Government College of Engineering, Salem- 11

(An Autonomous Institution affiliated to Anna University, Chennai)



SELF-STUDY REPORT



CRITERION 1

1.1.1 Curriculum developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.

(Submitted to National Assessment and Accreditation Council)

Self Declaration

This is to certify that the supporting documents for this metric exceed the 5MB upload limit. Therefore, links to sample documents and some samples are provided in the following pages. Any/all Supporting documents will be provided, if required. All links, documents and images are verified and authenticated.

Im 5/2/24

IQAC – Chairperson

Internal Quality Assurance Cell Govt. College of Engineering Salem - 636 011. 1.1.1 Curriculum developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.

Supporting Document

1.1.1 / Link 1

	5 th Academic Council (R 2022)
E	xtracts from 5 th Academic Council – Minutes
ITEM NO.	5: TO CONSIDER AND APPROVE 2022 REGULATIONS FOR UG (FULL TIME) & PART TIME) AND PG (FULL TIME) PROGRAMMES.
	Dr.R.Malayalamurthi, Principal & Chairman of the Academic Council recommended and Dr.K.Sudha, Controller of Examinations moved the 2022 regulations for UG (Full Time and Part Time) and PG (Full Time) Programmes.
	UG PROGRAMMES :
	B.E Civil Engineering (FT & PT)
	B.E Computer Science and Engineering (FT)
	B.E Electronics and Communication Engineering (FT & PT)
	B.E Electrical and Electronics Engineering (FT & PT)
	B.E Mechanical Engineering (FT & PT)
	B.E Metallurgical Engineering (FT)
	PG PROGRAMMES :
	M.E. Structural Engineering
	M.E Communication Systems
	M.E. Power Electronics and Drives
	M.E. Computer Aided Design
	M.E Thermal Engineering
	M.E Welding Technology
	The Academic Council resolved to approve 2022 regulations for UG (Full Time and Part Time) and PG (Full Time) Programmes. as given in Annexure V.
	pumper on
	Page 5 of 20

2022 Regulations-(UG)

GOVERNMENT COLLEGE OF ENGINEERING: SALEM 636011 (An Autonomous Institution Affiliated to Anna University, Chennai) (NAAC ACCREDITED) **REGULATIONS 2022**

CHOICE BASED CREDIT SYSTEM Common to all B.E. (FULL TIME) DEGREE PROGRAMME (For the students admitted to B.E Programme during the Academic year 2022-2023 and onwards)

DEFINITIONS AND NOMENCLATURE 1.

- In this regulation, unless the contest otherwise specifies (i)
 - "Programme" means Degree Programme (i.e) B.E. Degree Programme.
- "Course" means a Theory or Practical subject that is normally studied in a semester, like (ii)
- Mathematics, Physics, Engineering Graphics, etc.,

2. ELIGIBILITY FOR ADMISSION

For admission to the Bachelor Degree Programme candidates will be required to satisfy the conditions of admission thereto prescribed by the Government of Tamilnadu and Anna University, Chennai.

Provision is made for lateral entry candidates with Diploma in Engineering / Technology in the third semester of the programme of one of the branches of study and they will be required to satisfy the conditions of admissions thereto prescribed by the Government of Tamilnadu and Anna University, Chennai.

3. BRANCHES OF STUDY

4.1

Branches will be offered at the time of admission to the programme. The following are the branches offered in this college.

- **B.E. Civil Engineering**
- **B.E.** Computer Science and Engineering
- B.E. Electronics and Communication Engineering-
- B.E. Electrical and Electronics Engineering
- **B.E. Mechanical Engineering**
- B.E. Metallurgical Engineering

DURATION AND STRUCTURE OF THE PROGARMME

The Minimum and Maximum period of the U.G. Full time programme are given below: The total duration for completion of the programme shall not exceed the maximum duration irrespective of the period of break of study (vide clause 25) or prevention (vide clause 11.6) in order that the student may be eligible for the award of the degree (vide clause 23)

2022 Regulations-(PG)

GOVERNMENT COLLEGE OF ENGINEERING: SALEM 636011 (An Autonomous Institution Affiliated to Anna University, Chennai) (NAAC ACCREDITED) REGULATIONS 2022

CHOICE BASED CREDIT SYSTEM Common to all M.E. (FULL TIME & PART TIME) DEGREE PROGRAMME (For the students admitted to M.E Programme during the Academic year 2022-2023 and onwards)

