

**ANNEXURES
(A – L)**

Table 1: Knowledge Profile

S.No.	Attribute
K1	A systematic, theory-based understanding of the natural sciences applicable to the discipline.
K2	Conceptually-based mathematics, numerical analysis, statistics and formal aspects of computer and information science to support analysis and modelling applicable to the discipline.
K3	A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.
K4	Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.
K5	Knowledge that supports engineering design in a practice area.
K6	Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.
K7	Comprehension of the role of engineering in society and identified issues in engineering practice in the discipline: ethics and the professional responsibility of an engineer to public safety; the impacts of engineering activity: economic, social, cultural, environmental and sustainability.
K8	Engagement with selected knowledge in the research literature of the discipline.

Table 2: Range of Complex Problem Solving

	Attribute	Complex Problems
1	Preamble	Engineering problems which cannot be resolved without in-depth engineering knowledge, and have some or all of the characteristics listed below:
2	Range of conflicting requirements	Involve wide-ranging or conflicting technical, engineering and other issues.
3	Depth of analysis required	Have no obvious solution and require abstract thinking, originality in analysis to formulate suitable models.
4	Depth of knowledge required	Requires research-based knowledge much of which is at, or informed by, the forefront of the professional discipline and which allows a fundamentals-based, first principles analytical approach.
5	Familiarity of issues	Involve infrequently encountered issues
6	Extent of applicable codes	Are outside problems encompassed by standards and codes of practice for professional engineering.
7	Extent of stakeholder involvement and level of conflicting requirements	Involve diverse groups of stakeholders with widely varying needs.
8	Consequences	Have significant consequences in a range of contexts.
9	Interdependence	Are high level problems including many component parts or sub-problems.

Table 3: Range of Complex Engineering Activities

	Attribute	Complex Activities
1	Preamble	Complex activities means (engineering) activities or projects that have some or all of the following characteristics listed below:
2	Range of resources	Involve the use of diverse resources (and for this purpose, resources include people, money, equipment, materials, information and technologies).
3	Level of interaction	Require resolution of significant problems arising from interactions between wide-ranging or conflicting technical, engineering or other issues.
4	Innovation	Involve creative use of engineering principles and research-based knowledge in novel ways.
5	Consequences to society and the environment	Have significant consequences in a range of contexts, characterized by difficulty of prediction and mitigation.
6	Familiarity	Can extend beyond previous experiences by applying principles-based approaches.

Annex B

Mapping of PEOs to PLOs / Graduate Attributes (Sec 3.2.2)

	PEOs						
	PEO_1	PEO_2	PEO_3	PEO_4	PEO_5
PEC Graduate Attributes (as defined in Sec 3.2.2)							
Engineering Knowledge							
Problem Analysis							
Design/Development of Solutions							
Investigation							
Modern Tool Usage							
The Engineer and Society							
Environment and Sustainability							
Ethics							
Individual and Team Work							
Communication							
Project Management							
Lifelong Learning							

System of Instructions and Examination

Nature of Academic Sessions:

Semester / Term / Annual

No. of sessions in the Program (4/8/8/12)

Duration of a session (in weeks)

Total: _____ Teaching: _____

Total No. of courses in the Program:

No. of courses in a session:

Min. _____ Max. _____

Total contact-hours for a Theory course per session:

Total contact-hours for a Practical course per session:

Weekly contact-hours for a Theory class:

Weekly contact-hours for a Practical class:

Attach Academic Calendars (for Current & the Previous years):

Attach Grade-Sheets for LAST ONE-year (All Batches) as per the following format:

Grade-Sheet

Intake Batch: _____

Session (Term/Semester/Year): _____

Course Code	Course Name	No. of Students Securing Grades (or %age Ranges, i.e. <40, 40-50, 50-60, 60-70, 70-80, 80-90, >90)									
		Total	A+	A	B+	B	C+	C	D+	D	F
EE1021	Circuit Analysis I	45	2	4	6	12	12	6	4	2	2

Annex D

Mapping of Courses to PLOs

Semester No.	Course Code	Course Title	Level of Emphasis of PLO (1: High; 2= Medium; 3=Low)											
			1	2	3	4	5	6	7	8	9	10	..	
1	MT10001	Calculus												
	HU1021	English Grammar				1								
		Subject 3					2							
		Subject 4												
		Subject 5												
		Subject 6		3										
2	CE1052	OOPS												
		Subject 2												
		Subject 3												
		Subject 4		3										
		Subject 5												
:														
			1											
:														
							2							
:														
					2		2		2					
8		Subject 1												
		Subject 2												
		Subject 3					2		2					
		Subject 4	2											
		Subject 5							2			2		
		Subject 6								1			2	

