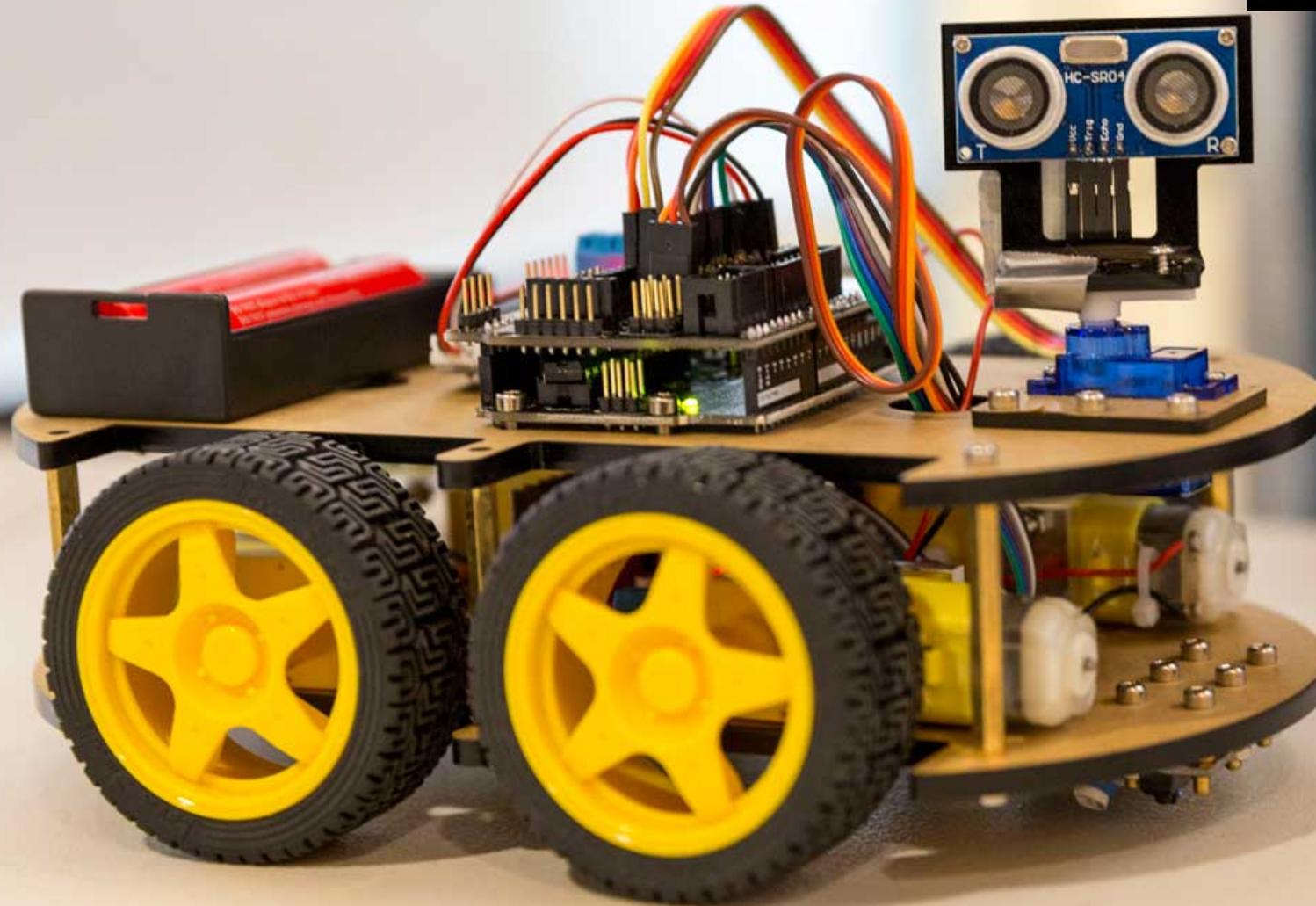


Minor MECHATRONICS

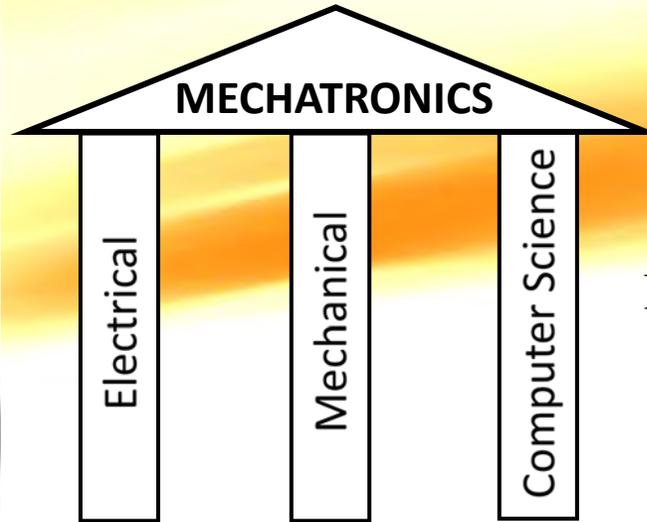
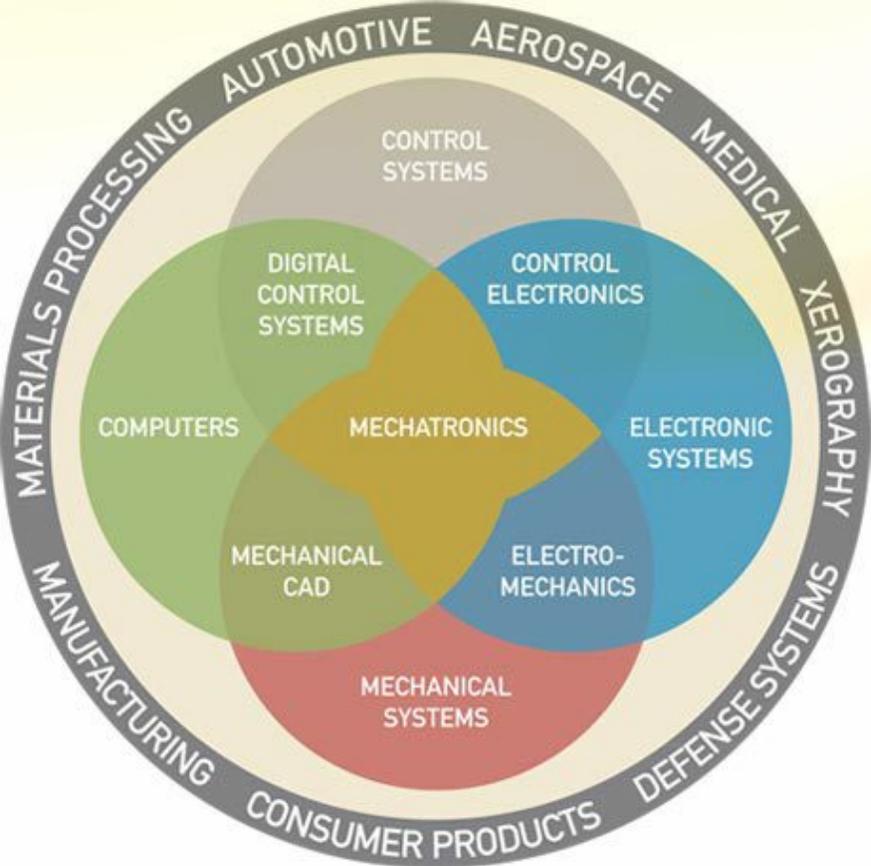


Department of
MECHANICAL
ENGINEERING



Starting	September 2020
Credits	20
Capacity	60 Students Only
Eligibility	Students of CE, ECE, EEE, CSE, CST

MECHATRONICS is an emerging field that blends mechanical engineering, electrical engineering, and computer science. The minor program gives you knowledge and skills in mechatronic control systems, industrial control principles, computer-integrated manufacturing, etc.

