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**ICT TOOLS USAGE IN TEACHING LEARNING PROCESS BY THE FACULTY OF E&TC DEPARTMENT.**

**USAGE OF GNOMIO MOODLE LEARNING MANAGEMENT SYSTEM**

## Amrutvahini College of Engineering, Sangamner
## Department of Electronics and Telecommunication Engineering
### Class: TE E&TC

### Vision:

To excel in modern trends of Electronics and Telecommunication Engineering through continuous teaching and learning process for nurturing promising engineers.

### Mission:

1. To excel as a state of art technological hub in the field of Electronics and Telecommunication Engineering.
2. To enrich the students by adopting professional skill sets according to modern technological development.
3. To develop society oriented value-based learning.

### Program Educational Objectives:

In Consultation with its Constituents, the Electronics & Telecommunication Department has set its Educational objectives as follows:

1. PEO1: To develop technically competent graduates with a strong background in basic sciences and mathematics with complex problem-solving abilities in their selected field.
2. PEO2: To prepare graduates having professional skills viz. ability to communicate, to work individually as well as in a multidisciplinary team, to manage the projects with lifelong learning.
3. PEO3: To develop graduates with a high degree of integrity and commitment to society ensuring ethical, moral behavior and environmental consciousness.

### Program Specific Outcomes (PSO's):

1. Apply principles, concepts, and knowledge of science and mathematics for solving Electronics and Telecommunication Engineering problems.
2. To identify, design, develop and analyze solutions for given specifications by applying the fundamentals of Electronics and Telecommunication engineering.
3. To develop graduates with the ability to use modern hardware and software tools in the electronics and telecommunication domain.

### Program Outcomes (PO):

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# Available courses

## C301- Digital Communication

**Course coordinator:** Mr. M. B. Kadu
**Contact (Email):** mahesh.kadu@avcoe.org

## C302- Digital Signal Processing

**Course coordinator:** Mr. S. S. Aher
**Contact (Email):** sachin.aher@avcoe.org

## C303 - Electromagnetics

**Course coordinator:** Dr. S. R. Jondhale
**Contact (Email):** satish.jondhale@avcoe.org

## C304 - Microcontroller

**Course coordinator:** Mr. P. R. Gunjal
**Contact (Email):** pramod.gunjal@avcoe.org

## C305- Mechatronics

**Course coordinator:** Mr. A. R. Tambe
**Contact (Email):** avinash.tambe@avcoe.org

## C306 - Electronic System Design

**Course coordinator:** Mr. M. B. Kadu
**Contact (Email):** mahesh.kadu@avcoe.org

You are not logged in. (Log in)

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Data retention summary

# C305- Mechatronics

⚙ ▾

Turn editing on

## Welcome!

Dear learners,

**Welcome to the course on Mechatronics!**

Mechatronics is a multidisciplinary field that combines several types of engineering—electrical, computer, and mechanical—and refers to the skill sets needed in the contemporary, advanced automated manufacturing industry. At the intersection of mechanics, electronics, and computing, mechatronics specialists create simpler, smarter systems. Mechatronics is an essential foundation for the expected growth in automation and manufacturing.

## About the course

**Name of the Program:** Electronics and Telecommunication Engineering
**Name of the course:** Mechatronics
**Class:** TE E&TC
**Name of the Instructor:** Mr. Avinash R. Tambe
**Contact (Email id):** avinash.tambe@avcoe.org
**Blog:** easy-learning-academy.blogspot.com

📄 Course Objectives and Outcomes (CO's) ☑
📄 Pre-requisites ☑
💬 What will happen if an error in closed loop control system remains zero? ☑

## Unit I: Introduction to Mechatronics

📄 Topics to be covered ☑
🌐 Topic 1: Introduction to Mechatronics ☑
💬 Learning outcome (LO) 1.1 ☑
🌐 Topic 2A: Key elements and domains of mechatronics systems ☑
🌐 Topic 2B: Evolution of mechatronics system ☑
💬 LO 1.2 ☑
🌐 Topic 3: Measurement characteristics ☑
📄 Numerical on Topic 3 ⬆

