

EETE 4130	Microwave Engineering	3 Credit Hours
Prerequisites:	EETE 3190, EETE 3211	
Goal	To enable the students to acquire knowledge in Microwave techniques, devices, components and their applications.	
Objectives		Outcomes
<p>This course should enable the students to:</p> <ol style="list-style-type: none"> 1. Analyze and characterize microwave transmission lines and waveguides. 2. Understand about the functions and uses of microwave components and devices 3. Gain the knowledge about microwave integrated circuits and microstrip lines. 4. Know about the different applications of microwaves in real life. 		<p>After satisfactory completion of the course a student should be able to:</p> <ol style="list-style-type: none"> 1. Understand microwave transmission line analysis techniques. 2. Understand the concept of impedance matching circuits and design them. 3. Analyze various waveguide structures for propagation. 4. Know about the different microwave components and characterize them. 5. Understand the principle of operation of microwave transistors. 6. Describe about the construction and functions of microwave diodes. 7. Explain various types of microwave tubes for amplification and oscillation. 8. Know about the structures and features of microwave strip lines. 9. Explain about the microwave integrated circuits. 10. Know and use microwave measurement equipments. 11. Describe a useful practical application involving microwaves.