VLSI Design and Technology 404181 SEM-I

Sr No	Code	Statement
1	C411.1	Construct digital circuit, construct them using HDL and to write test bench codes for simulation
2	C411.2	Examine the circuits with the knowledge of real time issues in digital design
3	C411.3	classify various PLDs and their tools for simulation and synthesis and prototype in PLDs.
4	C411.4	Design CMOS circuits for specified applications and investigate
5	C411.5	Design of ASIC CMOS circuits for specified applications considering various issues and constraints
6	C411.6	Use the knowledge of testability in design and built in self test circuits

Networks & Security 404182 SEM-I

Sr No	Code	Statement
1	C412.1	**Explain** fundamental underlying principles of networking
2	C412.2	**Describe** the hardware, software, components of a network and their interrelations.
3	C412.3	Select the most appropriate networking architecture and technologies based on the requirements for a given organizational structure
4	C412.4	**State** the basic knowledge of installing and configuring networking applications.
5	C412.5	**Identify** deficiencies in existing protocols, and then go onto select new and better protocols
6	C412.6	**Identify** the use of cryptography and network security.

Radiation and Microwave Theory 404181 SEM-I

Sr No	Code	Statement
1	C413.1	Compare various performance parameters of radiating elements.
2	C413.2	Compare various radiating elements and arrays.
3	C413.3	Use the fundamental knowledge of electromagnetic theory to understand the working of different transmission lines and waveguides.
4	C413.4	Implement a system consisting of various passive microwave components with their application
5	C413.5	Examine tube based and solid state active devices along with their applications.

6	**C413.6**	Descrtibe the different microwave measuring devices & techniques

Digital Image and Video Processing 404184 SEM-I

Sr No	Code	Statement
1	C414A.1	Classify the fundamental concepts of Image processing algorithms with its basic operations on 2D data
2	C414A.2	Discuss and classify the spatial and frequency domain techniques for Image restoration and enhancement
3	C414A.3	Select effective use of resources such as storage and bandwidth and ways to provide effective use of them by data compression techniques and apply.
4	C414A.4	Interpret the segmentation algorithms with various processing operations on it and to select the image analysis algorithms for real world application
5	C414A.5	Select objects and region of the image with appropriate method.
6	C414A.6	Describe the video signal representation and different algorithm for video processing