



**UNIVERSITY OF  
DR.PSJKUMAR**



**M.S/M.TECH  
MEDICAL ROBOTICS**

**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, setting a new standard in education, creating a major hub for science and technology. The University has several departments scattered all throughout Florida, United States and Salem, Tamil Nadu, India.

The University is especially popular among International students. The University has franchises around the globe including Queensland, India, Canada, Malaysia, and London.

## **DEGREE OF MASTER OF SCIENCE/ TECHNOLOGY (MEDICAL ROBOTICS)**

The completion of the degree of master of science/technology in medical robotics (M.S/M.Tech in medical robotics) is accomplished in two academic years.



## **TWO YEARS REGULAR CURRICULUM**

## **COLLEGE OF ENGINEERING**

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**University of Dr.PSJKumar**

# FIRST YEAR

The two year curriculum is based on departmental teaching as well as departmental research. The first year offer the students an opportunity to develop a strong background in medical imaging and to receive an introduction to medical robotics. Every academic year consists of two semesters.

## SEMESTER I

Introduction to Medical Robotics  
Kinematics of Medical Robots  
Machine Learning in Medical Imaging  
Elective I  
Introduction to Surgical Robotics  
Artificial Intelligence for Surgery  
Medical Imaging Laboratory

## SEMESTER II

Medical Robotics and Devices  
Surgical Data Science  
Robot Vision and Navigation  
Elective II  
Robot Mechanics and Control  
Sensors for Medical Applications  
Medical Robotics Laboratory



## SEMESTER I MEDICAL IMAGING

## SEMESTER II MEDICAL ROBOTICS

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# SECOND YEAR

The second year offer the students an opportunity to develop a strong background in intelligent robotics and to receive an introduction to robotics in rehabilitation.

## SEMESTER III

Intelligent Medical Robotics  
Robotics in Rehabilitation  
Elective III  
Deep Learning for Medical Robotics  
Autonomous Robot Systems  
Robotics Research Lab

## SEMESTER IV

Dissertation and Viva

## DEPARTMENT OF ROBOTICS

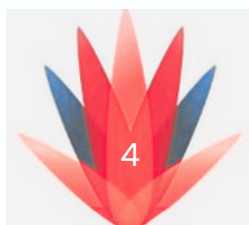
The department of robotics, college of engineering, school of science and technology, University of Dr.PSJKumar is among the top robotic schools in United States and India. Robotics is a branch of mechanical, electrical and computer science engineering.



## SEMESTER III INTELLIGENT ROBOTICS

## SEMESTER IV DISSERTATION

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# SCHOOL OF SCIENCE AND TECHNOLOGY

The faculty of applied science and engineering, the school of science and technology, the department of robotics, University of Dr.PSJKumar thrives a lot in achieving quality education and research.

## FOR ADMISSION CONTACT

**Dr.P.S.Jagadeesh Kumar**  
**Chancellor**  
**University of Dr.PSJKumar**  
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**Malaysia | India | London**

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

University of Dr.PSJKumar also  
offers M.S/M.Tech/Ph.D in;

Industrial Robotics  
Aerial Robotics  
Nano Robotics  
Mobile Robotics  
Soft Robotics  
Humanoid Robotics



## FACULTY OF APPLIED SCIENCE AND ENGINEERING

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**University of Dr.PSJKumar**

