



Institute of Electrical and
Electric Engineers



ETA Kappa Nu

At the Klipsch School of
Electrical and Computer
Engineering, we provide
"big school"
opportunities with a
"small school"
atmosphere.

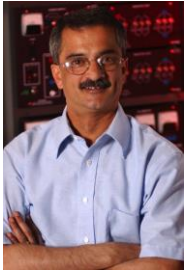
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Klipsch School
Of Electrical and
Computer
Engineering



*Transforming Lives Through
Discovery*



Letter from the Department

Welcome to the Klipsch School of Electrical and Computer Engineering. We are housed in the College of Engineering at NMSU, which is ranked 10th in the nation for total research and development expenditures in engineering-related projects by the National Science Foundation.

The Klipsch School prepares students for challenging careers where they can apply a broad spectrum of knowledge in electronics and computing to solve real-world problems that help improve our lifestyles, create wealth, and discover new technologies. Our graduates can be found in private industry, government service, and research laboratories throughout the United States and in many other countries. The Klipsch School currently offers BS, MS, and PhD degrees in Electrical Engineering, with specialties ranging from computers to optics! Our extensive summer internship and semester co-op programs help prepare students for entering the workforce. Our state-of-the-art research trains graduate students to face the theoretical and technical challenges of tomorrow. Our department is large enough to give students the experiences that will be found in many other research universities, yet small enough to have close interaction with faculty and peers.

Warmly,
Dr. Satish Ranade,
Department Head
eceoffice@nmsu.edu
(575) 646-3115



Electrical and Computer Engineering Studies

Electrical and computer engineering students at NMSU gain a breadth of knowledge across a range of topics in a hands-on intensive curriculum. The undergraduate program trains students to apply the fundamentals of mathematics and physics and the core areas of computer engineering, circuits and systems, electromagnetic and electronics to analyze problems and creatively design solutions. Electives are offered to provide an area of specialization, such as control systems, communications, computer architecture, digital design, electromagnetic, electronics, photonics, power, or signal processing. Students are well prepared to begin a career or continue their education in a graduate program.



Computer Engineering

Student will have the opportunity to obtain an in-depth knowledge of digital systems and practical experience in the design, operation, programming, and applications of digital computers. Students could expect to continue on in these areas to develop better and faster computers and interfaces.

Signals and Systems

Students working in this area could possibly work on cell phone design, satellites, sensor design and monitoring, imaging and pattern recognition (from security to medical applications), music (filtering signals, processing signals), any type of transmission (communication) from one place to another, noise reduction, analysis of signals.

Power and Control

Students in this area could expect to work in the generation, distribution and monitoring of systems which deliver power to consumers. Work in the control systems area provides the student with a background in modeling, analysis, design, simulation, and control of complex systems.

Photonics and Electromagnetics

Students could expect to work with lasers and laser applications including communications, imaging systems, and optical sensors. Students may also study electromagnetic fields, wave propagation, antennas, waveguides, transmission lines, lasers, and optics.