1. DEFINITIONS AND NOMENCLATURE

(i)

- In this regulation, unless the contest otherwise specifies
- "Programme" means Degree Programme (i.e) M.E. Degree Programme.
- "Course" means a Theory or Practical subject that is normally studied in a semester, like Applied Mathematics, Advanced Thermodynamics, etc.,
- (iii) "Head of the Institution" means the Principal of College who is responsible for all academic activities of the College and for implementation of relevant Rules and Regulations.
- (iv) "Head of the Department (HOD)" means the Head of the Department concerned.
- (v) "Controller of Examinations (COE)" means the Authority of the University who is responsible for all activities of the University Examinations.

2. ELIGIBILITY FOR ADMISSION

For admission to the Master's Degree Programme candidates will be required to satisfy the conditions of admission thereto prescribed by the Government of Tamilnadu and Anna University, Chennai.

3. BRANCHES OF STUDY

Branches will be offered at the time of admission to the programme. The following are the branches offered in this college.

M.E. Structural Engineering

M.E. Power Electronics and Drives

M.E. Computer Aided Design

- M.E. Thermal Engineering
- M.E. Welding Technology
- M.E. Communication System

4. MODES OF STUDY

4.1 Full Time: Candidates admitted under 'Full Time' should be available in the college/ Institution during all complete working hours for curricular, co-curricular and extra-curricular activities assigned to them.

2022-Curriculum (UG)

		SEMESTER I								
S.	Course	Course Title	Cat.	H	lour	s/V	Veek	Max. Mark		
No.	Code			L	Т	P	С	CA	FE	Tota
1	22MC101	Induction Program	MC	-	-	-	0	-	-	-
		THEORY								
2	22EN101	Communicative English (Theory cum Practical)	HS	2	0	2	3	40	60	100
3	22MA101	Matrices, Calculus and Ordinary Differential Equations	BS	3	1	0	4	40	60	100
4	22PH101	Engineering Physics	BS	3	1	0	4	40	60	100
5	22CS101	Problem Solving and C Programming	ES	3	0	0	3	40	60	100
6	22CE201	Engineering Mechanics	ES	3	0	0	3	40	60	100
7	22MC102	Heritage of Tamil / தமிழர்மரபு	HS MC	1	0	0	1	100	-	100
		PRACTICAL								
8	22CS102	Computer Practice and C Programming Laboratory	ES	0	0	3	1.5	60	40	100
9	22ME102	Workshop Manufacturing Practices	ES	0	0	4	2.0	60	40	100
		TOTAL					21.5			900
		SEMESTER II								
s.	Course	Course Tide	Cat.	Hours / Week				Max. Marks		
No.	Code	Code Course Title		L	Т	Р	С	CA	FE	Tota
	_	THEORY	_							
1	22MA201	Partial Differential Equation, Vector Calculus and Complex Variables	BS	3	1	0	4	50	50	100
2	22CY101	Engineering Chemistry	BS	3	1	0	4	40	60	100
3	22EE203	Basic Electrical Engineering for Metallurgy	ES	3	1	0	4	40	60	100
4	22ME101	Engineering Graphics & Design	ES	1	0	4	3	40	60	100
5	22HS201	Universal Human Values	HS	2	1	0	3	40	60	100
6	22MCIN01	Engineering Sprints	EE	0	0	2	1	100		100
7	22MC201	Tamils and Technology / தமிழரும் தொழில்றட்பமும்	HS MC	1	0	0	1	100	-	100
8	22NC201	NCC COURSE - I (only for NCC Students)*	NC	3	0	0	3	40	60	100
		PRACTICAL								
9	22EN102	Professional Skills Laboratory	HS	0	0	3	1	60	40	100
10	22PH103	Physics Laboratory	BS	0	0	3	1.5	60	40	100
11	22CY102	Chemistry Laboratory	BS	0	0	3	1.5	60	40	100
12	22EE204	Basic Electrical Engineering Laboratory for Metallurgy	ES	0	0	3	1	60	40	100
		TOTAL					24.5			900

GOVERNMENT COLLEGE OF ENGINEERING, SALEM - 636 011.

