



# UNIVERSITY OF DR.PSJ KUMAR



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

**CURRICULUM 2023-24**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

# ABOUT US

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

Dr.PSJ Kumar 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**

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**University of Dr.PSJ Kumar**

# 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



# 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.

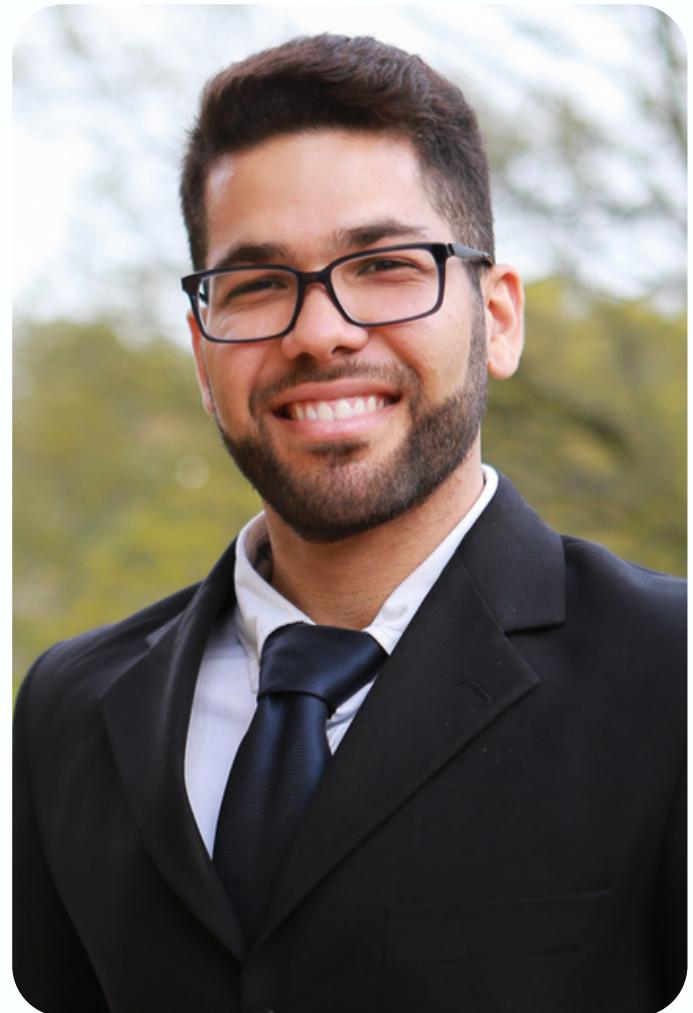
## SEMESTER III

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

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# 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.

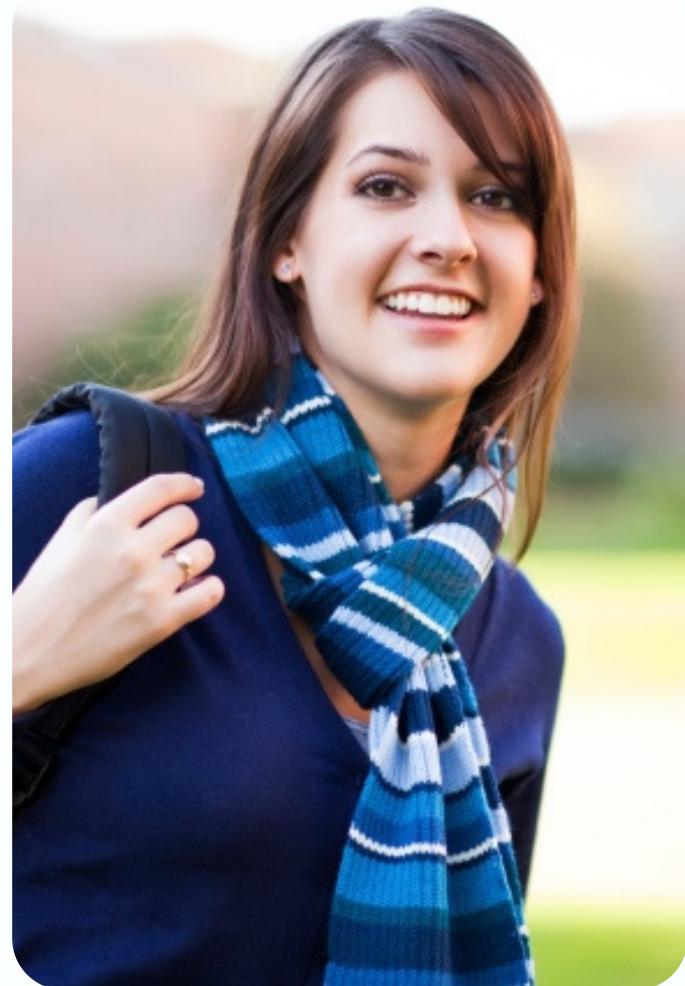
## SEMESTER V

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.

