



# UNIVERSITY OF DR.PSJ KUMAR



**B.S/B.TECH  
DATA SCIENCE AND ENGINEERING**

**CURRICULUM 2023-24**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

# ABOUT US

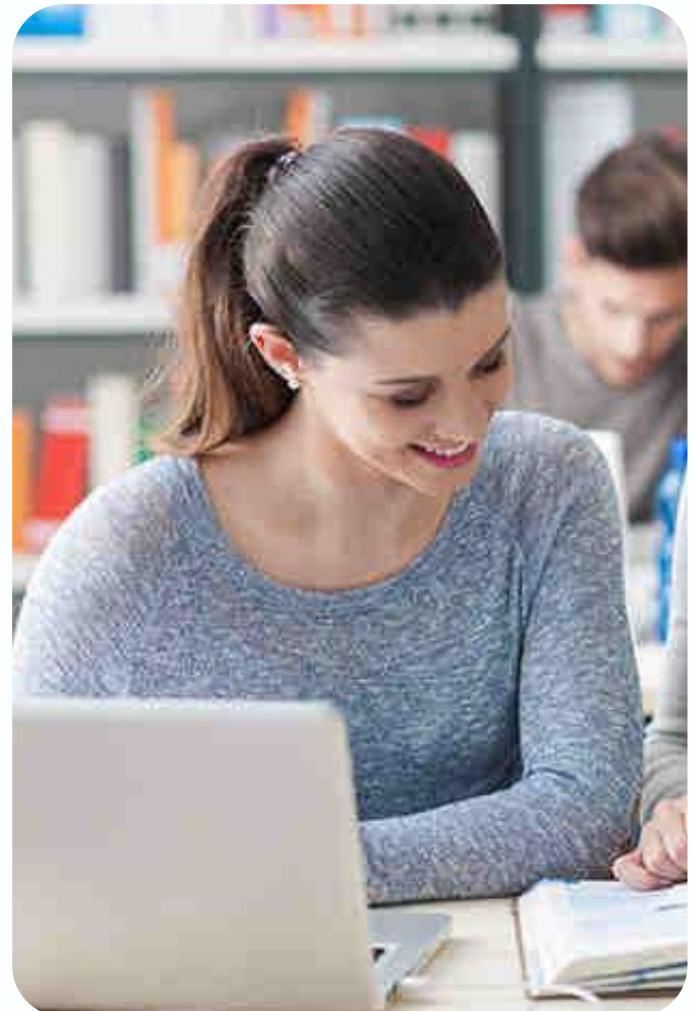
University of Dr.PSJ Kumar School of Science and Technology has various programs for diplomas, degrees, masters, and doctorates.

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 DATA SCIENCE AND ENGINEERING**

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



**FOUR YEARS  
REGULAR CURRICULUM**

**SIX MONTHS  
INTERNSHIP**

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# 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.  
Functional Programming in Python  
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 data handling and to receive an introduction to statistical data science.

## SEMESTER III

Mathematics for Computer Science  
Data Handling and Visualization  
Computing and Data Science  
Elective I  
Concepts in Artificial Intelligence  
Design and Analysis of Algorithms  
Design & Analysis of Algorithms Lab

## SEMESTER IV

R for Data Science  
Introduction to Machine Learning  
Signals and Systems  
Elective II  
Statistical Data Science  
Introduction to Java and OOPS  
Introduction to Java and OOPS Labs

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



## SEMESTER III DATA HANDLING

## SEMESTER IV MACHINE LEARNING



# THIRD YEAR

The third year offer the students an opportunity to develop a strong background in business analytics and to receive an introduction to advanced data analytics.

