



# **UNIVERSITY OF DR.PSJKUMAR**



**B.S/B.TECH  
ARTIFICIAL INTELLIGENCE AND  
MACHINE LEARNING**

**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 - ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

The completion of the degree of bachelor of science/technology in artificial intelligence and machine learning is accomplished in four academic 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  
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





# SECOND YEAR

The second year offer the students an opportunity to develop a strong background in artificial intelligence and to receive an introduction to machine learning.

## SEMESTER III

Mathematics for Computer Science  
Computer System Architecture  
Data Structures and Algorithms  
Elective I  
Concepts in Artificial Intelligence  
Design and Analysis of Algorithms  
Design & Analysis of Algorithms Lab

## SEMESTER IV

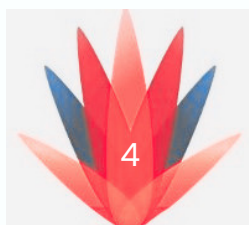
Modern Regression  
Introduction to Machine Learning  
Computer Vision  
Elective II  
Natural Language Processing  
Introduction to Java and OOPS  
Introduction to Java and OOPS Labs

The course serves as a transition from basic sciences to theoretical and experiential machine intelligence and machine learning.



## SEMESTER III ARTIFICIAL INTELLIGENCE

## SEMESTER IV MACHINE LEARNING



# THIRD YEAR

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

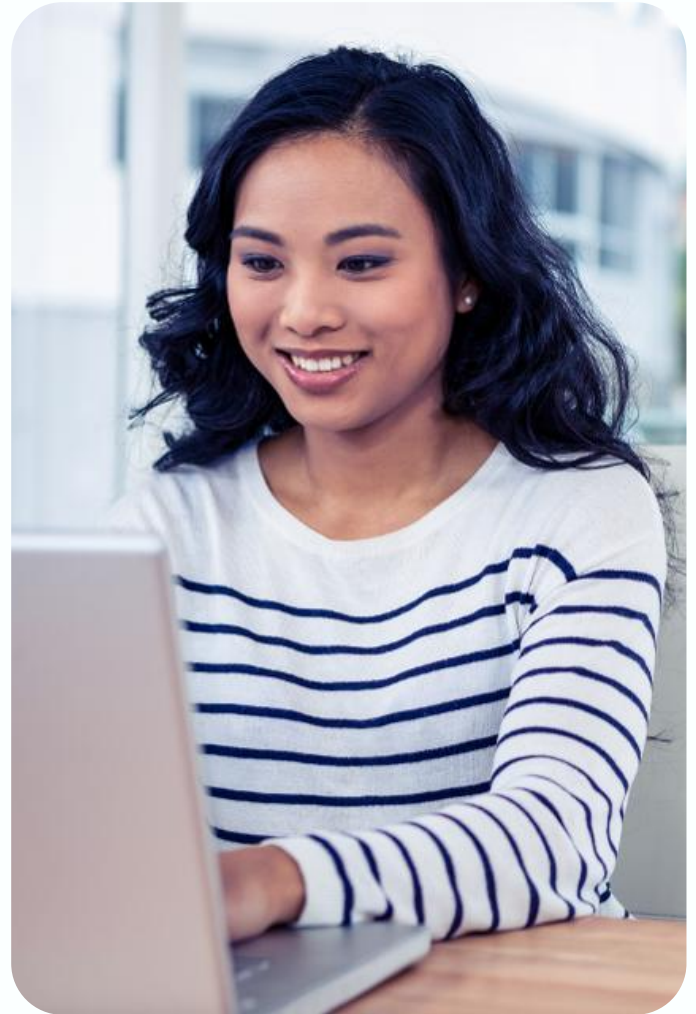
## SEMESTER V

Cognitive Psychology  
Speech Processing  
Elective III  
Machine Learning for Text Mining  
Introduction to Deep Learning  
Data Modeling and Analysis  
Data Modeling and Analysis Lab

## SEMESTER VI

Deep Reinforcement Learning  
Machine Learning for Structured Data  
Elective IV  
Neural Computation  
Visual Cognition  
Advanced Data Analytics  
Advanced Data Analytics Lab

The course serves as a transition from machine learning algorithms to deep learning algorithms and advanced data analytics.



## SEMESTER V DEEP LEARNING

## SEMESTER VI DATA ANALYTICS



# FOURTH YEAR

The fourth year offer the students an opportunity to develop a strong background in the design of AI products and to advance intelligent project management.

## SEMESTER VII

Human Robot Interaction  
Search Engines  
Vision Sensors  
Elective V  
Elective VI  
Design of AI Products  
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 and advancing both artificial intelligence and machine learning.



## SEMESTER VII DESIGN OF AI PRODUCTS

## 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 AI and ML 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;

Computer Science and Engineering  
Robotics and Automation  
Data Science and Engineering  
Big Data and Cloud Computing  
Electrical and Computer Engineering  
Electronics & Communication Engg.  
Information Technology



## FIFTH YEAR SIX MONTHS INTERNSHIP



**University of Dr.PSJKumar**