National Qualifications Framework – Curriculum Design

Domain	Knowledge Area	PEC/HEC Recommended		Institute's Program Breakup	
		Total Credits	Overall %	Total Credits	Overall %
Non-Engineering	Humanities	As per discipline specific NCRC guidelines	25% – 35 %		
	Management Sciences				
	Natural Sciences				
Engineering	Computing	As per discipline specific NCRC guidelines	65% – 75%		
	Engineering Foundation				
	Major Based Core (Breadth)				
	Major Based Core (Depth)				
	Inter-Disciplinary Engineering Breadth (Electives)				
	Senior Design Project	6			
	Industrial Training (Summer)	0			
Total		130 – 138	100%	0	0

Annex F

Course Offerings

NOTE: Attach the listing of Course-Contents for ALL courses

Semester No.	Sr. No.	Course Code	Course Title	Credit Hours	Knowledge Area	Pre-requisite Courses (if any)
1	1	CE3204	HDL Based Design	(3-1-4)	Major Based Core (Breadth)	1- Digital Logic Design (CE1102) 2- Microprocessor Architecture (CE2213)
	2	MT3101	Numerical Techniques	(3-0-3)	Natural Sciences	1- Linear Algebra (MT3023)
	3					
	4	HU1001	Communication Skills	(3-0-3)	Humanities	
	5					
				Total Cr. Hrs.	14-3-17	
2	1	CE3205		(3-1-4)	Major Based Core (Depth)	
	2	MT3101	Numerical Techniques	(3-0-3)	Management	
	3					
	4					
	5	CS1005	Object-Oriented Programming	(3-1-4)	Computing	
				Total Cr. Hrs.	14-3-17	
3						
			Total Cr. Hrs.	14-3-17		
:	:	:	:	:	:	
:	:	:	:	:	:	
:	:	:	:	:	:	
8						
			Total Cr. Hrs.	14-3-17		

List of Electives

Area of Specialization	Sr. No.	Course Code	Course Title	Credit Hours	Knowledge Area	Pre-requisite Courses (if any)
Semiconductors	1					
	2					
	3					
	4					
Power Systems	1					
	2					
	3					
	4					
	5					
Digital Design	1					
	2					
	3					

Annex G

Laboratories & Lab Work

Number of Total Engineering+Computing Courses: _____

Number of Lab Courses: _____

Number of Laboratories: _____

Attach Lab Commitment Charts for each Lab (for current & the previous semester/term):

Attach List of Experiments and name of Instructor(s) for each Lab course (for current & the previous semester/term):

Sr. No.	Name of Laboratory (Staff Names--Qualifications)	Lab(s) of Course(s) Conducted in the Lab.	Type(s) of Workstations (No. of each type)	Nature of Experiments	No. of Students per Workstation
1	Communication Systems Lab 1:Mr. Lab Engr. -- BE (Elect) 2:Mr. Lab. Asst -- DAE (PWR) 3:Mr. Lab Attend. -- FA	1- Communication Theory 2- Wave Propagation & Antennas 3- Microwave Engineering	1-Analog Communication Trainers (6)	Demonstration	4 to 5
			2-Digital Communication Trainers (8)	Demonstration	3 to 4
			3- Antenna Trainers (6)	Demonstration	4 to 5
			4- Microwave Trainers (4)	Demonstration	6 to 7
2	Electronics Circuits Lab 1:Mr. Lab Engr. -- BE (Elect) 2:Mr. Lab. Asst -- DAE (PWR) 3:Mr. Lab Attend. -- FA	1- Circuit Analysis I	Workbenches, each with Power-supply, Signal Generator, Oscilloscope, Multimeter, Breadboard, Components (14)	Hands-on	2
		2- Circuit Analysis II			
		3- Electronic Devices & Circuits			
		4- Integrated Electronics			

Annex H

Student Admissions & Enrollments

Sr. No.	Intake Batch	Total Applicants	Total Admissions offered*	Total Students Admitted	Present Strength	No. of Section(s)
1	Fall 2010	300	200	95	4	2
2	Fall 2011	500	380	152	30	4
3	Fall 2012	120	95	53	32	1
4	Fall 2013	550	420	181	125	4
	Total			1005*	682	

Note * = Total admission offered in all the Merit lists.

