
			0	0	2	1
TOTAL			17	2	11	26

SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS6251	Technical English - II				
2.	MA6251	Mathematics - II	3	1	0	4
3.	PH6251	Engineering Physics - II	3	1	0	4
4.	CY6251	Engineering Chemistry - II	3	0	0	3
5.	GE6252	Basic Electrical and Electronics Engineering	3	0	0	3
6.	GE6253	Engineering Mechanics	4	0	0	4
PRACTICAL						
7.	GE6261	Computer Aided Drafting and Modeling Laboratory				
8.	GE6262	Physics and Chemistry Laboratory - II	0	1	2	2
			0	0	2	1
TOTAL			19	4	4	25

SEMESTER III

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA6351	Transforms and Partial Differential Equations				
2.	GE6351	Environmental Science and Engineering	3	1	0	4
3.	CE6301	Engineering Geology	3	0	0	3
4.	CE6302	Mechanics of Solids	3	0	0	3
5.	CE6303	Mechanics of Fluids	3	1	0	4
6.	CE6304	Surveying I	3	0	0	3
PRACTICAL						
7.	CE6311	Survey Practical I				
8.	CE6312	Computer Aided Building Drawing	0	0	4	2
			0	0	4	2
TOTAL			18	2	8	24

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SEMESTER IV

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA6459	Numerical Methods				
2.	CE6401	Construction Materials	3	1	0	4
3.	CE6402	Strength of Materials	3	0	0	3
4.	CE6403	Applied Hydraulic Engineering	3	1	0	4
5.	CE6404	Surveying II	3	1	0	4
6.	CE6405	Soil Mechanics	3	0	0	3
PRACTICAL						
7.	CE6411	Strength of Materials Laboratory	0	0	3	2
8.	CE6412	Hydraulic Engineering Laboratory	0	0	3	2
9.	CE6413	Survey Practical II	0	0	4	2
TOTAL			18	3	10	27

SEMESTER V

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CE6501	Structural Analysis I				
2.	CE6502	Foundation Engineering	3	1	0	4
3.	CE6503	Environmental Engineering I	3	0	0	3
4.	CE6504	Highway Engineering	3	0	0	3
5.	CE6505	Design of Reinforced Concrete Elements	3	0	0	3
6.	CE6506	Construction Techniques, Equipment and Practice	3	0	0	3
PRACTICAL						
7.	GE6674	Communication and Soft skills- Laboratory Based	0	0	4	2
8.	CE6511	Soil Mechanics Laboratory	0	0	4	2
9.	CE6512	Survey Camp*	-	-	-	1
TOTAL			18	1	8	24

* Survey Camp to be conducted for a period of 2 weeks during 4th Semester Summer Vacation

SEMESTER VI

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CE6601	Design of Reinforced Concrete & Brick Masonry Structures	3	0	0	3
2.	CE6602	Structural Analysis II	3	1	0	4
3.	CE6603	Design of Steel Structures	3	1	0	4
4.	CE6604	Railways, Airports and Harbour Engineering	3	0	0	3
5.	CE6605	Environmental Engineering II	3	0	0	3
6.		Elective I	3	0	0	3
PRACTICAL						
7.	CE6611	Environmental Engineering Laboratory	0	0	3	2
8.	CE6612	Concrete and Highway Engineering Laboratory	0	0	3	2
TOTAL			18	2	6	24

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SEMESTER VII

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CE6701	Structural Dynamics and Earthquake Engineering	3	0	0	3
2.	CE6702	Prestressed Concrete Structures	3	0	0	3
3.	CE6703	Water Resources and Irrigation Engineering	3	0	0	3
4.	CE6704	Estimation and Quantity Surveying	3	0	0	3
5.		Elective II	3	0	0	3
6.		Elective III	3	0	0	3
PRACTICAL						
7.	CE6711	Computer Aided Design and Drafting Laboratory	0	0	4	2
8.	CE6712	Design Project	0	0	4	2
TOTAL			18	0	8	22

SEMESTER VIII

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MG6851	Principles of Management	3	0	0	3
2.		Elective IV	3	0	0	3
3.		Elective V	3	0	0	3
PRACTICAL						
4.	CE6811	Project Work	0	0	12	6
TOTAL			9	0	12	15

TOTAL NO OF CREDITS: 187

LIST OF ELECTIVES

ELECTIVE I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CE6001	Hydrology	3	0	0	3
2.	CE6002	Concrete Technology	3	0	0	3
3.	CE6003	Remote Sensing Techniques and GIS	3	0	0	3
4.	CE6004	Architecture	3	0	0	3
5.	GE6075	Professional Ethics in Engineering	3	0	0	3
6.	CE6005	Construction Planning and Scheduling	3	0	0	3

ELECTIVE II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
7.	CE6006	Traffic Engineering and Management	3	0	0	3
8.	CE6007	Housing Planning and Management	3	0	0	3
9.	CE6008	Groundwater Engineering	3	0	0	3
10.	CE6009	Water Resources Systems Analysis	3	0	0	3
11.	CE6010	Pavement Engineering	3	0	0	3

ELECTIVE III

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
12.	EN6801	Environmental Impact Assessment	3	0	0	3
13.	CE6023	Industrial Waste Management	3	0	0	3
14.	CE6011	Air Pollution Management	3	0	0	3
15.	EN6501	Municipal Solid Waste Management	3	0	0	3
16.	CE6012	Ground Improvement Techniques	3	0	0	3
17.	GE6083	Disaster Management	3	0	0	3

ELECTIVE IV

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
18.	CE6013	Bridge Structures	3	0	0	3
19.	CE6014	Storage Structures	3	0	0	3
20.	CE6015	Tall Buildings	3	0	0	3
21.	CE6016	Prefabricated Structures	3	0	0	3
22.	CE6017	Experimental Analysis of Stress	3	0	0	3
23.	GE6757	Total Quality Management	3	0	0	3
24.	GE6084	Human Rights	3	0	0	3

ELECTIVE V

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
25.	CE6018	Computer Aided Design of Structures	3	0	0	3
26.	CE6019	Industrial Structures	3	0	0	3
27.	CE6020	Finite Element Techniques	3	0	0	3
28.	CE6021	Repair and Rehabilitation of Structures	3	0	0	3
29.	CE6022	Earthquake Geotechnical Engineering	3	0	0	3

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REGULATIONS - 2013

CURRICULUM AND SYLLABUS I TO VI SEMESTERS (FULL TIME)
MASTER OF COMPUTER APPLICATION

PROGRAMME EDUCATIONAL OBJECTIVES

- I. To excel in problem solving and programming skills in the various computing fields of IT industries
- II. To develop the ability to plan, analyze, design, code, test, implement & maintain a software product for real time system
- III. To promote students capability to set up their own enterprise in various sectors of Computer applications
- IV. To experience the students in finding solutions and developing system based applications for real time problems in various domains involving technical, managerial, economical & social constraints
- V. To prepare the students to pursue higher studies in computing or related disciplines and to work in the fields of teaching and research.

PROGRAMME OBJECTIVES

- a) Understand and Apply mathematical foundation, computing and domain knowledge for the conceptualization of computing model of problems.
- b) Identify, Analyze the computing requirements of a problem and Solve them using computing principles.
- c) Design and Evaluate a computer based system, components and process to meet the specific needs of applications.
- d) Use current techniques and tools necessary for complex computing practices.
- e) Use suitable architecture or platform on design and implementation with respect to performance
- f) Develop and integrate effectively system based components into user environment.
- g) Understand and commit to Cyber regulations and responsibilities in Professional computing practices.
- h) Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
- i) Apply the understanding of management principles with computing knowledge to manage the projects in multidisciplinary environments.
- j) Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
- k) Understand societal, environmental, health, legal, ethical issues within local and global contexts and the consequential responsibilities relevant to professional practice.
- l) Function effectively in a team environment to accomplish a common goal.
- m) Identify opportunities and use innovative ideas to create value and wealth for the betterment of the individual and society.
- n) Use knowledge to analyze, interpret the data and synthesis the information to derive valid conclusions using research methods.
- o) Expertise in developing application with required domain knowledge.

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K. P. S. COLLEGE OF TECHNOLOGY
K. P. S. COLLEGE OF TECHNOLOGY

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 REGULATIONS - 2013
 CURRICULUM I TO VI SEMESTERS (FULL TIME)
 MASTER OF COMPUTER APPLICATION

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA7151	Mathematical Foundation for Computer Applications	3	1	0	4
2.	MC7101	Computer Organization	3	0	0	3
3.	MC7102	Problem Solving and Programming	3	0	0	3
4.	MC7103	Database Management Systems	3	0	0	3
5.	MC7104	Data Structures and Algorithms	3	1	0	4
PRACTICAL						
6.	MC7111	DBMS Laboratory	0	0	3	2
7.	MC7112	Data Structures and Algorithms Laboratory	0	0	3	2
8.	MC7113	Communication Skill Laboratory	1	0	2	2
TOTAL			16	2	8	23

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MC7201	Object Oriented Programming	3	0	0	3
2.	MC7202	Web Programming Essentials	3	0	0	3
3.	MC7203	System Software	3	0	0	3
4.	MC7204	Operating Systems	3	0	0	3
5.	MC7205	Computer Graphics and Multimedia	3	0	0	3
PRACTICAL						
6.	MC7211	Object Oriented Programming Laboratory	0	0	3	2
7.	MC7212	Web Programming Laboratory	0	0	3	2
8.	MC7213	Graphics and Multimedia Laboratory	0	0	3	2
TOTAL			15	0	9	21

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SEMESTER III						
SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MC7301	Computer Networks				
2.	MC7302	Embedded Systems	3	0	0	3
3.	MC7303	Software Engineering	3	0	0	3
4.	MC7304	Professional Ethics	3	0	0	3
5.	MC7305	Internet Programming	3	0	0	3
PRACTICAL						
6.	MC7311	Embedded Systems Laboratory	0	0	3	2
7.	MC7312	Internet Programming Laboratory	0	0	3	2
8.	MC7313	Visual Programming Laboratory	1	0	3	2
TOTAL			16	0	9	21

SEMESTER IV						
SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MC7401	Resource Management Techniques	3	0	0	3
2.	MC7402	Object Oriented Analysis and Design	3	0	0	3
3.	MC7403	Data Warehousing and Data Mining	3	0	0	3
4.	MC7404	Network Programming	3	0	0	3
5.		Elective I	3	0	0	3
PRACTICAL						
6.	MC7411	Software Development- Case Tools Laboratory	0	0	3	2
7.	MC7412	Network Programming Laboratory	0	0	3	2
8.	MC7413	Technical Seminar and Report Writing	0	0	3	2
TOTAL			15	0	9	21

SEMESTER V						
SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MC7501	Web Application Development	3	0	0	3
2.	MC7502	Service Oriented Architecture	3	0	0	3
3.	MC7503	Mobile computing	3	0	0	3
4.		Elective II	3	0	0	3
5.		Elective III	3	0	0	3
PRACTICAL						
6.	MC7511	Advanced Internet Programming Laboratory	0	0	3	2
7.	MC7512	XML and Web Services Laboratory	0	0	3	2
8.	MC7513	Mini Project(Socially Relevant)	0	0	3	2
TOTAL			15	0	9	21

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 KCG COLLEGE OF TECHNOLOGY
 KARAIKUDI, DISTRICT - 626 007.

