

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Mapping of Course outcome with program outcome
Regulation -2017
IV Year

VII SEMESTER

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8701 – ANTENNA AND MICROWAVE ENGINEERING
COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C401.1	Learn the basic principles of antenna	U
C401.2	Apply the basic principles of antenna and Evaluate antenna parameters and link power budgets	A
C401.3	Design and assess the performance of various antennas	A
C401.4	Learn the basics of microwave system	U
C401.5	Design a microwave system given the application specifications	A

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C401.1	2	2	1	1	1	1					1	1	1	1	
C401.2	3	3	2	2	2	2					2	2	2	2	1
C401.3	3	3	2	2	2	2					2	2	2	2	1
C401.4	2	2	1	1	1	1					1	1	1	1	
C401.5	3	3	2	2	2	2					2	2	2	2	1
C401	2.6	2.6	1.6	1.6	1.6	1.6					1.6	1.6	1.6	1.6	1

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8751 – OPTICAL COMMUNICATION AND NETWORKS
COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C402.1	Realize basic elements in optical fibers,different modes and configurations	U
C402.2	Analyze the transmission characteristics associated with dispersion and polarization techniques	An
C402.3	Design optical sources and detectors with their use in optical communication system	A
C402.4	Construct fibre optic receiver system, measurements and coupling techniques	A
C402.5	Design Optical Communication Systems and its networks	A

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	2	2	1	1		1	-	-	-	-	1	2	2	2	1
C402.2	3	3	2	2		2	-	-	-	-	2	3	3	3	2
C402.3	3	3	2	2		2	-	-	-	-	2	3	3	3	2
C402.4	3	3	2	2		2	-	-	-	-	2	3	3	3	2
C402.5	3	3	2	2		2	-	-	-	-	2	3	3	3	2
C402	2.8	2.8	1.8	1.8		1.8					1.8	2.8	2.8	2.8	1.8

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8791 – EMBEDDED AND REAL TIME SYSTEMS

COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C403.1	Describe the architecture and programming of ARM processor	U
C403.2	Outline the concepts of embedded systems	U
C403.3	Explain the basic concepts of real time operating system design	U
C403.4	Model real-time applications using embedded-system concepts	A
C403.5	Analyze the concepts of real time operating system design	An

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	2	2	1	1	1	1					1	2	2	2	2
C403.2	2	2	1	1	1	1					1	2	2	2	2
C403.3	2	2	1	1	1	1					1	2	2	2	2
C403.4	3	3	2	2	2	2					2	2	3	3	2
C403.5	3	3	2	2	2	2					2	2	3	3	2
C403	2.4	2.4	1.4	1.4	1.4	1.4					1.4	2	2.4	2.4	2

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8702-Adhoc and Wireless Sensor Networks

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C404.1	Know the basics of Ad hoc networks and Wireless Sensor Networks	U
C404.2	Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement	A
C404.3	Apply the knowledge to identify appropriate physical and MAC layer protocols	A
C404.4	Understand the transport layer and security issues possible in Ad hoc and sensor networks.	U
C404.5	Be familiar with the OS used in Wireless Sensor Networks and build basic modules	U

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C404.1	2	2	1	1	1	1					1	1	2	2	1
C404.2	3	3	2	2	2	2					2	2	3	3	2
C404.3	3	3	2	2	2	2					2	2	3	3	2
C404.4	2	2	1	1	1	1					1	1	2	2	1
C404.5	2	2	1	1	1	1					1	1	2	2	1
C404	2.4	2.4	1.4	1.4	1.4	1.4					1.4	1.4	2.4	2.4	1.4

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
GE8071 – DISASTER MANAGEMENT
COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C405.1	Differentiate the types of disasters	U
C405.2	Differentiate the causes of disasters and their impact on environment and society	U
C405.3	Assess vulnerability and various methods of risk reduction measures as well as mitigation	A
C405.4	Draw the hazard and vulnerability profile of India	U
C405.5	Understand about disaster damage assessment and management	U

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C405.1						2	2	2	2	2	1	1			1
C405.2						2	2	2	2	2	1	1			1
C405.3						3	3	3	3	3	2	2			2
C405.4						2	2	2	2	2	1	1			1
C405.5						2	2	2	2	2	1	1			1
C406						2.2	2.2	2.2	2.2	2.2	1.2	1.2			1.2

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
OCS752- INTRODUCTION TO C PROGRAMMING

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C406.1	Describe the advantages of a high level language like C/C++, the programming process, and the compilation process	U
C406.2	Describe and use software tools in the programming process	U
C406.3	Apply good programming principles to the design and implementation of C/C++ programs	A
C406.4	Design, implement, debug and test programs using the fundamental elements of C/C++	A
C406.5	Design, implement, debug and test programs using the fundamental elements of C/C++	A