Annex I

Faculty Strength

List of **Full-Time Departmental Teaching Faculty**, sorted by Designation

Sr. No.	Name	PEC #	Designation	Joining Date	Details of Qualifications			Specialization	Experience Teaching (Total) Years	Dedicated / Shared	Cr. Hrs. taught in the Current & Last Semesters	
					Degree	Year	Institution				MS	BS
1			Professor & Head of Department		Ph.D.				10 (15)	Dedicated	6+3	3+0
					MS							
					BS							
2			Professor		Ph.D.				08 (10)	Dedicated	6+6	9+0
					MS							
					BS							
3			Associate Professor		Ph.D.				06 (10)	Dedicated	3+3	12+0
					MS							
					BS							
4			Assistant Professor		Ph.D.				02 (03)	Shared	3+9	0+12 (06)**
					MS							
					BS							
5			Assistant Professor		Ph.D.				0.5 (01)	Dedicated	0+0	0+6
					M.S							
					B.Sc.							
6			Lecturer		M.Sc				03 (03)	Shared	0+0	6+9 (09)**
					B.Sc.							
7			Lecturer		M.Sc					Dedicated	0+0	12+0
					B.Sc.							

** Taught to other Departments/Degrees

List of Shared/Visiting Faculty from other Departments/Organizations, sorted by Designation.

Sr. No.	Name	PEC #	Designation	Details of Qualifications			Specialization	Department / Organization	Cr. Hrs. taught in the Current & Last Semesters	
				Degree	Year	Institution			MS	BS
1			Professor	Ph.D.				Dept. of Mech. Engg	3+0	3+3
				MS						
				BS						
2			Assistant Professor	Ph.D.				Dept. of Natural Sciences	0+3	3+6
				M.S						
				B.Sc.						
3			Lecturer	M.Sc				Dept. of Islamic Studies	0+0	3+3
				B.Sc.						
4			Senior Engineer	M.Sc				PTCL	0+0	0+6
				B.Sc.						

List of Full-Time Lab. Engineers

Sr. No.	Name	PEC #	Designation	Details of Qualifications			Specialization	Joining Date	Labs Conducted (Contact Hours)	
				Degree	Year	Institution			Current Semester	Last Semester
1			Lab. Engr.	BE				9	12	
2			Lab. Engr.	BE						
3			Lab. Engr.	BE						
4			Lab. Engr.	BCS						

Annex J

Faculty Summary

Present Scenario

Number of New Faculty members inducted in the program since last PEC Visit

	Faculty teaching Engineering Subjects				Faculty teaching Non-Engineering Subjects			
	BSc	MSc	PhD	TOTAL	BSc	MSc	PhD	TOTAL
Program Faculty (Dedicated)								
Program Faculty (shared with other programs)								
Shared Faculty (from other programs)								
Visiting Engg. Faculty								
TA / RA								

BSc	
MSc	
PhD	

Scenario at the time of Last PEC Visit

Number of Faculty members who left the program since last PEC Visit

	Faculty teaching Engineering Subjects				Faculty teaching Non-Engineering Subjects			
	BSc	MSc	PhD	TOTAL	BSc	MSc	PhD	TOTAL
Program Faculty (Dedicated)								
Program Faculty (shared with other programs)								
Shared Faculty (from other programs)								
Visiting Engg. Faculty								
TA / RA								

BSc	
MSc	
PhD	

Annex K

Faculty Workload

List the faculty members in the same sequence as listed in ***Faculty Strength*** sheet

Sr. No.	Name	Degree Level	Current Semester Loading			Last Semester Loading		
			Credit Hours		Course Titles	Credit Hours		Course Titles
			Theory	Practical		Theory	Practical	
		BS						
		MS/PhD						
		BS						
		MS/PhD						
		BS						
		MS/PhD						
		BS						
		MS/PhD						
		BS						
		MS/PhD						
		BS						
		MS/PhD						
		BS						
		MS/PhD						
		BS						
		MS/PhD						

Financial Health**University Income Details**

Sr. No.	Source of Income	Current Fiscal-Year	1st Previous Fiscal-Year		2nd Previous Fiscal-Year	
			Budgeted	Actual (as per Audit Report)	Budgeted	Actual (as per Audit Report)
A	Grants from HEC					
B	Self-Finance Schemes					
C	Tuition-Fee					
D	.					
E	.					

University Expenditure Details

Sr. No.	Expenditure Head	Current Fiscal-Year	1st Previous Fiscal-Year		2nd Previous Fiscal-Year	
			Budgeted	Actual (as per Audit Report)	Budgeted	Actual (as per Audit Report)
A	Faculty and Supporting Staff Salaries					
B	Maintenance of Existing Facilities					
C	.					
D	.					
E	.					