



**UNIVERSITY OF
DR.PSJKUMAR**



**B.S/B.TECH
ELECTRONICS AND
COMMUNICATION ENGINEERING**

CURRICULUM 2023-24

SCHOOL OF SCIENCE AND TECHNOLOGY

ABOUT US

University of Dr.PSJKumar School of Science and Technology has various programs for diplomas, degrees, masters, and doctorates.

Dr.PSJKumar University's School of Science and Technology offers massive exposure to its students in the field of engineering and technology, enriching their skills as well as helping them to take visit several industries and MNC's. The University has several departments scattered all throughout Jacksonville, Florida, United States.

The University is especially popular among International students. The University has franchises around the globe including Queensland, India, Canada, Malaysia, and London.

B.S / B.TECH - ELECTRONICS AND COMMUNICATION ENGINEERING

The completion of the degree of bachelor of science/technology in electronics and communication engineering is accomplished in four years plus six months internship.



FOUR YEARS

REGULAR CURRICULUM

SIX MONTHS

INTERNSHIP



University of Dr.PSJKumar

FIRST YEAR

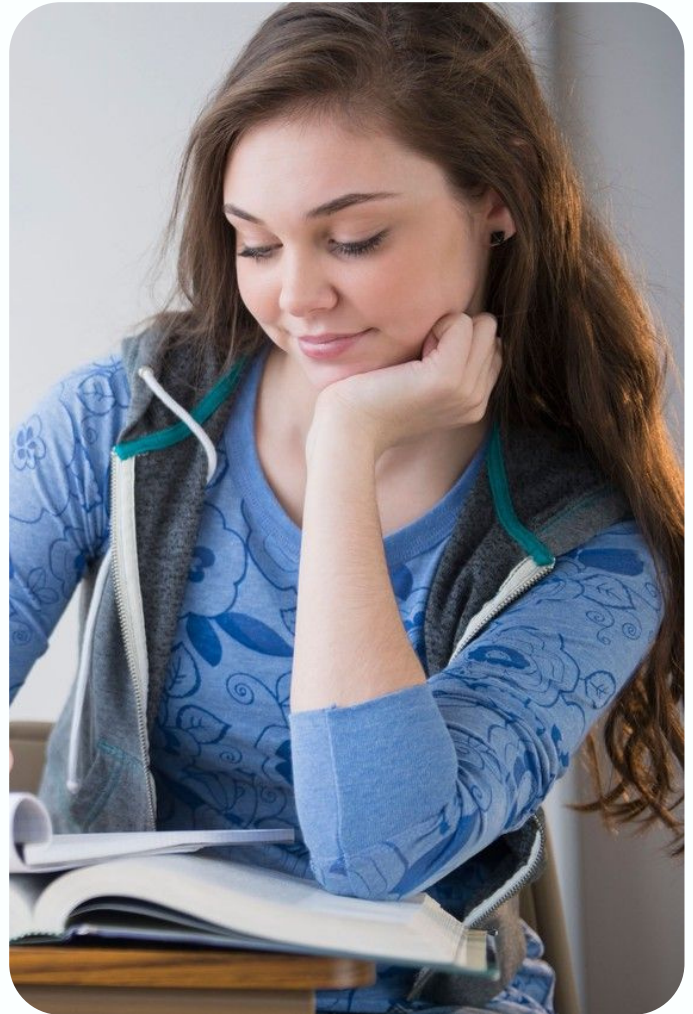
The four year curriculum is based on the departmental as well as interdisciplinary teaching. The first year offer the students an opportunity to develop a strong background in basic sciences and to receive an introduction to electronic devices. Every academic year consists of two semesters.

SEMESTER I

- Technical English
- Engineering Mathematics I
- Engineering Chemistry I
- Engineering Physics I
- Engineering Graphics
- Computer Programming
- Computer Practices Laboratory

SEMESTER II

- Engineering Mathematics II
- Engineering Chemistry II
- Engineering Physics II
- Basics of Electrical & Electronic Engg.
- Data Structure and Algorithm
- Electronic Device and Circuit
- Circuit and Device Laboratory



SEMESTER I

BASIC SCIENCES

SEMESTER II

ELECTRONIC DEVICES



SECOND YEAR

The second year offer the students an opportunity to develop a strong background in digital electronics and to receive an introduction to communication theory.

SEMESTER III

Analog Electronics
Electronic Instrumentation
Digital Electronics and Logic Design
Elective I
Network Analysis and Synthesis
Microprocessor and Microcontroller
Microprocessor Lab

SEMESTER IV

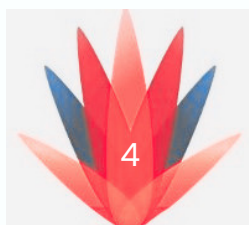
Electromagnetic Field Theory
Reliability and Quality Management
Communication Theory
Elective II
Electronic Switching Circuits
Integrated Circuits
Integrated Circuits Lab

The course serves as a transition from basic sciences to theoretical and experiential, analog and digital electronic communication.