SEMESTER VI						
SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MC7611	Project Work				
			0	0	24	12
		TOTAL	0	0	24	12

TOTAL NO OF CREDITS:119

LIST OF ELECTIVES

SL.NO.	COURSE CODE	L	T	P	C
ELECTIVE I					
MC7001	Game Programming				
MC7002	Soft Computing	3	0	0	3
MC7003	Accounting and Financial Management	3	0	0	3
MC7004	Energy Aware Computing	3	0	0	3
MC7005	Security in computing	3	0	0	3
MA7071	Numerical and Statistical Methods	3	0	0	3
ELECTIVE II					
MC7006	M-commerce				
MC7007	Health Care Management	3	0	0	3
MC7008	Geological Information Systems	3	0	0	3
MC7009	Human Resource Management	3	0	0	3
MC7010	Enterprise Application Integration	3	0	0	3
MC7011	Big Data Analytics	3	0	0	3
ELECTIVE III					
MC7012	Ad hoc and Sensor networks	3	0	0	3
MC7013	Semantic Web	3	0	0	3
MC7014	Software Testing and Quality Assurance	3	0	0	3
MC7015	Software Project Management	3	0	0	3
MC7016	Cloud Computing	3	0	0	3
MC7017	Network Protocols	3	0	0	3

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KCG COLLEGE OF TECHNOLOGY
KARAPALLE, DISTRICT: KADAPATI, PIN: 520 097.

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 REGULATIONS 2013
 M.E. MANUFACTURING ENGINEERING
 I TO IV SEMESTERS (FULL TIME) CURRICULUM AND SYLLABUS

SEMESTER I						
SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA7165	Applied Probability and Statistics	3	1	0	4
2	MF7101	Advanced Materials Technology	3	0	0	3
3	MF7102	Automated Computer Integrated Manufacturing Systems	3	0	0	3
4	MF7103	Micro Manufacturing	3	0	0	3
5	MF7104	Robot Design and Programming	3	0	0	3
6		Elective I	3	0	0	3
PRACTICAL						
7	MF7111	CAD/CAM Laboratory	0	0	4	2
TOTAL			18	1	4	21

SEMESTER II						
SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MF7201	Optimization Techniques in Manufacturing	3	0	0	3
2	MF7202	Manufacturing Metrology and Quality Engineering	3	0	0	3
3	MF7203	Theory of Metal Forming	3	0	0	3
4	MF7204	MEMS and Nanotechnology	3	0	0	3
5		Elective II	3	0	0	3
6		Elective III	3	0	0	3
PRACTICAL						
7	MF7211	Automation and Metal Forming Laboratory	0	0	4	2
TOTAL			18	0	4	20

SEMESTER III						
SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1		Elective IV	3	0	0	3
2		Elective V	3	0	0	3
3		Elective VI	3	0	0	3
PRACTICAL						
4	MF7311	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

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KARAPAKKAM, CHENNAI - 600 097.

SEMESTER IV

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	MF7411	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 68

LIST OF ELECTIVES FOR M.E. MANUFACTURING ENGINEERING

SEMESTER I (Elective I)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MF7001	Fluid Power Automation	3	0	0	3
2.	MF7002	Design for Manufacture and Assembly	3	0	0	3
3.	MF7003	Advances in Casting and Welding	3	0	0	3
4.	MF7004	Metal Cutting Theory and Practice	3	0	0	3

SEMESTER II (Elective II & III)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MF7005	Finite Element Methods for Manufacturing Engineering	3	1	0	4
2.	MF7006	Materials Management	3	0	0	3
3.	MF7007	Industrial Ergonomics	3	0	0	3
4.	MF7008	Polymers and Composite Materials	3	0	0	3
5.	MF7009	Non-Destructive Evaluation	3	0	0	3
6.	MF7010	Lean Manufacturing	3	0	0	3
7.	MF7011	Quality and Reliability Engineering	3	0	0	3

SEMESTER III (Elective IV, V & VI)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MF7012	Computer Aided Product Design	3	0	0	3
2.	MF7013	Financial Management	3	0	0	3
3.	MF7014	Manufacturing Management	3	0	0	3
4.	MF7015	Research Methodology	3	0	0	3
5.	MF7016	Nanotechnology	3	0	0	3
6.	MF7017	Materials Testing and Characterization Techniques	3	0	0	3
7.	MF7018	Mechatronics	3	0	0	3

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REGULATIONS - 2013

M.E. VLSI DESIGN

I TO IV SEMESTERS CURRICULA AND SYLLABI (FULL TIME)

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA7157	Applied Mathematics for Electronics Engineers	3	1	0	4
2.	VL7101	VLSI Signal Processing	3	0	0	3
3.	VL7102	VLSI Design Techniques	3	0	0	3
4.	VL7103	Solid State Device Modelling and Simulation	3	0	0	3
5.		Elective I	3	0	0	3
6.		Elective II	3	0	0	3
PRACTICAL						
7.	VL7111	VLSI Design Laboratory I	0	0	3	2
TOTAL			18	1	3	21

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	AP7201	Analysis and Design of Analog Integrated Circuits	3	0	0	3
2.	VL7201	CAD for VLSI Circuits	3	0	0	3
3.	VL7202	Low Power VLSI Design	3	0	0	3
4.		Elective III	3	0	0	3
5.		Elective IV	3	0	0	3
6.		Elective V	3	0	0	3
PRACTICAL						
7.	VL7211	VLSI Design Laboratory II	0	0	3	2
TOTAL			18	0	3	20

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	VL7301	Testing of VLSI Circuits	3	0	0	3
2.		Elective VI	3	0	0	3
3.		Elective VII	3	0	0	3
PRACTICAL						
1.	VL7311	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1.	VL7411	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL NO. OF CREDITS:68

ATTESTED


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KARAYALAR, CHENNAI - 600 097.

**LIST OF ELECTIVES
ELECTIVE I**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	AP7008	DSP Integrated Circuits	3	0	0	3
2.	AP7001	Computer Architecture and Parallel Processing	3	0	0	3
3.	AP7202	ASIC and FPGA Design	3	0	0	3
4.	VL7001	Analog and Mixed Mode VLSI Design	3	0	0	3

ELECTIVE II

5.	VL7002	Security Solutions in VLSI	3	0	0	3
6.	VL7003	Genetic Algorithms and its Applications	3	0	0	3
7.	VL7004	Asynchronous System Design	3	0	0	3

ELECTIVE III

8.	CU7002	MEMS and NEMS	3	0	0	3
9.	VL7005	Physical Design of VLSI Circuits	3	0	0	3
10.	VL7006	Analog VLSI Design	3	0	0	3
11.	VL7007	Process and Device Simulation	3	0	0	3

ELECTIVE IV

12.	VL7008	Design of Semiconductor Memories	3	0	0	3
13.	AP7071	Hardware Software Co-Design	3	0	0	3
14.	CU7001	Real Time Embedded Systems	3	0	0	3
15.	VL7009	Nano Scale Transistors	3	0	0	3

ELECTIVE V

16.	AP7016	System on Chip design	3	0	0	3
17.	CP7023	Reconfigurable Computing	3	0	0	3
18.	VL7010	Submicron VLSI Design	3	0	0	3

ELECTIVE VI

19.	AP7301	Electro Magnetic Interference and Compatibility	3	0	0	3
20.	VL7011	Signal Integrity for High Speed Devices	3	0	0	3
21.	VL7012	Mixed signal IC Test and Measurements	3	0	0	3

ELECTIVE VII

22.	AP7010	Data Converters	3	0	0	3
23.	VL7013	VLSI for Wireless Communication	3	0	0	3
24.	VL7014	IP Based VLSI Design	3	0	0	3
25.	VL7015	Nanoscale Devices and Circuit Design	3	0	0	3

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**KCC COLLEGE OF TECHNOLOGY
KARAPPAKAM, CHENNAI - 600 097,**

ANNA UNIVERSITY, CHENNAI
 AFFILIATED INSTITUTIONS
 REGULATIONS 2013
 M.E. ENGINEERING DESIGN
 I TO IV SEMESTERS (FULL TIME) CURRICULUM AND SYLLABUS

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA7169	Advanced Numerical Methods	3	1	0	4
2.	ED7101	Advanced Mechanics of Materials	3	0	0	3
3.	ED7102	Computer Applications in Design	3	0	2	4
4.	ED7103	Quality Concepts in Design	3	0	0	3
5.	ED7104	Vibration Analysis and Control	3	0	2	4
6.		Elective I	3	0	0	3
PRACTICAL						
7.	ED7111	CAD Laboratory	0	0	2	1
TOTAL			18	1	6	22

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	ED7201	Finite Element Methods in Mechanical Design	3	1	0	4
2.	ED7202	Mechanisms Design and Simulation	3	0	2	4
3.	ED7203	Mechanical Behavior of Materials	3	0	0	3
4.	ED7204	Integrated Mechanical Design	3	1	0	4
5.		Elective II	3	0	0	3
6.		Elective III	3	0	0	3
PRACTICAL						
7.	ED7211	Analysis and Simulation Laboratory	0	0	2	1
8.	ED7212	Design Project	0	0	3	2
TOTAL			18	2	7	24

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.		Elective IV	3	0	0	3
2.		Elective V	3	0	0	3
3.		Elective VI	3	0	0	3
PRACTICAL						
4.	ED7311	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

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SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1.	ED7411	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 73

LIST OF ELECTIVES FOR M.E. ENGINEERING DESIGN

SEMESTER I (Elective I)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	ED7001	Optimization Techniques in Design	3	0	0	3
2.	ED7003	Composite Materials and Mechanics	3	0	0	3
3	ED7005	Design of Material Handling Equipments	3	0	0	3