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C405.1	2	2	1	1	1	0					1	1	1	1	1
C406.2	2	2	1	1	1	0					1	1	1	1	1
C406.3	3	3	2	2	2	1					2	2	2	2	2
C406.4	3	3	2	2	2	1					2	2	2	2	2
C406.5	3	3	2	2	2	1					2	2	2	2	2
C406	2.6	2.6	1.6	1.6	1.6	0.6					1.6	1.6	1.6	1.6	1.6

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8711 – EMBEDDED LABORATORY
COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C407.1	Write programs in ARM for a specific Application	U
C407.2	Interface memory, A/D and D/A convertors with ARM system	A
C407.3	Analyze the performance of interrupt	AN
C407.4	Write program for interfacing keyboard, display, motor and sensor.	U
C407.5	Formulate a mini project using embedded system	AN

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C407.1	2	2	1	1	1	1					1	1	2	2	2
C407.2	3	3	2	2	2	2					2	2	3	3	3
C407.3	3	3	2	2	3	2					2	3	3	3	3
C407.4	2	2	1	1	1	1					1	1	2	2	2
C407.5	3	3	2	2	3	2					2	3	3	3	3
C407	2.6	2.6	1.6	1.6	2	1.6					1.6	2	2.6	2.6	2.6

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8761 – ADVANCED COMMUNICATION LABORATORY

COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C408.1	Analyze the performance of simple optical link by measurement of losses and Analyzing the mode characteristics of fiber	AN
C408.2	Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER	AN
C408.3	Estimate the Wireless Channel Characteristics	A
C408.4	Analyze the performance of Wireless Communication System	AN
C408.5	Understand the intricacies in Microwave System design	A

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C408.1	3	3	3	3	3	3					3	3	3	3	3
C408.2	3	3	3	3	3	3					3	3	3	3	3
C408.3	3	2	2	2	2	2					2	2	2	2	2
C408.4	3	3	3	3	3	3					3	3	3	3	3
C408.5	3	2	2	2	2	2					2	2	2	2	2
C408	3	2.6	2.6	2.6	2.6	2.6					2.6	2.6	2.6	2.6	2.6

VIII SEMESTER

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8094-SATELLITE COMMUNICATION

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C409.1	Analyze the satellite orbits	AN
C409.2	Analyze the earth segment and space segment	AN
C409.3	Analyze the satellite Link design	AN
C409.4	Analyze the satellite access and coding methods	AN
C409.5	Design various satellite applications	A

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409.1	3	3	3	3	2	2					2	2	3	3	2
C409.2	3	3	3	3	2	2					2	2	3	3	2
C409.3	3	3	3	3	2	2					2	2	3	3	2
C409.4	3	3	3	3	2	2					2	2	3	3	2
C409.5	2	2	2	2	2	2					2	2	2	2	1
C409	2.8	2.8	2.8	2.8	2	2					2	2	2.8	2.8	1.8

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
GE8076 – PROFESSIONAL ETHICS IN ENGINEERING

COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C410.1	Outline the core values that enrich the ethical behavior of an engineer.	R
C410.2	Explain the perception in ethics towards the profession, various moral issues, and theories on moral development	U
C410.3	Associate the code of ethics in real time application as responsible experimenters and understand the various	U
C410.4	Aware of responsibilities of an engineer for safety and risk benefit	U
C410.5	Have a clear idea about the global issues	A

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C410.1						1	1	1	1	1	1	1			1
C410.2						2	2	2	2	2	2	2			2
C410.3						2	2	2	2	2	2	2			2
C410.4						2	2	2	2	2	2	2			2
C410.5						2	1	3	3	3	3	3			3
C410						1.8	1.6	2	2	2	2	2			2

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EC8811 – PROJECT WORK
COURSE OUTCOMES

After successful completion of the course, the students should be able to

CO No.	Course Outcomes	Cognitive Level
C411.1	Analyze a real world problem, review literature and suggest its solution..	An
C411.2	Perform data analysis, interpret and provide valid conclusions	An
C411.3	Perform multi-disciplinary task as an individual and / or team member to manage the project/task.	An
C411.4	Comprehend the Engineering activities with effective presentation and report.	An
C411.5	Interpret the findings with appropriate technological / research citation.	An

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME

Course Outcomes	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C411.1	3	3	3	3	3	3		3	3	3	3	3	3	3	3
C411.2	3	3	3	3	3	3		3	3	3	3	3	3	3	3
C411.3	3	3	3	3	3	3		3	3	3	3	3	3	3	3
C411.4	3	3	3	3	3	3		3	3	3	3	3	3	3	3
C411.5	3	3	3	3	3	3		3	3	3	3	3	3	3	3
C411	3	3	3	3	3	3		3	3	3	3	3	3	3	3

HOD/ECE