

S.S.G.M.C.E. SHEGAON

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

COURSE OUTCOMES OF ALL COURSES OF THE EIGHTH SEMESTER B.E. (ELECTRONICS AND TELECOMMUNICATION ENGINEERING)

8ETC01 - Embedded Systems

After successfully completing the course, the students will be able to:

CO1	Understand the concepts and quality attributes of Embedded Systems
CO2	Understand the architecture and inbuilt peripherals of AVR Microcontroller
CO3	Develop and analyze the programming of AVR Microcontroller in C for various loads
CO4	Understand the concepts of RTOs and debugging of Embedded Systems

8ETC02 - Microwave Theory and Techniques

After successfully completing the course, the students will be able to:

CO1	Understand operations of microwave active and passive devices.
CO2	Understand operations of Semiconductor Microwave Devices.
CO3	Describe characteristics of microwave propagation through waveguide and parallel microstrip line
CO4	Understand Operations of Microwave resonators.
CO5	Use S-parameters for characterization of microwave devices.
CO6	Measure various parameters of microwave system

8ETC03 - Wireless Sensor Networks

After successfully completing the course, the students will be able to:

CO1	Understand the basis of Sensors with its applications
CO2	To learn the architecture and placement strategies of Sensors
CO3	To analyze routing and congestion algorithms
CO4	To design, develop, and carry out performance analysis of sensors on specific applications
CO5	To explore and implement solutions to real-world problems using sensor devices, enumerating its principles of working
CO6	To understand the working through the case study on WSN

8ETC04 - 5G-6G Mobile Communication

After successfully completing the course, the students will be able to:

CO1	Illustrate the evolution of mobile communication leading to the introduction of 5G.
CO2	Explain the key innovations in radio and networks.
CO3	Elaborate the standardization process and timeline for 5G and to know key issues
	and challenges in 5G deployment.
CO4	Identify the spectrum requirements of 5G and understand the concept of 6G