SEMESTER II (Elective II & III)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	ED7006	Plates and Shells	3	0	0	3
2.	ED7007	Modal Analysis of Mechanical Systems	3	0	0	3
3.	ED7008	Advanced Metal Forming Techniques	3	0	0	3
4.	ED7010	Tribology in Design	3	0	0	3
5.	ED7012	Surface Engineering	3	0	0	3

SEMESTER III (Elective IV, V & VI)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	ED7002	Engineering Fracture Mechanics	3	0	0	3
2.	ED7004	Design of Hydraulic and Pneumatic Systems	3	0	0	3
3	ED7009	Design of Pressure Vessel and Piping	3	0	0	3
4.	ED7011	Bearing Design and Rotor Dynamics	3	0	0	3
5	ED7013	Advanced Finite Element Analysis	3	0	0	3
6	IC7072	Computational Fluid Dynamics	3	0	0	3
7	CC7201	Design for Manufacture Assembly and Environments	3	0	0	3

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**KCG COLLEGE OF TECHNOLOGY
KARAIKKAM, CHENNAI - 600 097.**

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS – 2013
M.E. COMPUTER SCIENCE AND ENGINEERING
I TO IV SEMESTERS CURRICULA AND SYLLABI (FULL TIME)

PROGRAM EDUCATIONAL OBJECTIVES (PEO):

Graduates of this M. E. Computer Science and Engineering will be able to

1. Apply the necessary mathematical tools and fundamental & advanced knowledge of computer science & engineering
2. Develop computer/software/network systems understanding the importance of social, business, technical, environmental, and human context in which the systems would work
3. Articulate fundamental concepts, design underpinnings of computer/software/network systems, and research findings to train professionals or to educate engineering students
4. Contribute effectively as a team member/leader, using common tools and environment, in computer science and engineering projects, research, or education
5. Pursue life-long learning and research in selected fields of computer science & engineering and contribute to the growth of those fields and society at large

PROGRAM OUTCOMES:

- Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the conceptualization of engineering models.
- Identify, formulate, research literature and solve complex engineering problems reaching substantiated conclusions using first principles of mathematics and engineering sciences.
- Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- Conduct investigations of complex problems including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
- Create, select and apply appropriate techniques, resources, and modern engineering tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.
- Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- Demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering practice.
- Understand and commit to professional ethics and responsibilities and norms of engineering practice.
- Understand the impact of engineering solutions in a societal context and demonstrate knowledge of and need for sustainable development.
- Demonstrate a knowledge and understanding of management and business practices, such as risk and change management, and understand their limitations.
- Recognize the need for, and have the ability to engage in independent and life-long learning.

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KARAPAKKAM, CHENNAI - 600 097.

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS – 2013
M.E. COMPUTER SCIENCE AND ENGINEERING
I TO IV SEMESTERS CURRICULA AND SYLLABI (FULL TIME)

SEMESTER I

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA7155	Applied Probability and Statistics	3	1	0	4
2.	CP7101	Design and Management of Computer Networks	3	0	0	3
3.	CP7102	Advanced Data Structures and Algorithms	3	0	0	3
4.	CP7103	Multicore Architectures	3	0	0	3
5.		Elective I	3	0	0	3
6.		Elective II	3	0	0	3
PRACTICAL						
7.	CP7111	Advanced Data Structures Laboratory	0	0	4	2
8.	CP7112	Case Study - Network Design (Team Work)	0	0	2	1
TOTAL			18	1	6	22

SEMESTER II

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CP7201	Theoretical Foundations of Computer Science	3	1	0	4
2.	CP7202	Advanced Databases	3	0	0	3
3.	CP7203	Principles of Programming Languages	3	0	0	3
4.	CP7204	Advanced Operating Systems	3	0	0	3
5.		Elective III	3	0	0	3
6.		Elective IV	3	0	0	3
PRACTICAL						
7.	CP7211	Advanced Databases Laboratory	0	0	4	2
8.	CP7212	Case Study - Operating Systems Design (Team Work)	0	0	2	1
TOTAL			18	1	6	22

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CP7301	Software Process and Project Management	3	1	0	4
2.		Elective V	3	0	0	3
3.		Elective VI	3	0	0	3
4.		Elective VII	3	0	0	3
PRACTICAL						
5.	CP7311	Project Work (Phase I)	0	0	12	6
TOTAL			12	1	12	19

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K. J. Somaiya Institute of Engineering & Information Technology, Gandhinagar - 600 097.

ELECTIVE IV

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7015	Model Checking and Program Verification	3	0	0	3
2.	CP7016	Embedded Software Development	3	0	0	3
3.	IF7202	Cloud Computing	3	0	0	3
4.	CP7017	Data Visualization Techniques	3	0	0	3
5.	NE7005	Protocols and Architecture for Wireless Sensor Networks	3	0	0	3
6.	CP7018	Language Technologies	3	0	0	3

ELECTIVE V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	NE7012	Social Network Analysis	3	0	0	3
2.	CP7019	Managing Big Data	3	0	0	3
3.	NE7011	Mobile Application Development	3	0	0	3
4.	CP7020	Bio-inspired Computing	3	0	0	3
5.	CP7021	Medical Image Processing	3	0	0	3
6.	CP7022	Software Design	3	0	0	3

ELECTIVE VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7023	Reconfigurable Computing	3	0	0	3
2.	IF7013	Energy Aware Computing	3	0	0	3
3.	CP7024	Information Retrieval Techniques	3	0	0	3
4.	CP7025	Data Mining Techniques	3	0	0	3
5.	IF7002	Bio Informatics	3	0	0	3
6.	CP7026	Software Quality Assurance	3	0	0	3

ELECTIVE VII

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7027	Multi Objective Optimization Techniques	3	0	0	3
2.	CP7028	Enterprise Application Integration	3	0	0	3
3.	CP7029	Information Storage Management	3	0	0	3
5.	CP7030	Robotics	3	0	0	3
6.	CP7031	Compiler Optimization Techniques	3	0	0	3

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SEMESTER-VIII
Elective IV

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	IE6605	Production Planning and Control	3	0	0	3
2.	MG6071	Entrepreneurship Development	3	0	0	3
3.	ME6013	Design of Pressure Vessels and Piping	3	0	0	3
4.	ME6014	Computational Fluid Dynamics	3	0	0	3
5.	ME6015	Operations Research	3	0	0	3
6.	GE6084	Human Rights	3	0	0	3

Elective V

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	ME6016	Advanced I.C. Engines	3	0	0	3
2.	ME6017	Design of Heat Exchangers	3	0	0	3
3.	ME6018	Additive Manufacturing	3	0	0	3
4.	ME6019	Non Destructive Testing and Materials	3	0	0	3
5.	ME6020	Vibration and Noise Control	3	0	0	3

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ANNA UNIVERSITY, CHENNAI

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R - 2008**B.E. AERONAUTICAL ENGINEERING
II TO VIII SEMESTERS CURRICULUM 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

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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

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KCG COLLEGE OF TECHNOLOGY

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	Transforms And Partial Differential Equations	3	1	0	4
AE 2201	Mechanics of Machines	3	1	0	4
AE 2202	Aero Engineering Thermodynamics	3	1	0	4
ME 2204	Fluid Mechanics and Machinery	3	1	0	4
AE 2203	Solid Mechanics	3	1	0	4
AE 2204	Elements of Aeronautics	3	0	0	3
PRACTICAL					
AE 2206	Strength of Materials Lab	0	0	3	2
ME 2208	Fluid Mechanics and Machinery Lab	0	0	3	2
AE 2207	Thermodynamics Lab	0	0	3	2
TOTAL		18	5	9	29

SEMESTER IV

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

CODE NO.	COURSE TITLE	L	T	P	C.
THEORY					
MA 2264	Numerical Methods	3	1	0	4
AE 2251	Aerodynamics - I	3	0	0	3
AE 2252	Aircraft Systems and Instruments	3	0	0	3
AE 2253	Production Technology	3	0	0	3
AE 2254	Aircraft Structures - I	3	1	0	4
AE 2255	Propulsion-I	3	0	0	3

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PRACTICAL					
AE 2257	Aircraft Structures Lab - I	0	0	3	2
AE 2258	Aerodynamics Lab	0	0	3	2
AE 2259	Aircraft Component Drawing	0	0	4	2
AT 2206	Manufacturing Technology Lab	0	0	3	2
TOTAL		18	2	13	28

SEMESTER V

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

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
AE 2301	Flight Dynamics	3	0	0	3
AE 2302	Aircraft Structures - II	3	1	0	4
AE 2303	Aerodynamics - II	3	0	0	3
AE 2304	Propulsion -II	3	0	0	3
EE 2365	Control Engineering	3	0	0	3
GE 2021	Environmental Science and Engineering	3	0	0	3
PRACTICAL					
AE2305	Aircraft Structures Laboratory - II	0	0	3	2
AE2306	Propulsion Laboratory	0	0	3	2
AE2307	CAD/CAM Laboratory	0	0	3	2
GE2321	Communication Skills Laboratory	0	0	4	2
TOTAL		18	1	13	27

SEMESTER VI

Code No.	Course Title	L	T	P	C
THEORY					
MG2351	Principles of Management	3	0	0	3
AE2351	Finite Element Method	3	0	0	3
AE2352	Experimental Stress Analysis	3	0	0	3
AE2353	Wind Tunnel Techniques	3	0	0	3
AE2354	High temperature materials	3	0	0	3
	Elective – I	3	0	0	3
PRACTICAL					
AE2355	Aero Engine Laboratory	0	0	3	2
AE2356	Aircraft Design Project - I	0	0	3	2
AE2357	Airframe Laboratory	0	0	3	2
TOTAL		18	0	9	24

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SEMESTER VII

Code No.	Course Title	L	T	P	C
THEORY					
GE 2022	Total Quality Management	3	0	0	3
AE2401	Avionics	3	0	0	3
AE2402	Computational Fluid Dynamics	3	0	0	3
AE2403	Vibrations And Elements of Aeroelasticity	3	0	0	3
	Elective – II	3	0	0	3
	Elective – III	3	0	0	3
PRACTICAL					
AE2404	Aircraft Design Project - II	0	0	3	2
AE2405	Aircraft Systems Laboratory	0	0	3	2
AE2406	Avionics Laboratory	0	0	3	2
	TOTAL	18	0	9	24

SEMESTER VIII

Code No.	Course Title	L	T	P	C
THEORY					
AE2451	Composite Materials And Structures	3	0	0	3
	Elective – IV	3	0	0	3
	Elective – V	3	0	0	3
PRACTICAL					
AE2452	Comprehension	0	0	2	1
AE2453	Project Work	0	0	12	6
	TOTAL	9	0	14	16