LO 1.3 ☑

Quiz 1.1 ☑

Feedback on quality of quiz ☑

Help us improve the quality of questions in quiz

Topic 4 Applications of Mechatronics system ☑

Topic 4A: Washing machine ☑

Topic 4B- Automatic Camera ☑

Topic 4C: CD player ☑

Topic 5: Mechatronics Design Process ☑

Topic 6: Mechanical components and servo-mechanism ☑

Topic 6A: Mechanical systems and its elements ☑

LO 1.4 ☑

Topic 7: Types of gears ☑

Topic 8: Gear trains ☑

Topic 8A: Simple Gear Train ☑

Topic 8B: Compounded Gear Train ☑

Topic 8C: Reverted Gear Train ☑

Quiz 1.2 ☑

## Unit II: Overview of Sensors, Transducers and their Characteristics Specification

Topics to be covered ☑

Topic 1: Sensors and Transducers - Overview ☑

Transducers, Sensors and Actuators ☑

Selection criteria and requirements of sensors or transducers ☑

Classification of sensors (or transducers) based on physical stimuli ☑

Classification of sensors (or transducers) based on applications ☑

LO 2.1 ☑

Force measurement ☑

Force measurement using load cell ☑

Force measurement using cantilever beam ☑

LO 2.2 ☑

IA-1(Strain gauge) ☑

Hidden from students

Pressure Measurement ☑

Pressure Measurement techniques ☑

Quiz 2.1 ☑

Restricted Not available unless:
- The activity **LO 2.1** is marked complete
- The activity **LO 2.2** is marked complete

Piezoelectric Pressure Sensor ☑

Piezoelectric pressure sensor- Construction, working, features, and applications ☑

📑 LO 2.3

📄 Proximity sensor ☑

📄 Proximity sensors- Construction, working, features, and applications ☑

📑 LO 2.4 ☑

📄 Linear motion measurement using LVDT ☑

📄 Rotary motion measurement using RVDT ☑

📄 Temperature measurement ☑

📄 Optical Fiber Temperature Sensor ☑

📑 LO 2.5 ☑

📄 (On and above) Gas sensors ☑

📑 LO 2.6 ☑

📄 Ultrasonic sensors ☑

## Unit III: Hydraulic systems

📄 Topics to be covered ☑

📄 What is Fluid System? ☑

📄 Key elements of a typical hydraulic system ☑

📄 (On and above) Fluid contamination- sources, processes and effects on system ☑

📄 Hydraulic filters (Note the important change in diagram) ☑

📄 Hydraulic Pumps-Introduction and types ☑

✅ Quiz 3.1 ☑

Restricted  Not available unless:
- The activity **What is Fluid System?** is marked complete
- The activity **Key elements of a typical hydraulic system** is marked complete
- The activity **(On and above) Fluid contamination- sources, processes and effects on system** is marked complete
- The activity **Hydraulic filters (Note the important change in diagram)** is marked complete
- The activity **Hydraulic Pumps-Introduction and types** is marked complete

📄 Gear pumps ☑

📄 Vane pumps ☑

📄 Hydraulic Pressure Relief Valve (PRV) ☑

📄 Accumulators for hydraulic system ☑

## Mock Insem Exam

✅ Unit 1 ☑

✅ Unit 2 ☑

✅ Unit 3 ☑

## Unit Test

✅ Unit 1 ☑

✅ Unit 2 ☑

## SPPU-Insem Examination Question Papers

📄 TE E&TC (2015 Pattern) - Mechatronics Question Paper Insem August 2017

　　TE E&TC (2015 Pattern) - Mechatronics Question Paper Insem August 2018 ☑

　　TE E&TC (2015 Pattern) - Mechatronics Question Paper Insem August 2019 ☑

## Unit IV: Pneumatic Systems

　　Topics to be covered ☑

　　Key components of pneumatic system ☑

　　Comparison of hydraulic and pneumatic system ☑

## Unit V: Electrical Actuators, Electro-Mechanical Actuators

　　Topics to be covered ☑

## Unit VI: Mechatronics Systems in Automobile

　　Topics to be covered ☑

　　Assignment 5 ☑

## Mock Endsem Examination

　　Prelim Unit 1 ☑

　　Prelim Unit 2 ☑

　　Prelim Unit 3 ☑

　　Prelim Unit 4 ☑

　　Prelim Unit 5 ☑

　　Prelim Unit 6 ☑

## SPPU-Endsem Examination Question Papers

　　TE E&TC (2015 Pattern) - Mechatronics Question Paper Endsem Nov 2017 ☑

　　TE E&TC (2015 Pattern) - Mechatronics Question Paper Endsem Nov 2018 ☑

　　TE E&TC (2015 Pattern) - Mechatronics Question Paper Endsem May 2018 ☑

　　TE E&TC (2015 Pattern) - Mechatronics Question Paper Endsem May 2019 ☑

## Mechatronics Lab

　　Flow rate measurement demonstration ☑

> Hidden from students

Subscribe, like, and press the bell icon my channel to receive the latest updates on the next video. Do share the video with your other friends if you like the video.