2022-Curriculum (PG)

GOVERNMENT COLLEGE OF ENGINEERING SALEM - 636011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Regulations 2022 – Autonomous Courses (For Students Admitted from 2022-2023)

M.E. COMMUNICATION SYSTEMS

SEMESTER I

		SEM	MESTER	Ι						
				Hour	s/week		1	Ma	ximum	Marks
SLNo.	Course code	Name of the Course	Category	Lecture	Tutorial/ Demo*	Practical	Credits	CA	ΕE	Total
		I	THEOR	Y						
1.	22COC11	Antennas and Radiating Systems	Core	3	0	0	3	40	60	100
2.	22COC12	Advanced Digital Communication Techniques	Core	3	0	0	3	40	60	100
3.	22COE1X		Elect 1	3	0	0	3	40	60	100
4.	22COE2X	Elective – II	Elect 2	3	0	0	3	40	60	100
5.	22MLC01	Research Methodology and IPR	MLC	3	0	0	3	40	60	100
		P	RACTIC	AL						
6.	22COC13	Antennas and Radiating Systems lab	Core	0	0	4	2	60	40	100
7.	22COC14	Advanced Digital Communication Systems Lab	Core	0	0	4	2	60	40	100
	Mandatory	Course (Non-Credit)								
8.	22AC1x	Audit Course 1	Audit	0	0	0	0	100	0	100
		TOTAL		15	0	8	19	420	380	800
		SI	EMESTE							
		I	THEOR							
				Hour	s/week			Ma	<u>ximum</u>	Marks
SL No.	Course code	Name of the Course	Category	Lecture	Tutorial/ Demo*	Practical	Credits	CA	ΕE	Total
1.	22COC21	RF and Microwave Circuit Design	Core	3	0	0	3	40	60	100
2.	22COC22	Advanced Digital Signal Processing	Core	3	0	0	3	40	60	100
3.	22COE3X	Elective – III	Elect 3	3	0	0	3	40	60	100
4.	22COE4X	Elective – IV	Elect 4	3	0	0	3	40	60	100

2

	4 th Academic Council (2018R)
i	Excerpts from 4 th Academic Council – Minutes
ITEM NO. 1	: TO CONSIDER AND APPROVE 2018 REGULATIONS, RULES OF EXAMINATIONS AND QUESTION PAPER PATTERN FOR UG (FULLTIME & PART TIME) AND PG (FULL TIME & PART TIME) PROGRAMMES.
ITEM NO 1.	 Dr. G.Vimala Rosaline, Principal & Chairman of the Academic Council recommended and Dr. S.Prakash, Controller of Examinations moved the 2018 Regulation for U.G (Full Time) and P.G. (Full Time & Part Time) programmes.
	UG PROGRAMMES: B.E. Civil Engineering (FT) B.E. Computer Science and Engineering (FT) B.E. Electronics and Communication Engineering (FT) B.E. Electrical and Electronics Engineering (FT) B.E. Mechanical Engineering (FT) B.E. Metallurgical Engineering (FT)
	PG PROGRAMMES: M.E. Structural Engineering (FT & PT) M.E. Power Electronics and Drives (FT & PT) M.E. Computer Aided Design (FT & PT) M.E. Thermal Engineering (FT & PT) M.E. Welding Technology (FT & PT)
	The Academic Council resolved to approve the 2018 regulations for U.G (Full Time) and PG (Full Time & Part Time) Programmes as given in ANNEXURE I.
tem no 1.2	: Dr. G.Vimala Rosaline, Principal & Chairman of the Academic Council recommended and Dr. S.Prakash, Controller of Examinations moved the Rules of Examinations for UG (Full Time) and PG (Full Time & Part Time) Programmes for 2018 regulations.
	The Academic Council resolved to approve the rules of examinations for U.G (F Time) and PG (Full Time & Part Time) Programmes under 2018 regulations as given in ANNEXURE II.
	Page 3 of