SEMESTER VI

ELECTIVE – I

Code No.	Course Title	L	T	P	C
AE2021	Theory of Elasticity	3	0	0	3
AE2022	Aircraft General Engineering And Maintenance Practices	3	0	0	3
AE2023	Space Mechanics	3	0	0	3
AE2024	Heat Transfer	3	0	0	3

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SEMESTER VII**ELECTIVES- II**

Code No.	Course Title	L	T	P	C
AE2025	Helicopter Theory	3	0	0	3
AE2029	Theory of Plates and Shells	3	0	0	3
AE2030	Fatigue And Fracture	3	0	0	3

ELECTIVES- III

Code No.	Course Title	L	T	P	C
AE2026	Industrial Aerodynamics	3	0	0	3
AE2027	Airframe Maintenance and Repair	3	0	0	3
AE2028	Aero Engine Maintenance and Repair	3	0	0	3

SEMESTER VIII**ELECTIVES - IV**

Code No.	Course Title	L	T	P	C
AE2031	Hypersonic Aerodynamics	3	0	0	3
AE2032	Experimental Aerodynamics	3	0	0	3
AE2033	Rockets and Missiles	3	0	0	3
AE2034	Structural Dynamics	3	0	0	3

ELECTIVES -V

Code No.	Course Title	L	T	P	C
AE2035	Air Traffic Control and Planning	3	0	0	3
AE2036	Production Planning And Control	3	0	0	3
AE2037	Engine System And Control	3	0	0	3

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B.E. CIVIL ENGINEERING

II - VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER II

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
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
PRACTICAL						
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 (For branches under Electrical Faculty)	0	0	3	2
9. c	EC2155	Circuits and Devices Laboratory (For branches under I & C Faculty)	0	0	3	2
TOTAL : 28 CREDITS						
10.	-	English Language Laboratory*	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.

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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)

COURSE CODE	COURSE TITLE	L	T	P	C
THEORY					
MA 2211	Transforms and Partial Differential Equations	3	1	0	4
GE 2021	Environmental Science and Engineering	3	0	0	3
AG 2211	Applied Geology	3	0	0	3
CE 2201	Mechanics of Solids	3	1	0	4
CE 2202	Mechanics of Fluids	3	1	0	4
CE 2203	Construction Techniques, Equipment and Practice	4	0	0	4
CE 2204	Surveying- I	3	0	0	3
PRACTICAL					
CE 2207	Survey Practical - I	0	0	4	2
CE 2208	Computer Aided Building Drawing	0	0	4	2
TOTAL		22	3	8	29

SEMESTER IV

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

COURSE CODE	COURSE TITLE	L	T	P	C
THEORY					
MA 2264	Numerical Methods	3	1	0	4
CE 2251	Soil Mechanics	3	0	0	3
CE 2252	Strength of Materials	3	1	0	4
CE 2253	Applied Hydraulic Engineering	3	1	0	4
CE 2254	Surveying - II	3	0	0	3
CE 2255	Highway Engineering	3	0	0	3
PRACTICAL					
CE 2257	Strength of Materials Lab	0	0	3	2
CE 2258	Hydraulic Engineering Laboratory	0	0	3	2
CE 2259	Survey Practical - II	0	0	4	2
TOTAL		18	3	10	27

SEMESTER V

Code No.	Course Title	L	T	P	C
THEORY					
CE2301	Irrigation Engineering	3	0	0	3
CE2302	Structural Analysis I	3	1	0	4
CE2303	Railways, Airports and Harbour Engineering	4	0	0	4
CE2304	Environmental Engineering I	3	0	0	3
CE2305	Foundation Engineering	3	0	0	3
CE2306	Design of RC Elements	3	1	0	4
PRACTICAL					
GE2321	Communication Skills Laboratory**	0	0	4	2
CE2307	Concrete and Highway Engineering Lab	0	0	3	2
CE2308	Soil Mechanics Laboratory	0	0	3	2
TOTAL		19	2	10	27

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SEMESTER VI

Code No.	Course Title	L	T	P	C
THEORY					
MG2351	Principles of Management	3	0	0	3
CE2351	Structural Analysis – II	3	1	0	4
CE2352	Design of Steel Structures	3	1	0	4
CE2353	Construction Planning & Scheduling	3	0	0	3
CE2354	Environmental Engineering II	3	0	0	3
E1***	Elective – I	3	0	0	3
PRACTICAL					
CE2355	Environmental and Irrigation Engineering Drawing	0	0	4	2
CE2356	Environmental Engineering Laboratory	0	0	3	2
CE2357	Survey Camp	-	-	-	3
TOTAL		18	2	7	27

SEMESTER VII

Code No.	Course Title	L	T	P	C
THEORY					
CE2401	Design of Reinforced Concrete & Brick Masonry Structures	3	1	0	4
CE2402	Estimation and Quantity Surveying	3	0	0	3
CE2403	Basics of Dynamics and Aseismic Design	3	0	0	3
CE2404	Prestressed Concrete Structures	3	0	0	3
E2***	Elective – II	3	0	0	3
E3***	Elective – III	3	0	0	3
PRACTICAL					
CE2405	Computer Aided Design and Drafting Laboratory	0	0	4	2
CE2406	Design Project	0	0	4	2
TOTAL		18	1	8	23

SEMESTER VIII

Code No.	Course Title	L	T	P	C
THEORY					
CE2451	Engineering Economics and Cost Analysis	3	0	0	3
E4***	Elective – IV	3	0	0	3
E5***	Elective – V	3	0	0	3
PRACTICAL					
CE2453	Project Work	0	0	12	6
TOTAL		9	0	15	15

** No Examination

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KARAPATI

LIST OF ELECTIVES**SEMESTER – VI****ELECTIVE - I**

Code No.	Course Title	L	T	P	C
CE2021	Hydrology	3	0	0	3
CE2022	Cartography	3	0	0	3
CE2023	Electronic Surveying	3	0	0	3
CE2024	Remote Sensing Techniques and GIS	3	0	0	3
CE2025	Architecture	3	0	0	3
GE2022	Total Quality Management	3	0	0	3
GE2023	Fundamentals of Nanoscience	3	0	0	3
GE2025	Professional Ethics in Engineering	3	0	0	3
GE2071	Intellectual Property Rights (IPR)	3	0	0	3
GE2072	Indian Constitution and Society	3	0	0	3

SEMESTER – VII**ELECTIVE - II**

Code No.	Course Title	L	T	P	C
CE2026	Traffic Engineering and Management	3	0	0	3
CE2027	Housing Planning and Management	3	0	0	3
CE2028	Ground Water Engineering	3	0	0	3
CE2029	Management of Irrigation Systems	3	0	0	3
CE2030	Coastal Zone Management	3	0	0	3
CE2031	Water Resources Engineering	3	0	0	3
CE2032	Pavement Engineering	3	0	0	3
CE2033	Ground Improvement Techniques	3	0	0	3
GE2073	Contract Laws and Regulations	3	0	0	3

ELECTIVE – III

Code No.	Course Title	L	T	P	C
CE2034	Introduction to Soil Dynamics and Machine Foundations	3	0	0	3
CE2035	Rock Engineering	3	0	0	3
CE2036	Environmental Impact Assessment of Civil Engineering Projects	3	0	0	3
CE2037	Industrial Waste Management	3	0	0	3
CE2038	Air Pollution Management	3	0	0	3
CE2039	Municipal Solid Waste Management	3	0	0	3
CE2040	Ecological Engineering	3	0	0	3

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SEMESTER - VIII

ELECTIVE - IV

Code No.	Course Title	L	T	P	C
CE2041	Bridge Structures	3	0	0	3
CE2042	Storage Structures	3	0	0	3
CE2043	Design of Plate and Shell Structures	3	0	0	3
CE2044	Tall Buildings	3	0	0	3
CE2045	Prefabricated structures	3	0	0	3
CE2046	Wind Engineering	3	0	0	3

ELECTIVE - V

Code No.	Course Title	L	T	P	C
CE2047	Computer Aided Design of Structures	3	0	0	3
CE2048	Industrial Structures	3	0	0	3
CE2049	Smart Structures and smart Materials	3	0	0	3
CE2050	Finite Element Techniques	3	0	0	3
CE2071	Repair and Rehabilitation of Structures	3	0	0	3

- The lab examinations will be held only in the second semester.

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B.E. COMPUTER SCIENCE AND 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

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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

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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
CS 2201	<u>Data Structures</u>	3	0	0	3
CS 2202	<u>Digital Principles and Systems Design</u>	3	1	0	4
CS 2203	<u>Object Oriented Programming</u>	3	0	0	3
CS 2204	<u>Analog and Digital Communication</u>	3	1	0	4
GE 2021	<u>Environmental Science and Engineering</u>	3	0	0	3
PRACTICAL					
CS 2207	<u>Digital Lab</u>	0	0	3	2
CS 2208	<u>Data Structures Lab</u>	0	0	3	2
CS 2209	<u>Object Oriented Programming Lab</u>	0	0	3	2
Total		18	3	9	27

SEMESTER IV

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

Code No.	Course Title	L	T	P	C
THEORY					
MA 2262	<u>Probability and Queueing Theory</u>	3	1	0	4
CS 2251	<u>Design and Analysis of Algorithms</u>	3	1	0	4
CS 2252	<u>Microprocessors and Microcontrollers</u>	3	0	0	3
CS 2253	<u>Computer Organization and Architecture</u>	3	0	0	3
CS 2254	<u>Operating Systems</u>	3	0	0	3
CS 2255	<u>Database Management Systems</u>	3	0	0	3
PRACTICAL					
CS 2257	<u>Operating Systems Lab</u>	0	0	3	2
CS 2258	<u>Data Base Management Systems Lab</u>	0	0	3	2
CS 2259	<u>Microprocessors Lab</u>	0	0	3	2
Total		18	2	9	26

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SEMESTER V

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

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
CS2301	Software Engineering	3	0	0	3
MA2265	Discrete Mathematics	3	1	0	4
CS2302	Computer Networks	3	0	0	3
CS2303	Theory of Computation	3	1	0	4
CS2304	System Software	3	1	0	4
CS2305	Programming Paradigms	3	0	0	3
PRACTICAL					
CS2307	Network Lab	0	0	3	2
CS2308	System Software Lab	0	0	3	2
CS2309	Java Lab	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					
CS2351	Artificial Intelligence	3	0	0	3
CS2352	Principles of Compiler Design	3	0	2	4
CS2353	Object Oriented Analysis and Design	3	0	0	3
CS2354	Advanced Computer Architecture	3	0	0	3
	Elective – I	3	0	0	3
	Elective – II	3	0	0	3
PRACTICAL					
CS2357	Object Oriented Analysis and Design Lab	0	0	3	2
GE2321	Communication Skills Lab	0	0	4	2
CS2358	Internet Programming Lab	1	0	3	2
TOTAL		19	0	12	25