SEMESTER III DIGITAL ELECTRONICS

SEMESTER IV COMMUNICATION THEORY



THIRD YEAR

The third year offer the students an opportunity to develop a strong background in wireless communication and to receive an intro to wireless sensor networks.

SEMESTER V

VLSI and MEMS Technology
Antenna and Wave Propagation
Elective III
Wireless Communication
Wireless Communication Lab
Digital Signal Processing
Digital Signal Processing Lab

SEMESTER VI

Optical Communication System
Industrial Electronics
Elective IV
Wireless Sensor Networks
Wireless Sensor Networks Lab
Nanoelectronics
Nanoelectronics Lab

The course serves as a transition from electronic engineering to advanced and modern wireless communication.

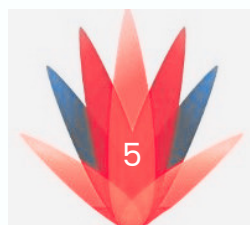


SEMESTER V

WIRELESS
COMMUNICATION

SEMESTER VI

WIRELESS SENSOR
NETWORKS



FOURTH YEAR

The fourth year offer the students an opportunity to develop a strong background in advanced designing of integrated circuits in electronics and communication projects.

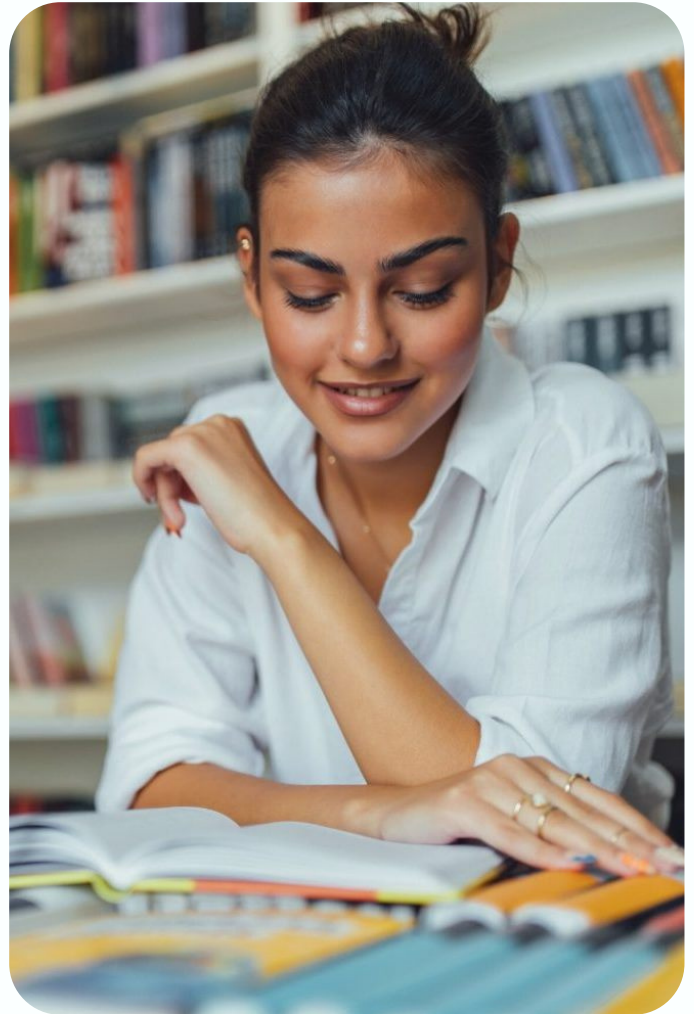
SEMESTER VII

Satellite Communication
Advanced IC Design
HDL Based Design
Elective V
Elective VI
Project Management
Mini-Project

SEMESTER VIII

Project and Viva

The elective program has a two fold purpose: 1) to aid the student in an expert career choice and 2) to offer an opportunity to build strengths in related fields. By the end of fourth year, students will be efficient enough in dealing with modern engineering and latest technology in electronics.



SEMESTER VII **PROJECT MANAGEMENT**

SEMESTER VIII **PROJECT**



FIFTH YEAR INTERNSHIP

The fifth year internship offer the students to practice their profession under expert guidance and supervision beforehand of becoming a full-fledged electronics and communication engineer.

FOR ADMISSION CONTACT

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University of Dr.PSJKumar
also offers B.S/B.Tech in;

Computer Science and Engineering
Robotics and Automation
Artificial Intelligence & ML
Electrical and Computer Engineering
Data Science and Engineering
Big Data and Cloud Computing



FIFTH YEAR SIX MONTHS INTERNSHIP



University of Dr.PSJKumar