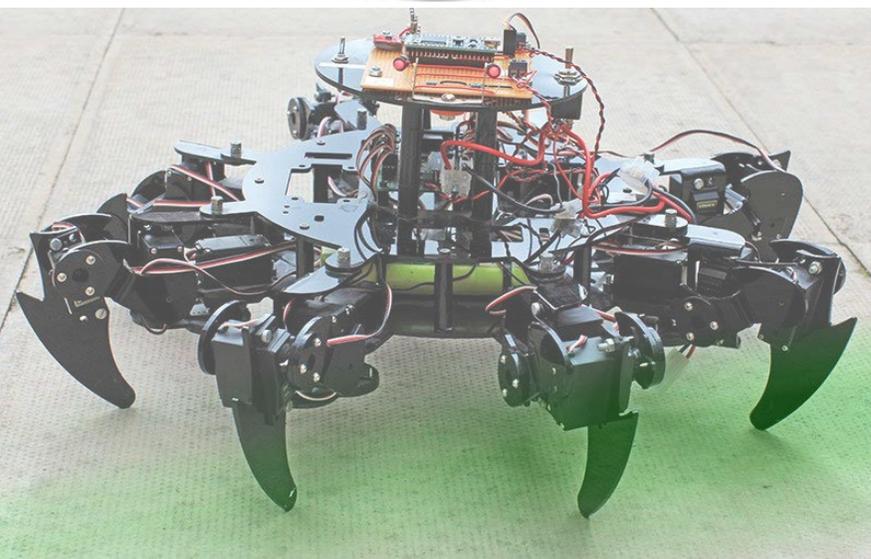


Each of the three areas is taught in Isolation.
MECHATRONICS Integrates them.

Why should you choose Mechatronics?

Here are the top reasons to choose Mechatronics.

- Multidisciplinary skills: When you are taking up mechatronics, you are combining a broad range of skills in mechanical engineering, electrical engineering, computer science, and control systems.
- High-impact jobs: Mechatronics is an emerging field that will be both high priority and high impact. Jobs in mechatronics are expected to grow rapidly in the next 10 years.
- Internships: You will have an opportunity to find an internship with the industrial, corporate, or government organization that best matches your goals for mechatronics engineering technology employment.
- Good paying jobs + High starting salaries: Professionals with mechatronics systems technology skills are highly valued by today's rapidly innovative companies, and salaries reflect that fact.
- A resume that stands out: Employers and hiring managers are looking for candidates who have both a broad engineering and technology base and the ability to apply that knowledge to solve real-world problems.



For Whom?

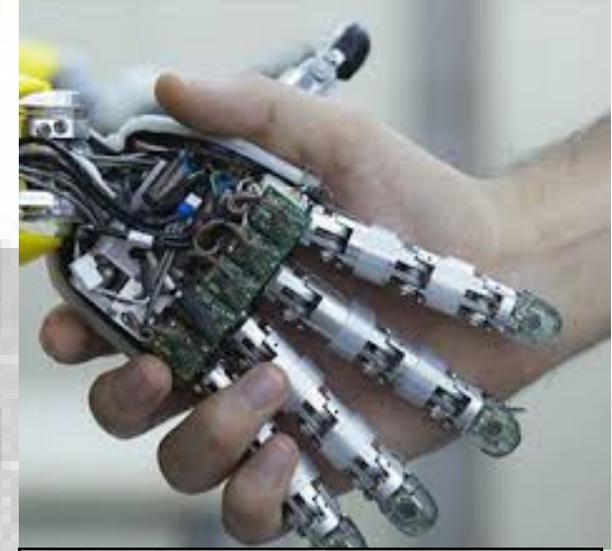
This Minor is offered to all the Engineering aspirants from Depts. of Civil Engineering, ECE, EEE, CSE & CST. The eligibility is based on the regulations as formulated by MITS. Zeal to learn is expected. Fundamental knowledge of Basic Electrical Engineering, Electronic devices and circuits, is expected.

What will I learn?

Mechatronics is a multidisciplinary field that combines electronics, computer science, mechanical, and control engineering. You will learn how things move and what motion and loads it can handle. You will learn how to determine the location of the points of a body in space. You will learn how to use air and oil as forces to use in motion.

Program Structure

S. No	Category	Course Code	Course Title	Credits
III Year – I Semester				
1	Professional Core Course	18MDME111	Engineering statics and Applied Mechanics	3
2	Professional Core Course	18MDME112	Fluid Power Systems	3
III Year – II Semester				
3	Professional Core Course	18MDME113	Industrial Automation	3
4	Professional Core Course	18MDME114	Mechatronics	3
5	Professional Core Course	18MDME203	Mechatronics Laboratory	2
IV Year – I Semester				
6	Professional Core Course	18MDME115	Robotics and Control	3
7	Project	18MDME107	Mini project	3
TOTAL				20



Contact details:

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(Minor Coordinator)

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Dept. of Mechanical Engg.,
Madanapalle Institute of
Technology & Science.



Department of Mechanical Engg. is
accredited by NBA – Tier I