

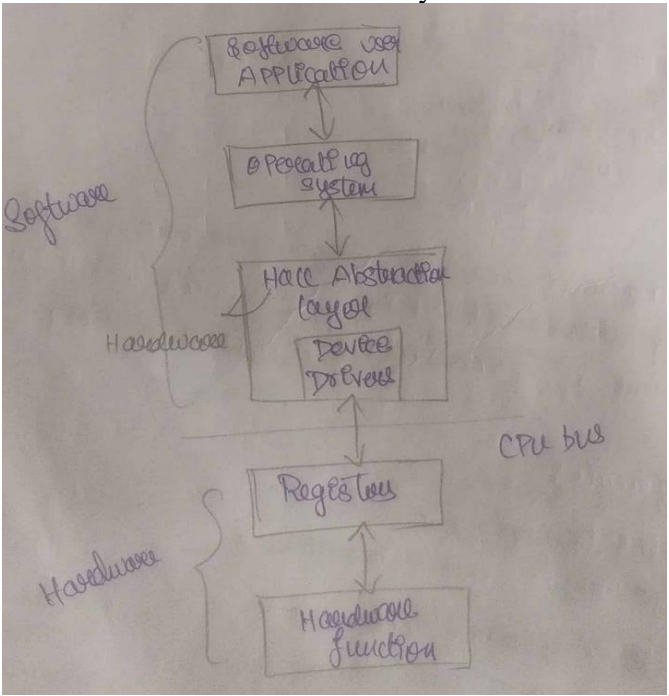
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

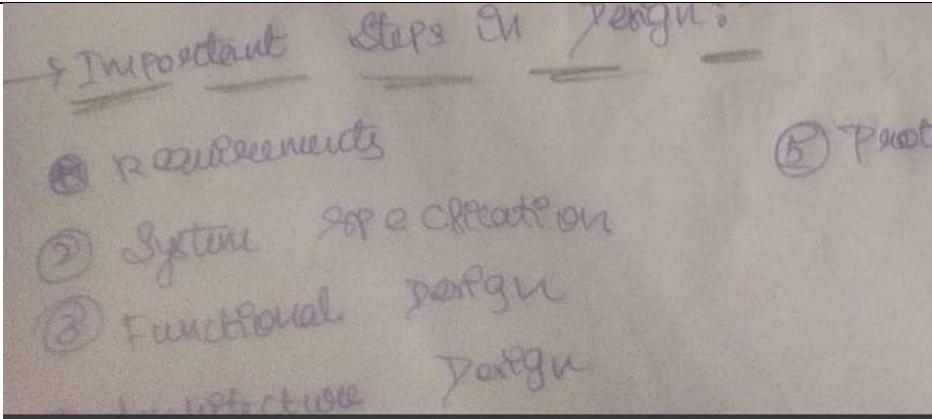
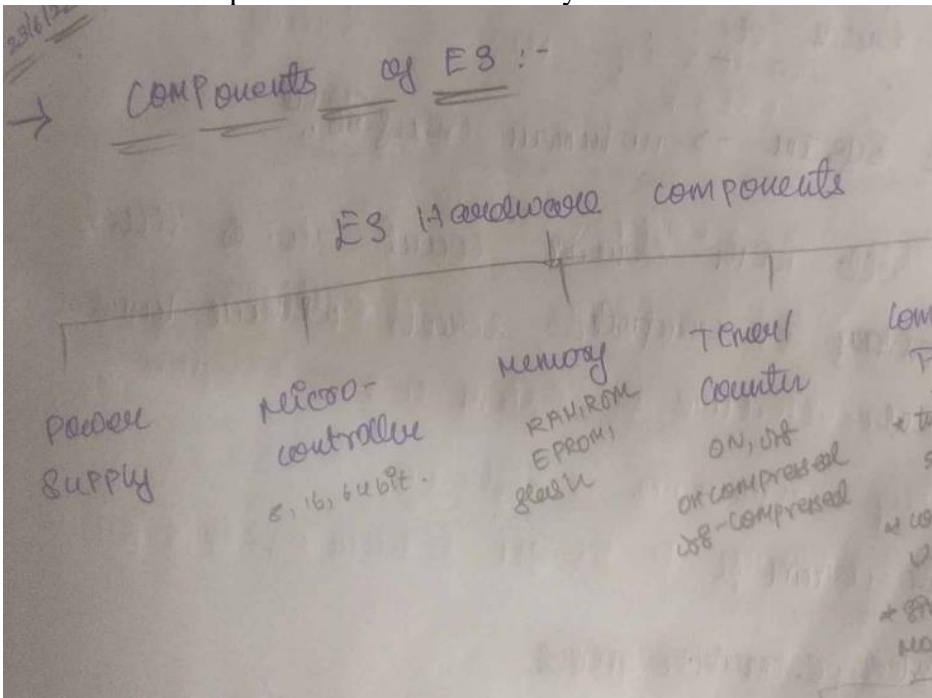
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

QUESTION BANK

SCSA1701 CYBER PHYSICAL SYSTEMS

UNIT – II

S.No	PART-A	CO	Blooms Level
1	<p>Define Embedded Systems.</p> <p>An embedded system is a combination of computer hardware and software designed for a specific function. Embedded systems may also function within a larger system</p>	CO 2	L1
2	<p>What are the specifications of embedded system?</p> <p>Structure-oriented models describe the system's physical modules and the interconnections between them. They are well-suited at describing a particular architecture, such as a four-processor implementation with shared memory and an eight-processor implementation with cross-bar communication</p>	CO 2	L2
3	<p>Different abstraction levels in embedded system models.</p> 	CO 2	L3
4	<p>Steps involved in developing an embedded system.</p>	CO 2	L3

			
5	<p>List out some examples for embedded systems.</p> <ul style="list-style-type: none"> • Digital cameras. • Digital wristwatches. • MP3 players • Temperature measurement systems. • Calculators. 	CO 2	L2
6	<p>What are the components of an embedded system?</p> 	CO 2	L3
7	<p>What are the analysis techniques for decentralized computer architectures?</p>	CO 2	L4
8	<p>Discuss about cyber physical system hardware platform.</p>	CO 2	L5
9	<p>Describe Processors, Sensors, and Actuators.</p> <p>A processor is an integrated electronic circuit that performs the calculations that run a compute</p> <p>A sensor is a device that detects and responds to some type of input from the physical environment.</p> <p>An actuator is a component of a machine that is responsible for moving and controlling a mechanism or system</p>	CO 2	L3
10	<p>How does Real Time Operating System (RTOS) work?</p> <p>RTOS pdf of your notes</p>	CO 2	L4

S.No	PART- B	CO	Blooms Level
1	Discuss about Embedded Systems definition, specification, and languages in detail.	CO2	L2
2	Comment on different abstraction levels in embedded system models.	CO2	L3
3	Elaborate the Design, analysis techniques for decentralized computer architectures.	CO2	L4
4	Explain the cyber physical system hardware platform.	CO2	L3
5	Describe Real Time Operating System (RTOS) with an example.	CO2	L5