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SEMESTER VII

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

Code No.	Course Title	L	T	P	C
THEORY					
MG2452	Engineering Economics & Financial Accounting	3	0	0	3
CS2401	Computer Graphics	3	0	0	3
CS2402	Mobile and Pervasive Computing	3	0	0	3
CS2403	Digital Signal Processing	3	0	0	3
	Elective III	3	0	0	3
	Elective IV	3	0	0	3
PRACTICAL					
CS2405	Computer Graphics Lab	0	0	3	2
CS2406	Open Source Lab	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					
CS2451	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
CS2021	Multicore Programming	3	0	0	3
CS2022	Visual Programming	3	0	0	3
CS2023	Advanced JAVA Programming	3	0	0	3
CS2024	Parallel Programming	3	0	0	3
IT2353	Web Technology	3	0	0	3

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SEMESTER VI – Elective II

Code No.	Course Title	L	T	P	C
CS2028	<u>UNIX Internals</u>	3	0	0	3
MA2264	<u>Numerical Methods</u>	3	1	0	4
IT2354	<u>Embedded Systems</u>	3	0	0	3
CS2029	<u>Advanced Database Technology</u>	3	0	0	3
IT2043	<u>Knowledge Management</u>	3	0	0	3
CS2030	<u>High Performance Microprocessors</u>	3	0	0	3

SEMESTER VII – Elective III

Code No.	Course Title	L	T	P	C
MG2453	<u>Resource Management Techniques</u>	3	0	0	3
CS2032	<u>Data Warehousing and Data Mining</u>	3	0	0	3
CS2033	<u>Real Time Systems</u>	3	0	0	3
CS2034	<u>TCP/IP Design and Implementation</u>	3	0	0	3
CS2035	<u>Natural Language Processing</u>	3	0	0	3
IT2024	<u>User Interface Design</u>	3	0	0	3
IT2401	<u>Service Oriented Architecture</u>	3	0	0	3

SEMESTER VII – Elective IV

Code No.	Course Title	L	T	P	C
CS2040	<u>Advanced Operating Systems</u>	3	0	0	3
CS2041	<u>C# and .NET Framework</u>	3	0	0	3
IT2352	<u>Cryptography and Network Security</u>	3	0	0	3
IT2061	<u>Systems Modeling & Simulation</u>	3	0	0	3
GE2022	<u>Total Quality Management</u>	3	0	0	3
IT2351	<u>Network Programming and Management</u>	3	0	0	3
IT2032	<u>Software Testing</u>	3	0	0	3
CS2045	<u>Wireless Networks</u>	3	0	0	3

ATTESTED

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
 KARAIKUNNAM, CHENNAI - 600 097.

SEMESTER VIII – Elective V

Code No.	Course Title	L	T	P	C
GE2071	Intellectual Property Rights	3	0	0	3
CS2051	Graph Theory	3	0	0	3
IT2042	Information Security	3	0	0	3
CS2053	Soft Computing	3	0	0	3
IT2023	Digital Image Processing	3	0	0	3
CS2055	Software Quality Assurance	3	0	0	3
CS2056	Distributed Systems	3	0	0	3
CS2057	Knowledge Based Decision Support Systems	3	0	0	3
GE2025	Professional Ethics in Engineering	3	0	0	3
GE2023	Fundamental of Nano Science	3	0	0	3

SEMESTER VIII – Elective VI

Code No.	Course Title	L	T	P	C
GE2072	Indian Constitution and Society	3	0	0	3
CS2060	High Speed Networks	3	0	0	3
CS2061	Robotics	3	0	0	3
IT2403	Software Project Management	3	0	0	3
CS2062	Quantum Computing	3	0	0	3
CS2063	Grid Computing	3	0	0	3
CS2064	Agent Based Intelligent Systems	3	0	0	3
IT2033	Bio Informatics	3	0	0	3
IT2064	Speech Processing	3	0	0	3

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KARAIKAM, CHENNAI - 600 097.**

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS

R - 2008

B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

II - VIII SEMESTERS CURRICULUM AND SYLLABI

SEMESTER II

CURRICULUM

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			

ATTESTED

1


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 KADAPPALE, CHENNAI - 600 097.

10.	-	English Language Laboratory *	0	0	2	-
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* 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

ATTESTED



PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAIKKAM, CHENNAI - 605 097.

SEMESTER III

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA 2211	<u>Transforms and Partial Differential Equations</u>	3	1	0	4
2.	EE 2201	<u>Measurements & Instrumentation</u>	3	0	0	3
3.	EE 2202	<u>Electromagnetic Theory</u>	3	1	0	4
4.	GE 2211	<u>Environmental Science and Engineering</u>	3	0	0	3
5.	EE 2203	<u>Electronic Devices & Circuits</u>	3	0	0	3
6.	EE 2204	<u>Data Structures and Algorithms</u>	3	1	0	4
PRACTICAL						
1.	EE 2207	<u>Electron Devices and Circuits Laboratory</u>	0	0	3	2
2.	EE 2209	<u>Data Structures and Algorithms Laboratory</u>	0	0	3	2
3.	EE 2208	<u>Measurements & Instrumentation Laboratory</u>	0	0	3	2
TOTAL			18	3	9	27

SEMESTER IV

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA 2264	<u>Numerical Methods</u>	3	1	0	4
2.	EE 2251	<u>Electrical Machines – I</u>	3	1	0	4
3.	EE 2252	<u>Power Plant Engineering</u>	3	1	0	4
4.	EE 2253	<u>Control Systems</u>	3	1	0	4
5.	EE 2254	<u>Linear Integrated Circuits and Applications</u>	3	0	0	3
6.	EE 2255	<u>Digital Logic Circuits</u>	3	1	0	4
PRACTICAL						
1.	EE 2257	<u>Control Systems Laboratory</u>	0	0	3	2
2.	EE 2258	<u>Linear and Digital Integrated Circuits Laboratory</u>	0	0	3	2
3.	EE 2259	<u>Electrical Machines Laboratory – I</u>	0	0	3	2
TOTAL			18	5	9	29

ATTESTED

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
 KARAIKAL, DISTRICT KARAIKAL, TAMIL NADU - 605 007.

SEMESTER V

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
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
PRACTICAL						
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	T	P	C
THEORY						
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
PRACTICAL						
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

ATTESTED

PRINCIPAL
XCG COLLEGE OF TECHNOLOGY
 KARAYAKKAM, Dist. Palakkad, Kerala-689 097.

SEMESTER VII

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
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
PRACTICAL						
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)

THEORY			L	T	P	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
PRACTICAL						
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	P	C
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

ATTESTED


PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
KOTLA, WARANGAL, DISTRICT - 506007.

ELECTIVE II

7.	EI2311	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 Control	3	0	0	3
14.	EE2030	Operations Research	3	0	0	3
15.	EI2403	VLSI Design	3	0	0	3
16.	EE2032	High Voltage Direct Current Transmission	3	0	0	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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KCG COLLEGE OF TECHNOLOGY
 KASAPATUR, CHENNAI - 600 097.

ANNA UNIVERSITY, CHENNAI

AFFILIATED INSTITUTIONS

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	-

ATTESTED

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KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.

- * 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

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PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAIKAL, CHENNAI - 600 097.

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	Transforms and Partial Differential Equations	3	1	0	4
EC 2201	Electrical Engineering	3	0	0	3
EC 2202	Data Structures and Object Oriented Programming in C++	3	0	0	3
EC 2203	Digital Electronics	3	1	0	4
EC 2204	Signals and systems	3	1	0	4
EC 2205	Electronic Circuits- I	3	1	0	4
PRACTICAL					
EC 2207	Digital Electronics Lab	0	0	3	2
EC 2208	Electronic Circuits Lab I	0	0	3	2
EC 2209	Data structures and Object Oriented Programming Lab	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	Probability and Random Processes	3	1	0	4
EC 2251	Electronic Circuits II	3	1	0	4
EC 2252	Communication Theory	3	1	0	4
EC 2253	Electromagnetic Fields	3	1	0	4
EC 2254	Linear Integrated Circuits	3	0	0	3
EC 2255	Control Systems	3	0	0	3
PRACTICAL					
EC 2257	Electronics circuits II and simulation lab	0	0	3	2
EC 2258	Linear Integrated Circuit Lab	0	0	3	2
EC 2259	Electrical Engineering and Control System Lab	0	0	3	2
TOTAL		18	4	9	28

ATTESTED


PRINCIPAL
KCC COLLEGE OF TECHNOLOGY
KARAIKUNNAM, ELURUPATTI - 601 107.

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

ATTESTED


PRINCIPAL
 KCE COLLEGE OF ENGINEERING AND TECHNOLOGY
 BANGALORE

SEMESTER VII

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

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
EC2401	Wireless Communication	3	0	0	3
EC2402	Optical Communication and Networks	3	0	0	3
EC2403	RF and Microwave Engineering	3	0	0	3
	Elective II	3	0	0	3
	Elective III	3	0	0	3
	Elective IV	3	0	0	3
PRACTICAL					
EC2404	Electronics System Design Lab	0	0	3	2
EC2405	Optical & Microwave Lab	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	Medical Electronics	3	0	0	3
EC2022	Operating Systems	3	0	0	3
EC2023	Solid State Electronic Devices	3	0	0	3
IT2064	Speech Processing	3	0	0	3
MA2264	Numerical Methods	3	1	0	4
CS2021	Multicore Programming	3	0	0	3

SEMESTER VII - Elective II

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

ATTESTED

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PRINCIPAL
 KCR COLLEGE OF ENGINEERING

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

ATTESTED

PRINCIPAL

KCG COLLEGE

ANNA UNIVERSITY, CHENNAI

AFFILIATED INSTITUTIONS

R - 2008

B.E. ELECTRONICS AND INSTRUMENTATION 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	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
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	-

ATTESTED


PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 087.