　　Flow rate measurement experiment queries ☑

> Hidden from students

Post queries or questions (if any) on the flow rate measurement experiment

　　Learning Outcomes for Experiment 1 ☑

> Hidden from students

Post your conclusions of the above experiment. Conclusions should be technical. Avoid copying conclusions from others (follow academic ethics)

The conclusion should:

1. Clearly indicate how DPT can be used for weight measurement.
2. Out of DPT and rotameter which is more precise.
3. How flow rate is changed of the system?

Liquid level measurement demonstration

Hidden from students

Liquid level measurement experiment queries

Hidden from students

Post queries or questions (if any) on the liquid level measurement experiment

Learning outcomes of experiment 2

Hidden from students

Post your conclusions of the above experiment. Conclusions should be technical. Avoid copying conclusions from others (follow academic ethics)

The conclusion should clearly indicate:

1. How level is calculated using the capacitive transducer?
2. Relationship between capacitance and water level.

What is a load cell?

Hidden from students

Weight measurement using load cell

Hidden from students

Weight measurement using load cell queries

Hidden from students

Learning outcomes of experiment 3

Hidden from students

Post your conclusions of the above experiment. Conclusions should be technical. Avoid copying conclusions from others (follow academic ethics)

The conclusion should clearly indicate:

1. How weight is measured using a load cell?
2. Relationship between voltage and weight being measured.

Course Exit Project

Exp 1

Exp 2

Exp 3

Exp 4

Exp 5

Exp 6

Exp 7

Exp 8

Exp 10

ⓘ Moodle Docs for this page

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Home

Data retention summary

# C301- Digital Communication

## Assignment 1

Describe the working of each block of Pulse Code Modulation with the help of neat block diagram

## Grading summary

| | |
|---|---|
| **Hidden from students** | No |
| **Participants** | 72 |
| **Submitted** | 54 |
| **Needs grading** | 5 |
| **Due date** | Saturday, 15 August 2020, 5:30 AM |
| **Time remaining** | Assignment is due |

View all submissions    Grade

◄ Topics to be covered

Jump to...

ⓘ Moodle Docs for this page

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DC

Data retention summary

# C305- Mechatronics

## Prelim Unit 1

Attempts allowed: 1

This quiz opened on Wednesday, 30 December 2020, 11:00 AM

Time limit: 1 hour 30 mins

**Attempts: 68**

Attempt quiz now

Jump to...

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Mech

Data retention summary

# C305- Mechatronics

[Dashboard](#) / [Courses](#) / [Mech](#) / [Mock Endsem Examination](#) / [Prelim Unit 1](#) / [Results](#) / [Grades](#)

## Prelim Unit 1

Attempts: 68

[Collapse all](#)

## What to include in the report

Attempts from

| enrolled users who have attempted the quiz |

Attempts that are
☑ In progress   ☑ Overdue   ☑ Finished   ☑ Never submitted

Show only attempts

☐ that have been regraded / are marked as needing regrading

## Display options

Page size

| 60 |

Marks for each question

| No |

[ Show report ]

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[ Regrade all ]   [ Dry run a full regrade ]

Only one attempt per user allowed on this quiz.

[Reset table preferences](#)

First name   | All | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Surname      | All | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1   [2](#)   [»](#)

Download table data as   | Comma separated values (.csv) |   [ Download ]

| ☐ | **First name /** **Surname** | **Email address** | **State** | **Started** **on** | **Completed** | **Time** **taken** | **Grade/6.00** |
|---|---|---|---|---|---|---|---|

| | | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|---|
| ☐ | | Pankaj Ghodake Review attempt | pankajghodake52@gmail.com | Finished | 30 December 2020 11:00 AM | 30 December 2020 11:03 AM | 3 mins 26 secs | 5.00 |
| ☐ | | 09- Shalini Dalvi Review attempt | Shalinidalavi123@gmail.com | Finished | 30 December 2020 11:00 AM | 30 December 2020 11:15 AM | 15 mins 33 secs | 6.00 |
| ☐ | | 34 Mahesh Ilhe Review attempt | maheshilhe67@gmail.com | Finished | 30 December 2020 11:00 AM | 30 December 2020 11:03 AM | 3 mins 13 secs | 6.00 |
| ☐ | | 66 Pratiksha Thorat Review attempt | pratiksha9561@gmail.com | Finished | 30 December 2020 11:00 AM | 30 December 2020 11:09 AM | 8 mins 34 secs | 6.00 |
| ