Introduction to the technologies for multimedia communications, multimedia data, including video, image, and audio. Multimedia Compression, Encoding and Compression Techniques, Image Compression JPEG, JPEG2000, Video Compression MPEG/MPEG2/MPEG4, H264. Networking aspect, special considerations for sending multimedia over ATM, wireless, and IP networks, such as error resilience and quality of service. Streaming video standards, Video broadcasting, Video on Demand and, Videoconferencing. (Pre-requisites: ECE 3123, ECE 3242)