Sample/Reference for Syllabus Revision: 2018-Regulations (UG) **GOVERNMENT COLLEGE OF ENGINEERING: SALEM 636011** (An Autonomous Institution Affiliated to Anna University, Chennai) (NAAC ACCREDITED) **REGULATIONS 2018** CHOICE BASED CREDIT SYSTEM Common to all B.E. (FULL TIME) DEGREE PROGRAMME (For the students admitted to B.E Programme during the Academic year 2018-2019 and onwards) 1. DEFINITIONS AND NOMENCLATURE In this regulation, unless the contest otherwise specifies (i) "Programme" means Degree Programme (i.e) B.E. Degree Programme. (ii) "Course" means a Theory or Practical subject that is normally studied in a semester, like Mathematics, Physics, Engineering Graphics, etc., 2. ELIGIBILITY FOR ADMISSION For admission to the Bachelor Degree Programme candidates will be required to satisfy the conditions of admission thereto prescribed by the Government of Tamilnadu and Anna University, Chennai. Provision is made for lateral entry candidates with Diploma in Engineering / Technology in the third semester of the programme of one of the branches of study and they will be required to satisfy the conditions of admissions thereto prescribed by the Government of Tamilnadu and Anna University, Chennai. 3. BRANCHES OF STUDY Branches will be offered at the time of admission to the programme. The following are the branches offered in this college. **B.E.** Civil Engineering B.E. Computer Science and Engineering B.E. Electronics and Communication Engineering B.E. Electrical and Electronics Engineering B.E. Mechanical Engineering **B.E.** Metallurgical Engineering 4. DURATION AND STRUCTURE OF THE PROGARMME 4.1 The Minimum and Maximum period of the U.G. Full time programme are given below: The total duration for completion of the programme shall not exceed the maximum duration irrespective of the period of break of study (vide clause 25) or prevention (vide clause 11.6) in order that the student may be eligible for the award of the degree (vide clause 23)

2022- Regulation (PG)

GOVERNMENT COLLEGE OF ENGINEERING: SALEM 636011

(An Autonomous Institution Affiliated to Anna University, Chennai) (NAAC ACCREDITED) REGULATIONS 2018

CHOICE BASED CREDIT SYSTEM Common to all M.E. (FULL TIME & PART TIME) DEGREE PROGRAMME (For the students admitted to M.E <u>Programme</u> during the Academic year 2018-2019 and onwards

1. DEFINITIONS AND NOMENCLATURE

In this regulation, unless the contest otherwise specifies

(i) "Programme" means Degree Programme (i.e) M.E. Degree Programme.

(ii) "Course" means a Theory or Practical subject that is normally studied in a semester, like Mathematics, Physics, Engineering Graphics, etc.,

2. ELIGIBILITY FOR ADMISSION

For admission to the Master's Degree Programme candidates will be required to satisfy the conditions of admission thereto prescribed by the Government of Tamilnadu and Anna University, Chennai.

3. BRANCHES OF STUDY

Branches will be offered at the time of admission to the <u>programme</u>. The following are the branches offered in this college.

