



**UNIVERSITY OF
DR.PSJKUMAR**



**B.S/B.TECH
PHARMACEUTICAL 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 PHARMACEUTICAL ENGINEERING

The completion of the degree of bachelor of science/technology in pharmaceutical engineering is accomplished in five academic years including four years of regular curriculum 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 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
Basics of Electrical & Electronic Engg.
Electronic Device and Circuit
Circuit and Device Laboratory



SEMESTER I

BASIC SCIENCES

SEMESTER II

ELECTRONIC DEVICES



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SECOND YEAR

The second year offer the students an opportunity to develop a strong background in pharmacology and to receive an introduction to medicinal chemistry.

SEMESTER III

Probability and Statistics
Pharmacology
Modern Biology
Elective I
Pharmaceutical Chemistry
Physics of Materials
Pharmacology Laboratory

SEMESTER IV

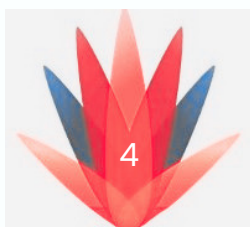
Fundamentals of Chemical Engg.
Medicinal Chemistry
Biochemical Engineering
Elective II
Food & Pharmaceutical Biochemistry
Environmental Science and Engg.
Medicinal Chemistry Laboratory

The course serves as a transition from basic sciences to theoretical and experiential pharmaceutical engineering.



SEMESTER III PHARMACOLOGY

SEMESTER IV MEDICINAL CHEMISTRY



THIRD YEAR

The third year offer the students an opportunity to develop a strong background in pharmacogenomics and to receive an introduction to pharmaceutical research.

SEMESTER V

Pharmaceutical and Drug Validation
Cell and Molecular Biology
Pharmacogenomics
Elective III
Genetic Engineering
Pharmaceutical Instrumentation
Pharmacogenomics Laboratory

SEMESTER VI

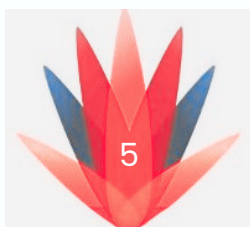
Pharmaceutical Dosage Forms
Modern Microbiology
Total Quality Management
Elective IV
Biopharmaceutical
Drugs & Pharmaceutical Research
Pharmaceutical Dosage Forms Lab

The course serves as a transition from pharmaceutical engineering to new product development and pharmaceutical research.



SEMESTER V PHARMACOGENOMICS

SEMESTER VI PHARMACEUTICAL RESEARCH



FOURTH YEAR

The fourth year offer the students an opportunity to develop a strong background in pharmacognosy, immunology, drug delivery and pharmaceutical project.

SEMESTER VII

Pharmacognosy
Advanced Drug Delivery System
Immunology
Elective V
Elective VI
Bioprocess Engineering
Pharmacognosy Laboratory

SEMESTER VIII

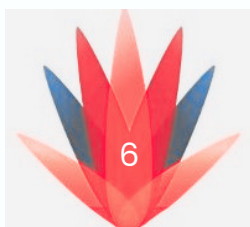
Project and Viva

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 pharmaceutical engineering and technology.



SEMESTER VII PHARMACOGNOSY

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 pharmaceutical engineer.

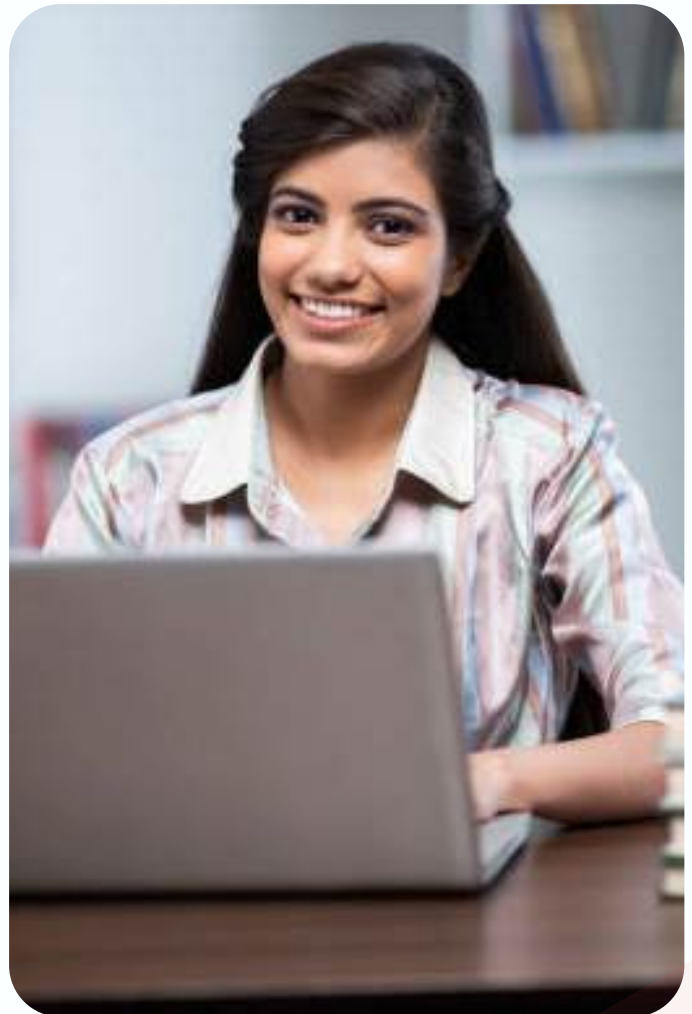
FOR ADMISSION CONTACT

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

Medical Electronics
Biomedical Instrumentation
Clinical Engineering
Genetics Engineering
Bioengineering
Chemical Engineering



FIFTH YEAR SIX MONTHS INTERNSHIP

temp metus eros,
tincidunt sed urna in,
fringilla metus eros
sed ncidun u.



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