

 SHIVAJIUNIVERISTY,KOLHAPUR-416004. MAHARASHTRA

 PHONE : EPABX-2609000 website- www.unishivaji.ac.in

 FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

 शिवाजी विद्यापीठ, कोल्हापूर – 416004.

"A" Re-accredited By NAAC दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४) (2014) with CGPA-3.16 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Date:-6-07-2015

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SU/BOS/Engg/ 3072

The Principal All affiliated Engineering Colleges Shivaji University, Kolhapur.

Sub-: Minor Modification in the structure and syllabi of M.E.Electronics Engineering Part-I Sem II under the Faculty of Engineering & Technology.

Ref-: SU/BOS/Engg./ 3859 dtd.26/6/2014.

Sir/Madam

mentioned below

With reference to the subject mentioned above, I am directed to inform you that the University authorities have made some minor modification in the structure and syllabi of M.E.Electronics Engineering Part-I Sem II **"Real Time Embedded Systems design"**

The term, 'design' has been deleted from title of the paper "Real Time Embedded Systems" mentioned in the structure and the copy of modified syllabi

M.E. (Electronics Engineering) Revised (Sem. II) with effect from July 2014 onwards REAL TIME EMBEDDED SYSTEMS	
Theory :- 100marks. POE :- 25 marks.	
(6) structions and assembly	
(6)	
cted region, initialising ables, TLB, Caches and	
(6)	
ADC and SPI interfacing 21/23/25),	
(6)	
, shared resources, Task pre-emptive schedulers, poxes. Message queues,	

Contd...

(6) Kernel Structure: Tasks, Task State, Task Level Context Switching, Locking and unlocking of scheduler, Idle Task, Statistics Task, Interrupts, Clock Tick, Initialization, Starting the OS, Task Management: Creating/deleting and Suspending/ Resuming Task, Task Stacks and checking, Changing Task's Priority.

UNIT VI Time Management and Event Control Blocks

(6)

Time Management: Delaying/Resuming Task, System Time. Event Control Blocks: Initialization of ECB, Placing/Removing Task from ECB waitlist, Finding Highest Priority Task, List of Free ECB, Task State Management. Communication in µCOS-II

Practicals: (Any 8)

- 1. Any 2 experiments on Assembly language programming on LPC 29xx series.
- Any 4 experiments on ARM peripherals using embedded 'C' on keil. 2.
- 3. Any 4 experiments on RTOS/ μ COS experiments.

Text Books:

- 1. ARM System Developers Guide 1st edition, Designing & Optimizing System Software by Andraw sloss.
- 2. Embedded softer primer by David Simon, Person Education.
- MicroC/OSII the Real Time Kernel, 2nd Edition, Jim Labarosse, CMP Books, PIC C Manual, CCS Inc.
 LPC 29xx series data sheet on www.ARM.com.

The above modifications shall come in the effect from the academic year 2014-15 onwards. This syllabi is also available on university website www.unishivaji.ac.in You are therefore requested to bring this to the notice of all teachers & students concerned.

Thanking you.

Yours faithfully, Sd/-Dy. Registrar

Copy f.w.cs.to

- 1) Dean, Faculty of Engineering & Technology
- 2) Chairman, B.O.S. in Electronics Engineering

For information

Copy to:

- 1) O.E.-4 Section 2) Appointment Section.
- 3) Affiliation Section. For information and necessary action.

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4) Computer centre