



UNIVERSITY OF DR.PSJ KUMAR



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

CURRICULUM 2023-24

SCHOOL OF SCIENCE AND TECHNOLOGY

ABOUT US

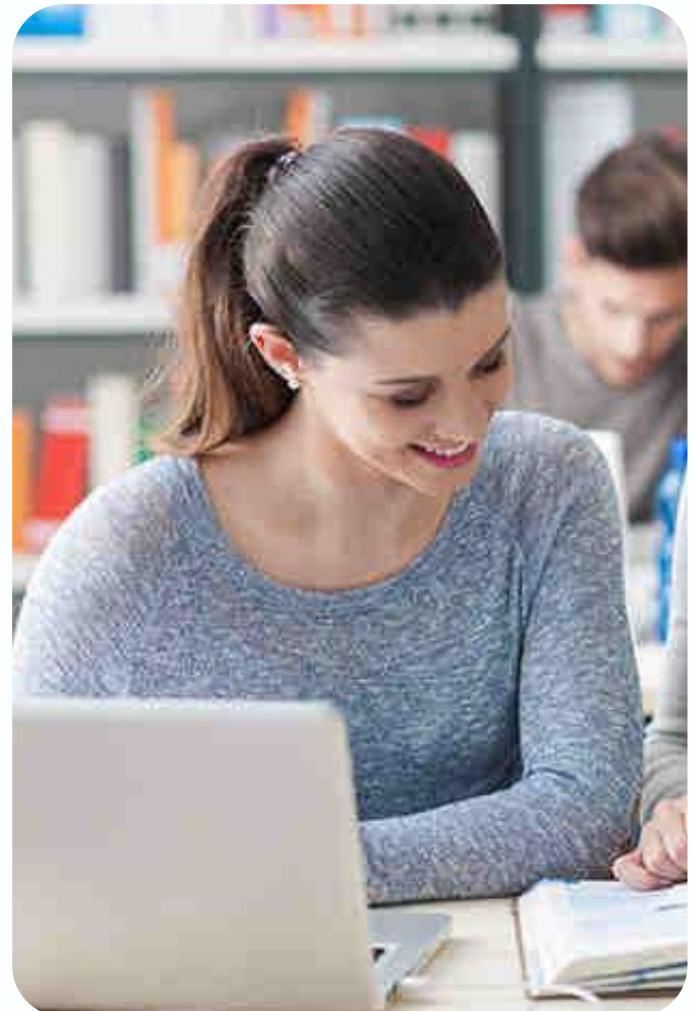
University of Dr.PSJ Kumar School of Science and Technology has various programs for diplomas, degrees, masters, and doctorates.

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 - 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**
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sed ncidun u.



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



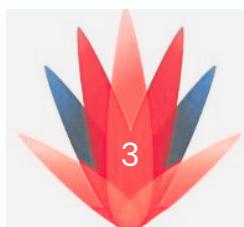
SEMESTER II

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 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

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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.

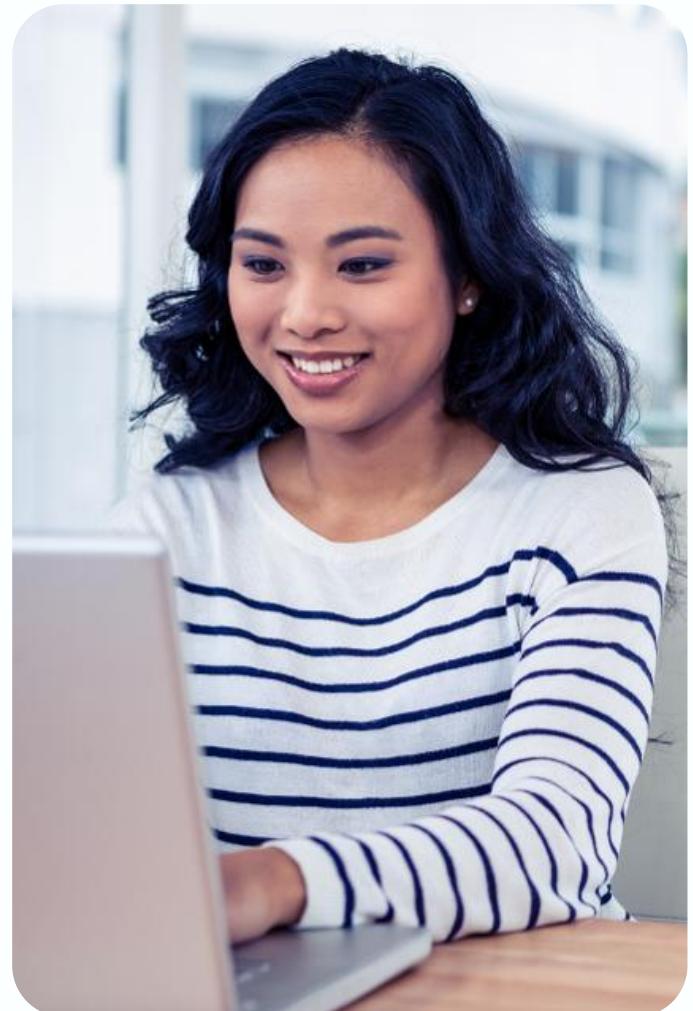
SEMESTER V

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

Deep learning
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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

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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 AI and ML engineer.

FOR ADMISSION CONTACT

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



FIFTH YEAR SIX MONTHS INTERNSHIP

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