* 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

ATTESTED



PRINCIPAL
KCB COLLEGE OF TECHNOLOGY
KARAPPURAM, DISTRICT - KANNIYAKUMARI

SEMESTER III

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

THEORY			L	T	P	C
1.	MA 2211	<u>Transforms and Partial Differential Equations</u>	3	1	0	4
2.	GE 2211	<u>Environmental Science and Engineering</u>	3	0	0	3
3.	EI 2201	<u>Electrical Machines</u>	3	1	0	4
4.	EI 2203	<u>Electronic Devices and Circuits</u>	3	0	0	3
5.	EE 2204	<u>Data Structures and Algorithms</u>	3	1	0	4
6.	EI 2202	<u>Electrical Measurements</u>	3	1	0	4
PRACTICAL						
1.	EE 2207	<u>Electron Devices and Circuits Laboratory</u>	0	0	3	2
2.	EE 2209	<u>Data Structures and Algorithms Laboratory</u>	0	0	3	2
3.	EI 2208	<u>Electrical Machines Laboratory</u>	0	0	3	2
TOTAL			18	4	9	28

SEMESTER IV

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

THEORY			L	T	P	C
1.	EE 2253	<u>Control Systems</u>	3	1	0	4
2.	EI 2251	<u>Industrial Instrumentation - I</u>	3	0	0	3
3.	EI 2252	<u>Transducer Engineering</u>	3	0	0	3
4.	EI 2253	<u>Digital logic Circuits</u>	3	1	0	4
5.	EE 2254	<u>Linear Integrated Circuits and Applications</u>	3	0	0	3
6.	EI 2254	<u>Applied Thermodynamics</u>	3	1	0	4
PRACTICAL						
1.	EI 2257	<u>Transducers and Measurements Laboratory</u>	0	0	3	2
2.	EI 2258	<u>Thermodynamics Laboratory</u>	0	0	3	2
3.	EE 2258	<u>Linear and Digital Integrated circuits Laboratory</u>	0	0	3	2
TOTAL			18	3	9	27

ATTESTED

PRINCIPAL
KCB COLLEGE OF TECHNOLOGY
 KARAPALLYAM, CHENNAI - 600 097.

SEMESTER V

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	EC2312	<u>Microprocessor and Microcontroller</u>	3	0	0	3
2.	EC2315	<u>Communication Engineering</u>	3	0	0	3
3.	CS2311	<u>Object Oriented Programming</u>	3	0	0	3
4.	EI2301	<u>Industrial Electronics</u>	3	0	0	3
5.	EI2302	<u>Analytical Instruments</u>	3	0	0	3
6.	EI2303	<u>Industrial Instrumentation – II</u>	3	0	0	3
PRACTICAL						
1.	EC2313	<u>Microprocessor and Microcontroller Lab</u>	0	0	3	2
2.	CS2312	<u>Object Oriented Programming Laboratory</u>	0	0	3	2
3.	GE2321	<u>Communication Skills Laboratory</u>	0	0	4	2
4.	EI2304	<u>Industrial Instrumentation Laboratory</u>	0	0	3	2
TOTAL			18	0	13	26

SEMESTER VI

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	EI2351	<u>Modern Electronic Instrumentation</u>	3	0	0	3
2.	EI2352	<u>Process Control</u>	3	1	0	4
3.	EI2353	<u>Digital System Design</u>	3	0	0	3
4.	EC2361	<u>Digital Signal Processing</u>	3	1	0	4
5.	CS2364	<u>Embedded System</u>	3	0	0	3
6.	EI2311	<u>Biomedical Instrumentation</u>	3	0	0	3
PRACTICAL						
1.	EI2355	<u>Communication and DSP Laboratory</u>	0	0	3	2
2.	EI2356	<u>Process Control System Lab</u>	0	0	3	2
3.	EI2357	<u>Virtual Instrumentation Lab</u>	0	0	3	2
TOTAL			18	2	9	26

ATTESTED



PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
42/2, Anna Salai, Chennai - 600 024

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	EI2401	Industrial Data Networks				
2.	EI2402	Logic and Distributed Control System	3	0	0	3
3.	EI2403	VLSI Design	3	0	0	3
4.	EI2404	Fibre Optics and Laser Instruments	3	0	0	3
5.	E1	Elective – I	3	0	0	3
6.	E2	Elective – II	3	0	0	3
PRACTICAL						
1.	EI2405	VLSI Lab				
2.	EI2406	Instrumentation System Design Laboratory	0	0	3	2
3.	EI2407	Comprehension	0	0	3	2
			0	0	2	1
TOTAL			18	0	8	23

SEMESTER VIII

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

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MG2351	Principles of Management				
2.	E3	Elective – III	3	0	0	3
3.	E4	Elective – IV	3	0	0	3
PRACTICAL						
1.	EI2451	Project Work				
			0	0	12	6
TOTAL			9	0	12	15

B.E ELECTRONICS AND INSTRUMENTATION ENGINEERING

LIST OF ELECTIVES - R 2008

ELECTIVE I

SL.NO	CODE NO.	COURSE TITLE	L	T	P	C
1.	CS2351	Artificial Intelligence	3	0	0	3
2.	CS2071	Computer Architecture	3	0	0	3
3.	CS2411	Operating Systems	3	0	0	3
4.	CS2070	Visual Languages and Applications	3	0	0	3

ATTESTED

G. P.

PRINCIPAL
KCB COLLEGE OF TECHNOLOGY
P.O. No. 100/2007, 100/107,

ELECTIVE II

5.	EI2021	Power Plant Instrumentation	3	0	0	3
6.	EI2022	Instrumentation in Petrochemical Industries	3	0	0	3
7.	EI2023	Micro Electro Mechanical Systems	3	0	0	3
8.	GE2023	Fundamentals of NanoScience	3	0	0	3

ELECTIVE III

9.	EC2055	Digital Image Processing	3	0	0	3
10.	EC2056	Advanced Communication Engineering	3	0	0	3
11.	EC2057	Advanced Digital Signal Processing	3	0	0	3
12.	EE2023	Robotics and Automation	3	0	0	3

ELECTIVE IV

13.	GE2022	Total Quality Management	3	0	0	3
14.	GE2025	Professional Ethics In Engineering	3	0	0	3
15.	IC2401	Digital Control System	3	0	0	3
16.	CS2461	Applied Soft Computing	3	0	0	3

ATTESTED


PRINCIPAL
KCE COLLEGE OF TECHNOLOGY
 KARUNATAK

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
R-2008
B.TECH. INFORMATION TECHNOLOGY
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>	0	1	2	2

ATTESTED


PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
 K.

		(For non-circuits branches)				
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

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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

ATTESTED

G. P.
PRINCIPAL

KGS COLLEGE OF ENGINEERING

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	Transforms and Partial Differential Equations				
CS 2203	Object Oriented Programming	3	1	0	4
CS 2202	Digital Principles and Systems Design	3	0	0	3
IT 2201	Data Structures and Algorithms	3	1	0	4
IT 2202	Principles of Communication	3	0	0	3
GE 2021	Environmental Science & Engineering	3	1	0	4
PRACTICAL					
CS 2207	Digital Lab				
IT 2205	Data Structures and Algorithms Lab	0	0	3	2
CS 2209	Object Oriented Programming Lab	0	0	3	2
		0	0	3	2
TOTAL		18	3	9	27

SEMESTER IV

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

Code No.	Course Title	L	T	P	C
THEORY					
MA 2262	Probability and Queueing Theory				
CS 2255	Database Management Systems	3	1	0	4
CS2252	Microprocessors and Microcontrollers	3	0	0	3
CS 2253	Computer Organization and Architecture	3	0	0	3
CS 2254	Operating Systems	3	0	0	3
IT 2251	Software Engineering and Quality Assurance	3	0	0	3
PRACTICAL					
CS 2258	Database Management Systems Lab				
CS 2257	Operating System Lab	0	0	3	2
CS 2259	Microprocessors Lab	0	0	3	2
		0	0	3	2
TOTAL		18	1	9	25

ATTESTED

PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAIKAM, CHENNAI - 600 097.

SEMESTER V

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

Code No.	Course Title	L	T	P	C
THEORY					
IT2301	Java Programming				
MG2452	Engineering Economics & Financial Accounting	3	0	0	3
CS2304	System Software	3	0	0	3
CS2302	Computer Networks	3	1	0	4
CS2403	Digital Signal Processing	3	0	0	3
IT2302	Information Theory and Coding	3	0	0	3
PRACTICAL					
CS2308	System Software Lab				
IT2305	Java Programming Lab	0	0	3	2
GE2321	Communication Skills Lab	0	0	3	2
		0	0	4	2
TOTAL		18	1	10	25

SEMESTER VI

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

Code No.	Course Title	L	T	P	C
THEORY					
IT2351	Network Programming and Management				
CS2353	Object Oriented Analysis and Design	3	0	0	3
IT2352	Cryptography and Network Security	3	0	0	3
IT2353	Web Technology	3	0	0	3
IT2354	Embedded Systems	3	0	0	3
	Elective I	3	0	0	3
		3	0	0	3
PRACTICAL					
IT2357	Web Technology Lab				
CS2357	Object Oriented Analysis and Design Lab	0	0	3	2
CS2307	Network Lab	0	0	3	2
		0	0	3	2
TOTAL		18	0	9	24

ATTESTED
PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
 KARAIKUNNAM, CHEROOR - 600 097.

SEMESTER VII

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

Code No.	Course Title	L	T	P	C
THEORY					
IT2401	Service Oriented Architecture				
IT2402	Mobile Communication	3	0	0	3
CS2401	Computer Graphics	3	0	0	3
IT2403	Software Project Management	3	0	0	3
	Elective II	3	0	0	3
	Elective III	3	0	0	3
PRACTICAL					
IT2406	Service Oriented Architecture Lab				
CS2405	Computer Graphics Lab	0	0	3	2
		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 IV				
	Elective V	3	0	0	3
		3	0	0	3
PRACTICAL					
IT2451	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
MA2264	Numerical Methods				
MA2265	Discrete Mathematics	3	1	0	4
IT2021	Business Process Model	3	1	0	4
IT2022	Software Requirement Engineering	3	0	0	3
IT2023	Digital Image Processing	3	0	0	3
IT2024	User Interface Design	3	0	0	3
CS2022	Visual Programming	3	0	0	3
CS2032	Data Warehousing and Data Mining	3	0	0	3

ATTESTED



PRINCIPAL

KCG COLLEGE OF TECHNOLOGY

KASB-ANAPUR, CHENNAI-600 097.

