- "Power Electronics" M. H. Rashid 3rd edition, PHI / Pearson publisher 2004.
- "Power Electronics" M. D. Singh and Kanchandani K.B. TMH 2. publisher, 2nd Ed. 2007.

REFERENCE BOOKS:

- "Power Electronics, Essentials and Applications", L Umanand, John Wiley India Pvt. Ltd, 2009.
- "Power Electronics", Daniel W. Hart, McGraw Hill, 2010. 2.
- "Power Electronics", V Nattarasu and R.S. Anandamurhty, Pearson/Sanguine Pub. 2006.

EMBEDDED SYSTEM DESIGN

Subject Code	: 10EC74	IA Marks	: 25
No. of Lecture Hrs/Week	: 04	Exam Hours	: 03
Total no. of Lecture Hrs.	: 52	Exam Marks	: 100

UNIT 1:

Introduction to Embedded System: Introducing Embedded Systems, Philosophy, Embedded Systems, Embedded Design and Development Process.

UNIT 2:

The Hardware Side: An Introduction, The Core Level, Representing Information, Understanding Numbers, Addresses, Instructions, Registers-A First Look, Embedded Systems-An Instruction Set View, Embedded Systems-A Register View, Register View of a Microprocessor The Hardware Side: Storage Elements and Finite-State Machines (2 hour) The concepts of State and Time, The State Diagram, Finite State Machines-A Theoretical Model.

UNIT 3:

Memories and the Memory Subsystem: Classifying Memory, A General Memory Interface, ROM Overview, Static RAM Overview, Dynamic RAM Overview, Chip Organization, Terminology, A Memory Interface in Detail, SRAM Design, DRAM Design, DRAM Memory Interface, The Memory Map, Memory Subsystem Architecture, Basic Concepts of Caching, Designing a Cache System, Dynamic Memory Allocation.

UNIT 4:

Embedded Systems Design and Development: System Design and Development, Life-cycle Models, Problem Solving-Five Steps to Design, The

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