

A microwave laboratory has been developed for both instructional and research usage. A senior laboratory class is currently being taught which stresses characterization of active and passive components, spectral analysis, antennas, and propagation. A graduate-level laboratory course on high-frequency device characterization has also been developed. The facilities are also being employed in research programs on microwave semiconductor devices, optical diffusion imaging, and high speed interconnects. The major items of equipment include an HP8510B network analyzer which includes a lightwave test set, a Tektronix 2755AP spectrum analyzer with external mixers, and a noise figure test system based on an HP8970B noise figure meter. These systems currently provide measurement coverage up to 40 GHz. An indoor antenna test range has also been fabricated.

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