

2 - Apply communication skills in presentations and report writing using various methods and tools

ABET Course outcomes :

1 -	Demonstrate understanding of basic embedded systems concepts, design principles, practices, and techniques.
2 -	Compare embedded system design models using different processor technologies.
3 -	Analyze and compare the various types of peripherals used in embedded systems.
4 -	Analyze a given embedded system design and identify its performance critical points.
5 -	Utilize a top-down modular design process to complete a medium complexity embedded system design project under instructor specified design constraints.
6 -	Communicate effectively.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Revision on basics of microprocessors	4	2	2
Introduction . Basic concepts of embedded systems	4	2	2
Disciplined development . Organization aspects of embedded systems	4	2	2
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Installing embedded systems building blocks	4	2	2
Installing embedded systems building blocks	4	2	2
Troubleshooting	4	2	2
Troubleshooting	4	2	2
Mid Term Exam	2		
Troubleshooting tools	4	2	2
Applications and case studies	4	2	2
Applications and case studies	4	2	2
Project presentation	4	2	2
Final Exam	2		

Teaching And Learning Methodologies :

Interactive Lectures including discussion
 Practical Lab Sessions
 Self-Study (Project / Reading Materials / Online Material / Presentations)
 Case Studies

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	50.00	14	
Midterm Exam (s)	20.00	9	

Others (Participation)	10.00		
Practical Exam	10.00		
Quizzes	10.00	5	
Team Work Projects	10.00		

Course Notes :

Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)

Recommended books :

G. R. Wilson, Embedded Systems and Computer Architecture, Elsevier Science, latest edition.

Web Sites :

IEEE transactions on Embedded Systems