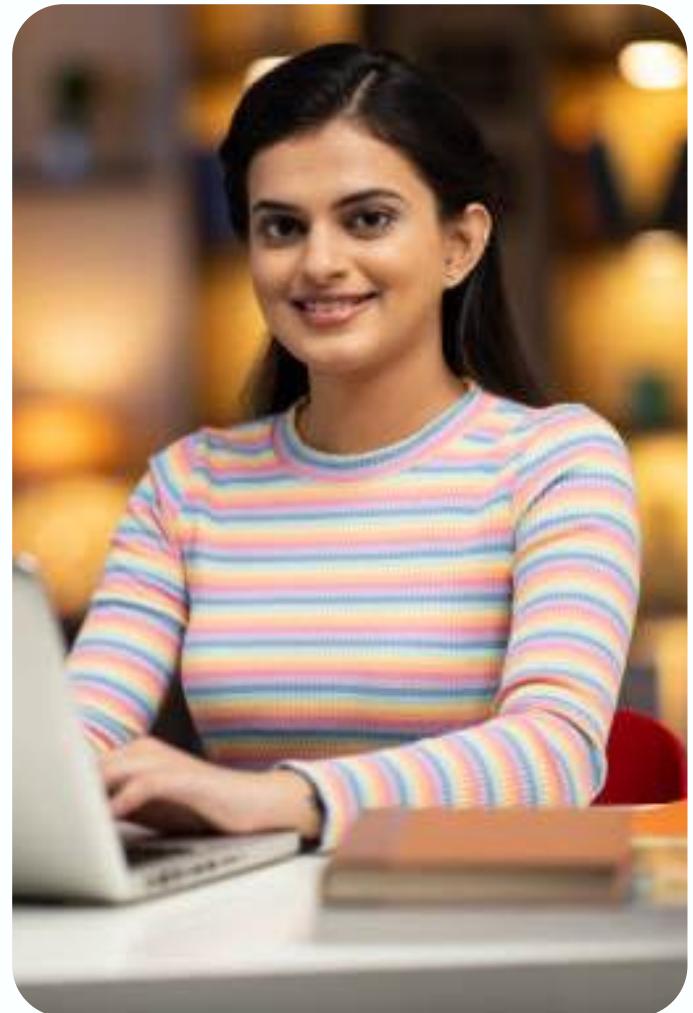
## SEMESTER VII

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

## SEMESTER VIII

Project and Viva

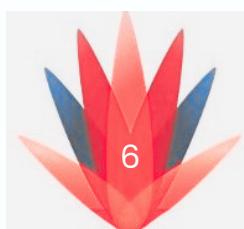
The elective program has a two fold purpose: 1) to aid the student in an expert career choice and 2) to offer an opportunity to build strengths in related fields. By the end of fourth year, students will be efficient enough in dealing with both pharmaceutical engineering and technology.



## SEMESTER VII PHARMACOGNOSY

## SEMESTER VIII PROJECT

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# 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.

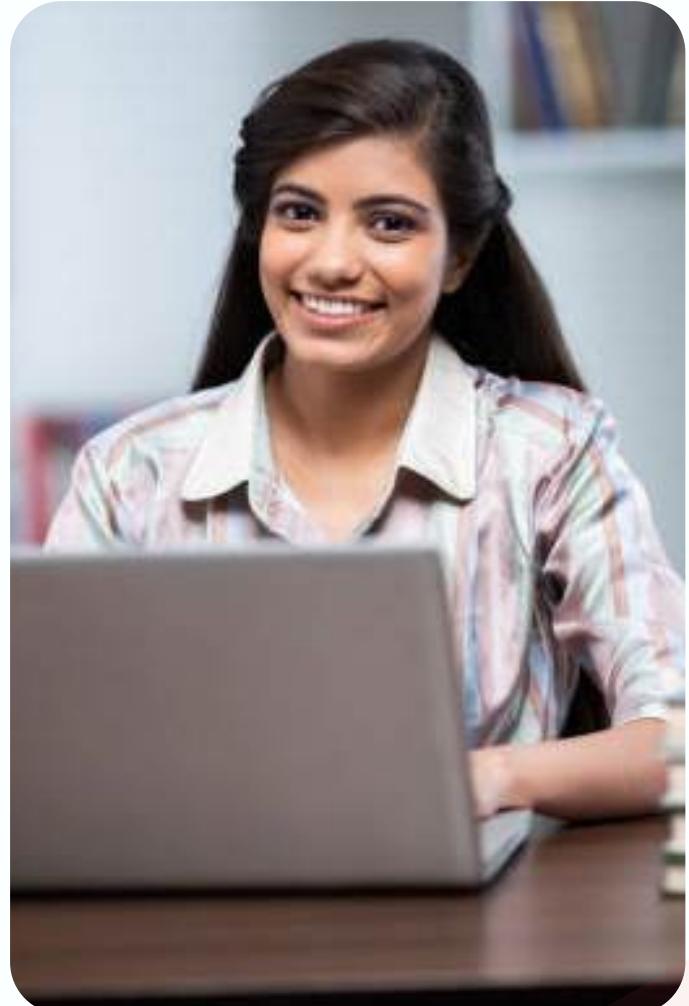
## FOR ADMISSION CONTACT

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

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

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

Medical Electronics  
Biomedical Instrumentation  
Clinical Engineering  
Genetics Engineering  
Bioengineering  
Chemical Engineering



## FIFTH YEAR SIX MONTHS INTERNSHIP

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**University of Dr.PSJ Kumar**

