## Course: SEC Electronics Practical - SEM II Skill based practical in Computer Organization

Semester: II Credits: 2 Subject Code: BSSECCSE22302 Lectures: 30

## **Course Outcomes:**

At the end of this course, the learner will be able to:

- CO1- Identify and test gates, Computer hardware and network devices
- CO2- Construct the combinational and sequential logic circuits, build and test circuits using simulation software.
- CO3- Classify different semiconductor memories; recognize the principal memory technologies from a hierarchical viewpoint with emphasis on cache memory.
- CO4- Work effectively and responsibly as a team member to perform experiments, report writing, using modern tools and techniques.

The practical course consists of 8 experiments out of which one will be activity equivalent to two experimental sessions. Activity will carry 15% marks at internal and external semester examinations. Internal marks will be calculated in continuous assessment of each practical weekly based on viva.

30

Unit 2: SEC sem 2 - Practical	
<ul> <li>PSpice -PN junction diode/Half Adder</li> <li>Half Adder/Full Adder</li> <li>Introduction to virtual lab-Components and gates</li> <li>Study of read and write the action of RAM</li> <li>Build and Test Diode matrix</li> <li>PPT on Microprocessors</li> </ul>	



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## **Reference Books:**

- Floyd T.M, Digital Fundamentals, tenth edition, Pearson
- Jain R.P, Digital Electronics, Tata McGraw Hill
- M.Morris Mano, "Digital Design "3rdEdition, PHI, New Delhi
- S.Salivahanan S. Arivazhagan-Digital Circuits and Design

## Websites:

- https://www.vlab.co.in/broad-area-electronics-and-communications
- https://www.vlab.co.in/broad-area-computer-science-and-engineering
- <a href="https://cse11-iiith.vlabs.ac.in/exp/integers-arithmetic/">https://cse11-iiith.vlabs.ac.in/exp/integers-arithmetic/</a>
- (https://coa-iitkgp.vlabs.ac.in/exp/karnaugh-map/)

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Subject Expert (Outside SPPU)	Dr.Sangeeta Kale, Professor	
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Alumni	Ms. Prerna Polekar -	



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