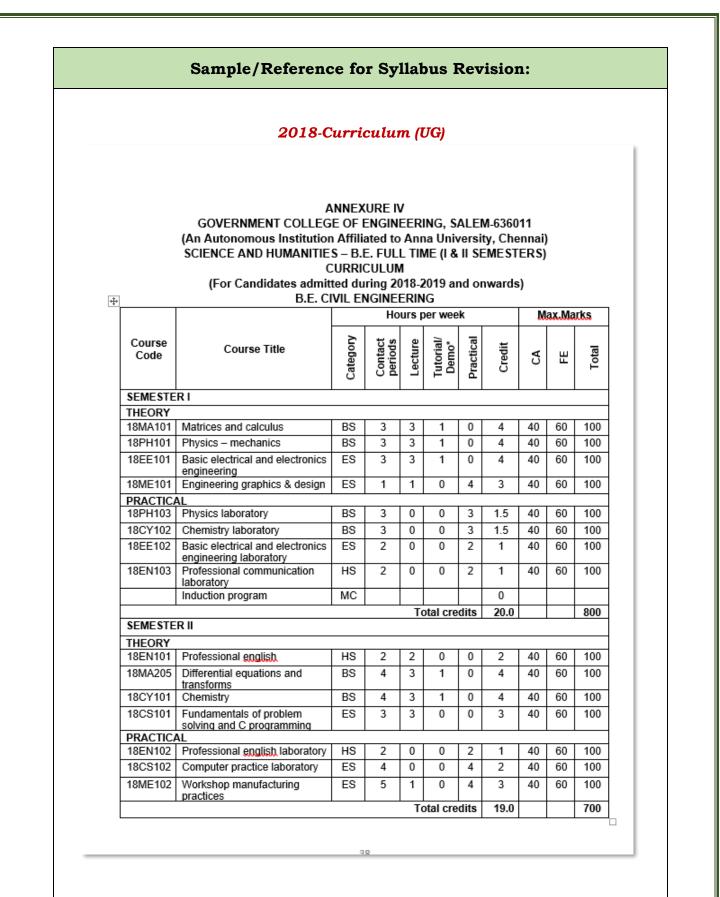
M.E. Structural Engineering

M.E. Power Electronics and Drives

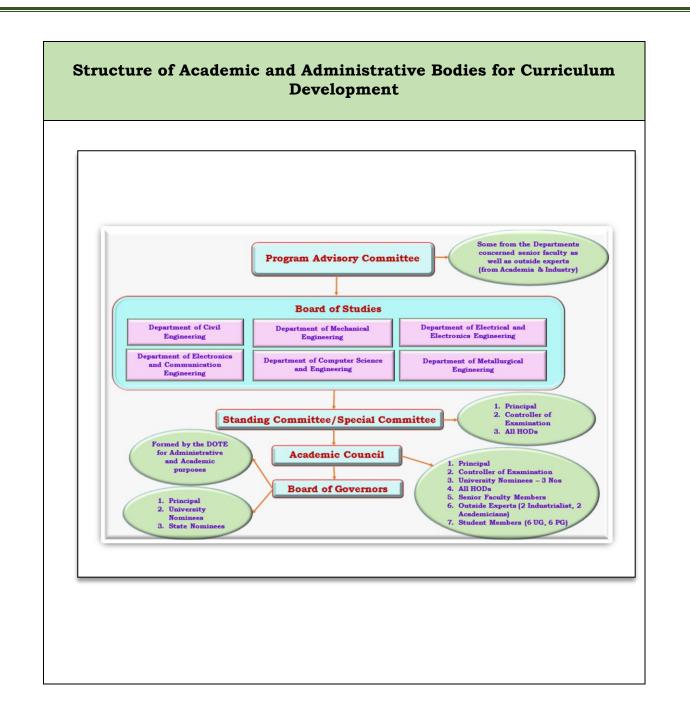
M.E. Computer Aided Design

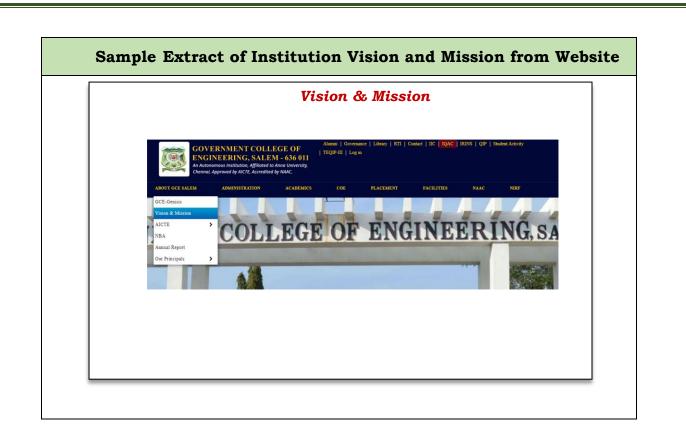
M.E. Thermal Engineering

M.E. Welding Technology

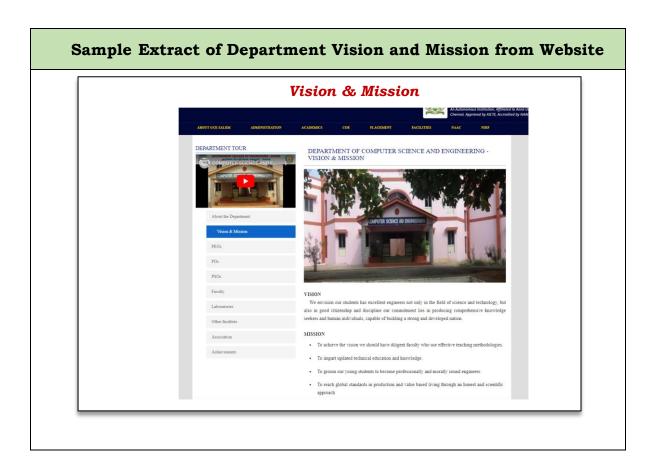


		lum (PG)						
	DEPARTMENT OF ELECTRICAL A GOVERNMENT COLLEGE OF ENG (An Autonomous Institution A	INEERING	G, SA	LEN	1 - 636	011.				
	Curriculum 2018 - Au					,,				
	(For Students Admit									
	M.E. Communication	Systems -	- Full	Tin	ne					
			н	ours	Weel	¢		Maxin	num N	larks
Course code	Name of the Course	Category	Contact	Lecture	Tutorial/ Demo*	Practical	Credit	cA	FE	Total
	SEMES	TERI								
18COC11	Statistical Information Processing	Core Core	3	3	0	0	3	40 40	60 60	100
18COC12	Advanced Digital Communication Techniques			3	Ľ	Ŭ	_	40		100
18COE1X	Elective I	Elect 1	3	3	0	0	3	40	60	100
	Elective – II Statistical Information Processing Lab	Elect 2	3	3	0	0	3	40	60 60	100
	Advanced Digital Communication System	Core	4	0	0	4	2	40	60	100
	Lab Research Methodology and IPR	MLC	3	3	0	0	3	40	60	100
18MLC01 18AC1X	Audit course 1	Audit	2	0	0	0	0	100	0	100
	TOTAL						19			800
	SEMES	STER II								
18COC21	Antennas and Radiating Systems	Core	3	3	0	0	3	40	60	100
18COC22	Advanced Digital Signal Processing	Core	3	3	0	0	3	40	60	100
18COE3X	Elective-III	Elect 3	3	3	0	0	3	40	60	100
18COE4X	Elective-IV	Elect 4	3	3	0	0	3	40	60	100
18COC23	Antennas and Radiating Systems lab	Core	4	0	0	4	2	40	60	100
	Advanced Digital Signal Processing Lab	Core	4	0	0	4	2	40	60	100
18CO205	Mini Project		4	0	0	4	2	40	60	100
18AC2X	Audit course 2	Audit	2	0	0	0	-	100	0	100
	TOTAL	STER III				1	18	L		800
18COE5X	The state of the s	Elect 5	3	3	0	0	3	40	60	100
18COE6X		Elect 6	3	3	_	0	3		60 120	100
18CO301	Dissertation Phase – I TOTAL	+	20	+		+	16	_		400
		STER IV	1	1		1				
18CO401	and a second	Τ	32	0	0 0	32	-	1	240	
	TOTAL otal Credits for the programme = 19 +18+	46,46,60			1	1	16	I	1	400