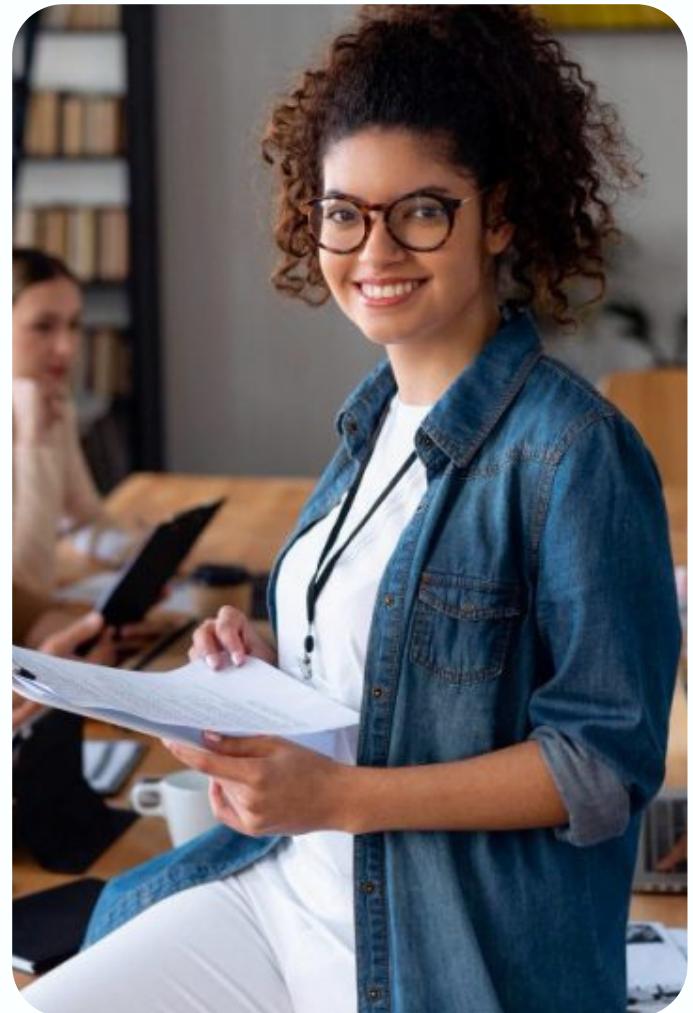
## SEMESTER V

Business Intelligence and Analytics  
Predictive Modeling and Analytics  
Elective III  
Database Management Systems  
Python for Data Science  
Data Wrangling  
Data Wrangling Lab

## SEMESTER VI

Data Warehousing and Data Mining  
Optimization for Data Science  
Elective IV  
Semantic Analysis  
Modern Software Engineering  
Advanced Data Analytics  
Advanced Data Analytics Lab

The course serves as a transition from data science to optimization of data analysis and to advance business analysis.



## SEMESTER V BUSINESS ANALYTICS

## SEMESTER VI DATA ANALYTICS



# FOURTH YEAR

The fourth year offer the students an opportunity to develop a strong background in big data analytics and to advance intelligent data science engineering.

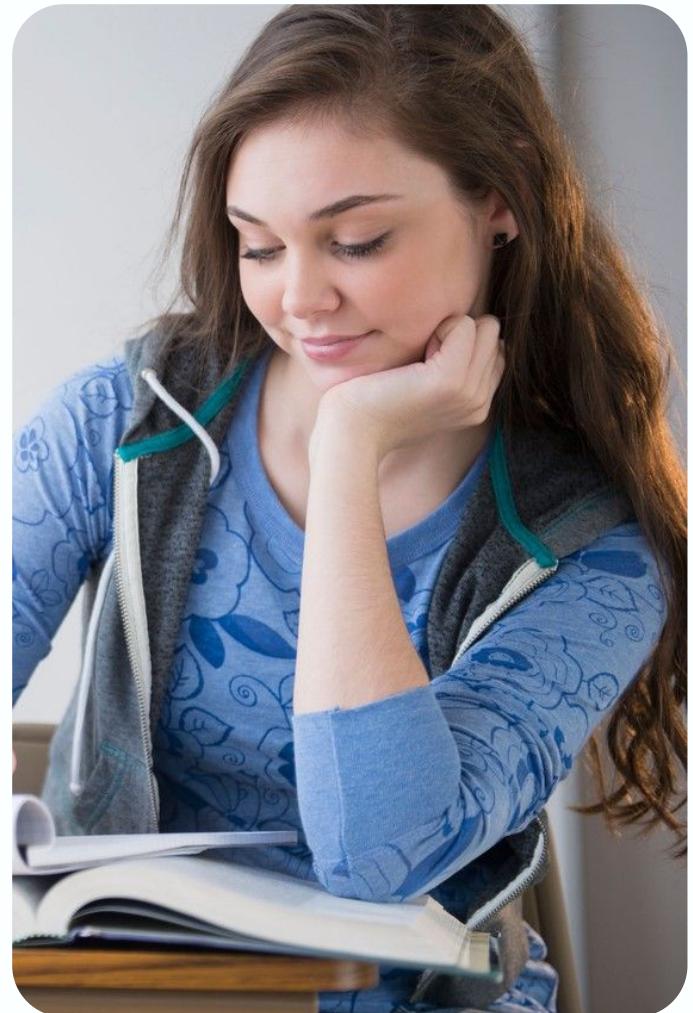
## SEMESTER VII

Big Data and Analytics  
Computational Neuroscience  
Deep Learning  
Elective V  
Elective VI  
Data Security and Privacy  
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 developing systems and software for both data analytics and business analytics.



## SEMESTER VII BIG DATA ANALYTICS

## 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 data science engineer.

## FOR ADMISSION CONTACT

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

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(+91)-9360-178-718**

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

Computer Science and Engineering  
Robotics and Automation  
Artificial Intelligence and ML  
Big Data and Cloud Computing  
Electrical and Computer Engineering  
Electronics & Communication Engg.



## FIFTH YEAR SIX MONTHS INTERNSHIP

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**University of Dr.PSJ Kumar**