SEMESTER VII – Elective II

Code No.	Course Title	L	T	P	C
CS2303	Theory of Computation	3	1	0	4
CS2029	Advanced Database Technology	3	0	0	3
IT2031	Electronic Commerce	3	0	0	3
IT2032	Software Testing	3	0	0	3
IT2033	Bioinformatics	3	0	0	3
IT2034	Adhoc Sensor Network	3	0	0	3

SEMESTER VII – Elective III

Code No.	Course Title	L	T	P	C
CS2351	Artificial Intelligence	3	0	0	3
IT2041	Enterprise Resource Planning	3	0	0	3
IT2042	Information Security	3	0	0	3
IT2043	Knowledge Management	3	0	0	3
CS2063	Grid computing	3	0	0	3
CS2041	C# and .NET Framework	3	0	0	3

SEMESTER VIII – Elective IV

Code No.	Course Title	L	T	P	C
IT2050	Principles of Compiler Design	3	0	0	3
IT2051	Knowledge Engineering	3	0	0	3
GE2025	Professional Ethics in Engineering	3	0	0	3
GE2071	Intellectual Property Rights	3	0	0	3
IT2052	Management Information System	3	0	0	3
IT2053	Software Design	3	0	0	3
CS2053	Soft Computing	3	0	0	3

SEMESTER VIII – Elective V

Code No.	Course Title	L	T	P	C
GE2022	Total Quality Management	3	0	0	3
GE2072	Indian Constitution and Society	3	0	0	3
IT2061	System Modeling and Simulation	3	0	0	3
CS2035	Natural Language Processing	3	0	0	3
CS2056	Distributed Systems	3	0	0	3
GE2023	Fundamental of Nano Science	3	0	0	3
IT2064	Speech Processing	3	0	0	3

ATTESTED

PRINCIPAL
 KCR COLLEGE OF TECHNOLOGY
 K. J. Somaiya Institute of Engineering & Information Technology

ANNA UNIVERSITY, CHENNAI

AFFILIATED INSTITUTIONS

R - 2008

B.E. MECHANICAL ENGINEERING
II TO VIII SEMESTERS CURRICULUM 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

ATTESTED



PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.

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

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1. B.E. Electrical and Electronics Engineering
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II Faculty of Information and Communication Engineering

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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

ATTESTED


PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
KARAPPAKULAM, CHENNAI - 600 097.

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	Transforms and Partial Differential Equation	3	1	0	4
ME 2201	Manufacturing Technology – I	3	0	0	3
ME 2202	Engineering Thermodynamics	3	1	0	4
ME 2203	Kinematics of Machinery	3	1	0	4
ME 2204	Fluid Mechanics and Machinery	3	1	0	4
ME 2205	Electrical Drives and Control	3	0	0	3
PRACTICAL					
ME 2207	Manufacturing Technology Lab – I	0	0	3	2
ME 2208	Fluid Mechanics and Machinery Laboratory	0	0	3	2
ME 2209	Electrical Engineering Laboratory	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 2266	Statistics and Numerical Methods	3	1	0	4
ME 2251	Heat and Mass Transfer	3	1	0	4
ME 2252	Manufacturing Technology – II	3	0	0	3
ME 2253	Engineering Materials and Metallurgy	3	0	0	3
ME 2254	Strength of Materials	3	1	0	4
ME 2255	Electronics and Microprocessors	3	0	0	3
PRACTICAL					
ME 2258	Manufacturing Technology Lab – II	0	0	3	2
ME 2256	Strength of Materials Lab	0	0	3	2
ME 2257	Computer Aided Machine Drawing Laboratory	0	0	4	2
TOTAL		18	3	10	27

SEMESTER V

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

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
GE 2021	Environmental Science and Engineering	3	0	0	3
ME 2301	Thermal Engineering	3	1	0	4
ME 2302	Dynamics of Machinery	3	1	0	4
ME 2303	Design of Machine Elements	3	1	0	4
ME 2304	Engineering Metrology & Measurements	3	0	0	3
ME 2305	Applied Hydraulics & Pneumatics	3	0	0	3
PRACTICALS					
ME 2306	Thermal Engineering Lab – I	0	0	3	2
ME 2307	Dynamics Lab	0	0	3	2
ME 2308	Metrology & Measurements Lab	0	0	3	2
ME 2309	CAD / CAM Lab	0	0	3	2
TOTAL		18	3	12	29

ATTESTED

G. P. S.
PRINCIPAL

K. J. SOMAIYA INSTITUTE OF TECHNOLOGY
P. O. BOX NO. 108, K. J. S. ROAD, K. J. S. ROAD, K. J. S. ROAD

SEMESTER VI

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
MG 2351	Principles of Management				
ME 2351	Gas Dynamics and Jet Propulsion	3	0	0	3
ME 2352	Design of Transmission Systems	3	1	0	4
ME 2354	Automobile Engineering	3	1	0	4
ME 2353	Finite Element Analysis	3	0	0	3
	Elective - I	3	1	0	4
		3	0	0	3
PRACTICALS					
ME 2355	Thermal Engineering Lab - II				
ME 2356	Design & Fabrication Project	0	0	3	2
GE 2321	Communication Skills Lab	0	0	4	2
		0	0	4	2
TOTAL		18	3	11	27

SEMESTER VII

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
GE 2022	Total Quality Management				
ME 2401	Mechatronics	3	0	0	3
ME 2402	Computer Integrated Manufacturing	3	0	0	3
ME 2403	Power Plant Engineering	3	0	0	3
	Elective - II	3	0	0	3
	Elective - III	3	0	0	3
		3	0	0	3
PRACTICALS					
ME 2404	Computer Aided Simulation & Analysis Laboratory				
ME 2405	Mechatronics Lab	0	0	3	2
		0	0	3	2
TOTAL		18	0	6	22

SEMESTER VIII

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
MG 2451	Engineering Economics and Cost Analysis				
	Elective - IV	3	0	0	3
	Elective - V	3	0	0	3
		3	0	0	3
PRACTICALS					
ME 2452	Comprehension				
ME 2453	Project Work	0	0	2	1
		0	0	12	6
TOTAL		9	0	14	16

ATTESTED


PRINCIPAL

MOS COLLEGE OF TECHNOLOGY
KSRAPAKHOLA, DISTRICT: KSRAPAKHOLA

SEMESTER VI**Elective I**

CODE NO.	COURSE TITLE	L	T	P	C
MG 2021	Marketing Management				
ME 2021	Quality Control & Reliability Engineering	3	0	0	3
ME 2022	Refrigeration & Air conditioning	3	0	0	3
ME 2023	Renewable Sources of Energy	3	0	0	3
ME 2024	Industrial Tribology	3	0	0	3
ME 2025	Vibration & Noise Control	3	0	0	3
ME 2026	Unconventional Machining Processes	3	0	0	3

SEMESTER VII**Elective II**

CODE NO.	COURSE TITLE	L	T	P	C
ME 2027	Process Planning & Cost Estimation				
ME 2029	Design of Jigs, Fixtures & Press Tools	3	0	0	3
ME 2030	Composite Materials	3	0	0	3

Elective III

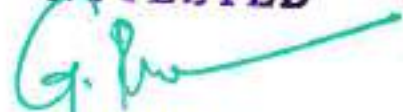
CODE NO.	COURSE TITLE	L	T	P	C
ME 2028	Robotics				
ME 2031	Thermal Turbo machines	3	0	0	3
ME 2032	Computational Fluid Dynamics	3	0	0	3
ME 2034	Nuclear Engineering	3	0	0	3

SEMESTER-VIII**Elective IV**

CODE NO.	COURSE TITLE	L	T	P	C
GE 2025	Professional Ethics In Engineering				
ME 2035	Entrepreneurship Development	3	0	0	3
ME 2036	Production Planning and Control	3	0	0	3
ME 2037	Maintenance Engineering	3	0	0	3
ME 2038	Operations Research	3	0	0	3

Elective V

CODE NO.	COURSE TITLE	L	T	P	C
GE2023	Fundamentals of Nanoscience				
ME 2040	Pressure Vessels & Piping Design	3	0	0	3
ME 2041	Advanced I.C. Engines	3	0	0	3
ME 2042	Design of Heat Exchangers	3	0	0	3

ATTESTED

PRINCIPAL

KJ Somaiya Institute of Technology

2017.

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS - 2009

CURRICULUM II TO IV SEMESTERS (FULL TIME)
M.E. COMMUNICATION SYSTEMS

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	CU9221	Wireless Mobile Communication	3	0	0	3
2	CU9222	Multimedia Compression Techniques	3	0	0	3
3	CU9223	Microwave Integrated Circuits	2	0	2	3
4	CU9224	Satellite Communication	3	0	0	3
5	E2	Elective II	3	0	0	3
6	E3	Elective III	3	0	0	3
PRACTICAL						
7	CU9228	Communication System Lab II	0	0	4	2
TOTAL			17	0	6	20

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	E4	Elective IV	3	0	0	3
2	E5	Elective V	3	0	0	3
3	E6	Elective VI	3	0	0	3
PRACTICAL						
4	CU9234	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	CU9241	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

Total No. of credits to be earned for the award of Degree: $21 + 20 + 15 + 12 = 68$

ATTESTED



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KCG COLLEGE FOR WOMEN, CHENNAI
11/11/2009

**LIST OF ELECTIVES
M.E. COMMUNICATION SYSTEMS**

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	AP9256	RF System Design				
2	CU9251	Communication protocol Engineering	3	0	0	3
3	VL9265	DSP Processor Architecture and programming	3	0	0	3
4	VL9264	Digital Speech Signal Processing	3	0	0	3
5	CU9256	Network Routing Algorithms	3	0	0	3
6	CU9253	Global Positioning Systems	3	0	0	3
7	CU9257	Communication Network Security	3	0	0	3
8	CP9254	Soft Computing	3	0	0	3
9	CU9254	Digital Communication Receivers	3	0	0	3
10	AP9213	Advanced Microprocessors and Microcontrollers	3	0	0	3
11	AP9251	Digital Image Processing	3	0	0	3
12	CU9255	Internetworking multimedia	3	0	0	3
13	AP9256	Electromagnetic Interference and Compatibility in System Design	3	0	0	3
14	CP9212	High Performance Computer Networks	3	0	0	3
15	AP9224	Embedded systems	3	0	0	3
16	CP9253	High Speed Switching Architectures	3	0	0	3
17	CU9258	Network Management	3	0	0	3
18	CU9259	Telecommunication System Modeling and Simulation	3	0	0	3
19		Special Elective	3	0	0	3
			3	0	0	3

ATTESTED


PRINCIPAL

KCG COLLEGE OF ENGINEERING AND TECHNOLOGY

ANNA UNIVERSITY : : CHENNAI 600 025

AFFILIATED INSTITUTIONS

Regulations - 2009

M.E.COMPUTER SCIENCE AND ENGINEERING

II TO IV SEMESTERS (FULL TIME) CURRICULUM AND SYLLABI

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	CS9221	Data Base Technology				
2	CS9222	Advanced Operating Systems	3	0	0	3
3	CS9223	Advanced System Software	3	0	0	3
4	CS9224	Information Security	3	0	0	3
5	CS9225	Web Technology	3	0	0	3
6	E1	Elective I	3	0	0	3
PRACTICAL						
7	CS9227	Operating System Lab				
8	CS9228	Web Technology Lab	0	0	3	2
			0	0	3	2
TOTAL			18	0	6	22