Academ	ics :Departme	ent:Engineeri	ng
NT COLL	TEQUPUII Log m Inhersity COE CADEMICS COE PLACEX PLACEX ourses Offered Interesting epartments > Engineering esearch >	ENT FACILITIES NAAC	NRF
	ree Structure		



PO's								
ABOUT GCE SALEM	ADMINISTRATION	ACADEMICS	COE	PLACEMENT	FACILITIES	Chennoi, Approved by AiCTE, NAAC NIRF		
DEPARTMEN	T OF ELECTRON	ICS AND COM	IMUNICAT	ION ENGINEE	RING - PO			
UG-PROGRAM OI	UTCOMES(PO'S)							
• PO 1:An abili	ty to apply knowledge of !	Mathematics, Science	e, and Engineer	ng in the Electronic a	nd Communication	Engineering.		
• PO 2:An abili	ty to design and conduct e	xperiments, as well a	as to analyze an	d interpret data.				
	ity to design a System, or ad Safety, Manufacturabilit			in realistic constraint	s such as Economic	e, Environmental, Social, Ethio		
• PO 4:An abili	ty to identify, formulate an	nd solve complex pro	blems in the are	a of Electronics and (Communication Eng	ineering.		
• PO 5:An abili	ty to use the techniques, sl	kills, and modern Eng	gineering tools	necessary for Enginee	ring practice.			
• PO 6:Knowle	dge of contemporary issue	es relevant to professi	onal Engineerir	ig practice.				
PO 7:The brok	ad education necessary to	understand the impac	ct of Engineerin	g solutions in Global,	Economic, Environ	mental and Social context.		
PO 8:An unde	erstanding of Professional	and Ethical responsit	bility.					
PO 9:An abili	ty to function on multidisc	ciplinary teams.						
	lity to communicate effect							
1999, 1999, 1999, 1999, 1999, 1999, 1 99	nition of the need for, and a							
PO 12:An abi PG-PROGRAM OU	lity to work as a leader in :	a team, to manage pr	ojects in Multid	isciplinary Environm	ents.			
TO TROOMEN OF								
	ty to independently carry o			opment work to solve	practical problems.			
PO2: An abili	ity to write and present a su	ubstantial technical re	eport.					
PO3: Student	s should be able to demo	instrate a degree of	mastery over c	ommunication system	s. The mastery sho	uld be at a level higher than		