UNIVERSITY OF DR.PSJKUMAR

B.S/B.TECH MEDICAL ELECTRONICS

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 MEDICAL ELECTRONICS

The completion of the degree of bachelor of science/technology in medical electronics is accomplished in five academic years including four years of regular curriculum plus six months internship.

FOUR YEARS
REGULAR CURRICULUM

SIX MONTHS
INTERNSHIP

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 I
Engineering Mathematics I
Engineering Chemistry I
Engineering Physics I
Engineering Graphics
Computer Programming
Computer Practices Laboratory

SEMESTER II

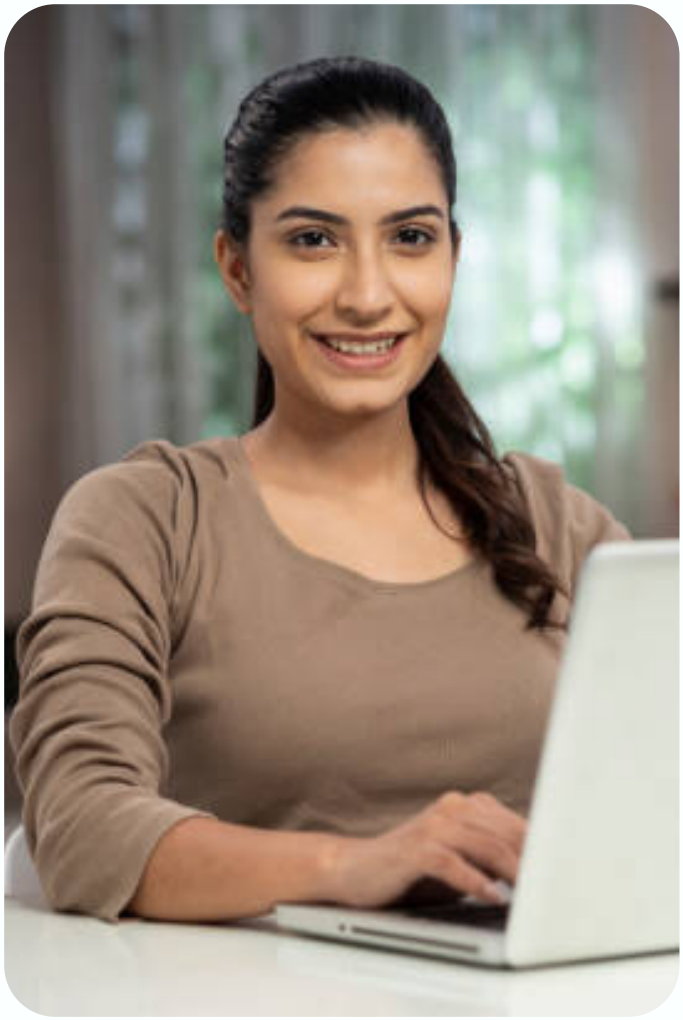
Technical English II
Engineering Mathematics II
Engineering Chemistry II
Engineering Physics II
Circuit Theory
Electronic Device and Circuit
Circuit and Device Laboratory

SEMESTER I
BASIC SCIENCES

SEMESTER II
ELECTRONIC DEVICES

SECOND YEAR

The second year offer the students an opportunity to develop a strong background in electronic circuits and to receive an introduction to integrated circuits.



SEMESTER III

Differential Equations
Measurement and Instrumentation
Signals and Systems
Elective I
Digital Electronics and System Design
Electronic Circuits
Instrumentation Laboratory

SEMESTER IV

Microprocessor and Microcontroller
Linear Integrated Circuits
Object-Oriented Programming
Elective II
Control System Engineering
Environmental Science and Engg.
Microprocessor & Microcontroller Lab

The course serves as a transition from basic sciences to theoretical and experiential electronic sciences and technologies.

SEMESTER III
ELECTRONIC CIRCUITS

SEMESTER IV
INTEGRATED CIRCUITS

THIRD YEAR

The third year offer the students an opportunity to develop a strong background in medical informatics and to receive an introduction to medical equipment.

SEMESTER V

Hospital Management
Principles of Digital Signal Processing
Internet and Java Programming
Elective III
Biomechanics
Medical Informatics
Internet and Java Programming Lab

SEMESTER VI

Digital Image Processing
Prosthetic Equipment
Diagnostic & Therapeutic Equipment
Elective IV
Neural Networks and Applications
Biomaterials and Artificial Organs
Diagnostic Equipment Laboratory

The course serves as a transition from electronic sciences to experiential and collaborative medical electronics.

SEMESTER V
MEDICAL INFORMATICS

SEMESTER VI
MEDICAL EQUIPMENT

FOURTH YEAR

The fourth year offer the students an opportunity to develop a strong background in medical physics, medical imaging, embedded systems and medical project.

SEMESTER VII

Artificial Intelligence
Physiological Modeling
Medical Imaging Techniques
Elective V
Elective VI
Embedded and Real-Time Systems
Medical Imaging Laboratory

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 both medical electronics and project management.

SEMESTER VII

EMBEDDED SYSTEMS

SEMESTER VIII

PROJECT

FIFTH YEAR INTERNSHIP

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

FOR ADMISSION CONTACT

Dr.P.S.Jagadeesh Kumar
Chancellor
University of Dr.PSJKumar
Florida | Queensland | Canada
Malaysia | India | London

chancellor@drpsjkumaruniversity.net
(+91)-9360-178-718

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

Biomedical Instrumentation
Pharmaceutical Engineering
Clinical Engineering
Genetics Engineering
Bioengineering
Chemical Engineering

FIFTH YEAR SIX MONTHS INTERNSHIP


DR.PSJKUMAR
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SCIENCE
TECHNOLOGY