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	E2	Elective II				
2	E3	Elective III	3	0	0	3
3	E4	Elective IV	3	0	0	3
PRACTICAL						
4	CS9234	Project Work (Phase I)				
			0	0	12	6
TOTAL			9	0	12	15

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	CS9241	Project Work (Phase II)				
			0	0	24	12
TOTAL			0	0	24	12

TOTAL NO OF CREDITS TO BE EARNED FOR THE AWARD OF DEGREE: 20+22+15+12= 69

1

ATTESTED


PRINCIPAL
 KCG COLLEGE OF TECHNOLOGY
 KARAIKUDI

LIST OF ELECTIVES FOR M.E.COMPUTER SCIENCE AND ENGINEERING*

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	CS9251	Mobile Computing	3	0	0	3
2	CS9252	Grid Computing	3	0	0	3
3	CS9253	Theory of Computation	3	0	0	3
4	CS9254	Soft Computing	3	0	0	3
5	CP9264	Distributed Computing	3	0	0	3
6	CS9256	Multimedia Systems	3	0	0	3
7	CS9257	XML and Web Services	3	0	0	3
8	CS9258	Bio Informatics	3	0	0	3
9	CS9259	Network Security	3	0	0	3
10	CS9260	Embedded Systems	3	0	0	3
11	CS9261	Digital Imaging	3	0	0	3
12	CS9262	Software Quality Assurance	3	0	0	3
13	CS9263	Ad-hoc Networks	3	0	0	3
14	CS9264	Data Warehousing and Data Mining	3	0	0	3
15	CS9265	Performance Evaluation of Computer Systems and Networks	3	0	0	3
16	CS9266	Agent Based Intelligent Systems	3	0	0	3
17	CS9267	Visualization Techniques	3	0	0	3
18	CS9268	Advanced Databases	3	0	0	3
19	CS9269	Software Project Management	3	0	0	3
20	CS9270	Component Based Technology	3	0	0	3

ATTESTED



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KCG COLLEGE OF TECHNOLOGY
KANNUR

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS - 2009
M.E. ENGINEERING DESIGN

II TO IV SEMESTERS (FULL TIME) CURRICULUM AND SYLLABUS

SEMESTER II

COURSE CODE	COURSE TITLE	L	T	P	C
THEORY					
ED 9221	Finite Element Methods in Mechanical Design	3	1	0	4
ED 9222	Vibration Analysis and Control	3	0	2	4
ED 9223	Mechanisms Design and Simulation	3	0	2	4
ED 9224	Mechanical Behavior of Materials	3	0	0	3
E3	Elective III	3	0	0	3
E4	Elective IV	3	0	0	3
PRACTICAL					
ED 9225	Analysis and Simulation Lab	0	0	2	1
ED 9226	Seminar	0	0	2	1
TOTAL		18	1	8	23

SEMESTER III

COURSE CODE	COURSE TITLE	L	T	P	C
THEORY					
E5	Elective V	3	0	0	3
E6	Elective VI	3	0	0	3
E7	Elective VII	3	0	0	3
ED 9231	Project Work (Phase I)	0	0	12	6
Total		9	0	12	15

SEMESTER IV

COURSE CODE	COURSE TITLE	L	T	P	C
THEORY					
ED 9241	Project Work (Phase II)	0	0	24	12
Total		0	0	24	12

*A Term Project must be given for Assessment - 3 (Compulsory)

TOTAL NUMBER OF CREDIT: 21 + 23 + 15 + 12 = 71

ATTESTED


PRINCIPAL

KCG COLLEGE OF TECHNOLOGY
MAR 2014

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY :: CHENNAI 600 025
REGULATIONS - 2009
CURRICULUM II TO IV SEMESTERS (FULL TIME)
M.E. VLSI DESIGN
SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	AP9221	Analysis and Design of Analog Integrated Circuits	3	0	0	3
2	VL9221	CAD for VLSI Circuits	3	0	0	3
3	AP9222	Computer Architecture and Parallel Processing	3	0	0	3
4	AP9224	Embedded Systems	3	0	0	3
5	E2	Elective II	3	0	0	3
6	E3	Elective III	3	0	0	3
PRACTICAL						
7	VL9225	VLSI Design Lab II	0	0	4	2
TOTAL			18	0	4	20

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
SEMESTER III						
THEORY						
1	E4	Elective IV	3	0	0	3
2	E5	Elective V	3	0	0	3
3	E6	Elective VI	3	0	0	3
PRACTICAL						
4	VL9234	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
SEMESTER IV						
PRACTICAL						
1	VL9241	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL NO. OF CREDITS TO BE EARNED FOR THE AWARD OF DEGREE
 $21+20+15+12=68$

ATTESTED



PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.

**LIST OF ELECTIVES
M.E. VLSI DESIGN**

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	VL9251	Testing of VLSI Circuits				
2	VL9252	Low Power VLSI Design	3	0	0	3
3	VL9253	VLSI Signal Processing	3	0	0	3
4	VL9254	Analog VLSI Design	3	0	0	3
5	VL9255	Design of Semiconductor Memories	3	0	0	3
6	VL9256	VLSI Technology	3	0	0	3
7	VL9257	Physical Design of VLSI Circuits	3	0	0	3
8	VL9258	Genetic Algorithms and their Applications	3	0	0	3
9	AP9213	Advanced Microprocessors and Microcontrollers	3	0	0	3
10	AP9252	Neural Networks and Its Applications	3	0	0	3
11	VL9261	ASIC Design	3	0	0	3
12	NE9251	Reliability Engineering	3	0	0	3
13	AP9256	Electromagnetic Interference and Compatibility in System Design	3	0	0	3
14	VL9264	Digital Speech Signal Processing	3	0	0	3
15	VL9265	DSP Processor Architecture and programming	3	0	0	3
16	VL9266	Introduction to MEMS System Design	3	0	0	3
17		Special Elective	3	0	0	3

ATTESTED


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 KCG COLLEGE OF TECHNOLOGY
 KARAPAKKAM, CHENNAI - 600 097.

AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS - 2009

M.C.A. (MASTER OF COMPUTER APPLICATIONS)
II TO VI SEMESTERS (FULL TIME) CURRICULUM AND SYLLABUS

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA9221	Mathematical Foundations of Computer Science				
2	MC9222	Object Oriented Programming	3	1	0	4
3	MC9223	Design and Analysis of Algorithms	3	0	0	3
4	MC9224	System Software	3	1	0	4
5	MC9225	Operating Systems	3	0	0	3
PRACTICAL						
6	MC9226	Object Oriented Programming Lab				
7	MC9227	System Software Lab	0	0	3	2
8	MC9228	Algorithms Lab	0	0	3	2
TOTAL			15	2	9	23

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MC9231	Computer Networks				
2	MC9232	Microprocessors and Its Applications	3	0	0	3
3	MC9233	Software Engineering	3	0	0	3
4	MC9234	Computer Graphics	3	0	0	3
5	MC9235	Web Programming	3	0	0	3
PRACTICAL						
6	MC9236	Graphics Lab				
7	MC9237	Microprocessor Lab	0	0	3	2
8	MC9238	Web Programming Lab	0	0	3	2
TOTAL			15	0	9	21

ATTESTED


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KCG COLLEGE OF TECHNOLOGY
KARAIKUDI

SEMESTER IV

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MC9241	Network Programming				
2	MC9242	Resource Management Techniques	3	0	0	3
3	MC9243	Visual Programming	3	0	0	3
4	MC9244	Object Oriented Analysis and Design	3	0	0	3
5	E1	Elective - I	3	1	0	4
PRACTICAL						
6	MC9245	Visual Programming Lab				
7	MC9246	Network Programming Lab	0	0	3	2
8	MC9247	Case Tools Lab	0	0	3	2
			0	0	3	2
TOTAL			15	1	9	22

SEMESTER V

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MC9251	Middleware Technologies				
2	MC9252	Software Project Management	3	0	0	3
3	E2	Elective II	3	0	0	3
4	E3	Elective III	3	0	0	3
5	E4	Elective IV	3	0	0	3
PRACTICAL						
6	MC9253	Middleware Technology Lab	0	0	3	2
7	MC9254	Software Development Lab	0	0	3	2
			0	0	3	2
TOTAL			15	0	6	19

SEMESTER VI

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	MC9261	Project Work				
			0	0	24	12
TOTAL			0	0	24	12

Total No of Credits to be earned for the Award of Degree 23+21+22+19+12 = 97

ATTESTED

G. P. S.

**PRINCIPAL
KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI - 600 097.**

LIST OF ELECTIVES FOR M.C.A.
(MASTER OF COMPUTER APPLICATIONS)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
IV SEMESTER						
1	MA9227	Numerical and Statistical Methods				
2	MC9271	Electronic Commerce	3	1	0	4
3	MC9272	Information Systems	3	0	0	3
4	MC9273	Web Graphics	3	0	0	3
5	MC9274	Human Resource Management	3	0	0	3
V SEMESTER						
6	MC9276	Advanced Databases				
7	MC9277	Software Quality Management	3	0	0	3
8	MC9278	TCP/IP Design and Implementation	3	0	0	3
9	MC9279	Distributed Systems	3	0	0	3
10	MC9280	Data Mining and Data Warehousing	3	0	0	3
11	MC9281	Component Based Technology	3	0	0	3
12	MC9282	Managerial Economics	3	0	0	3
13	MC9283	Mobile Computing	3	0	0	3
14	MC9284	Digital Imaging	3	0	0	3
15	MC9285	Enterprise Resource Planning	3	0	0	3
16	MC9286	Agent Based Intelligent Systems	3	0	0	3
17	MC9287	Natural Language Processing	3	0	0	3
18	MC9288	Software Agents	3	0	0	3
19	MC9289	Supply Chain Management	3	0	0	3
20	MC9290	Healthcare Systems	3	0	0	3
21	MC9291	Portfolio Management	3	0	0	3
22	MC9292	Unix Internals	3	0	0	3
23	MC9293	Compiler Design	3	0	0	3
24	MC9294	Artificial Intelligence	3	0	0	3
25	MC9295	Parallel and Distributed Computing	3	0	0	3
26	MC9296	Soft Computing	3	0	0	3

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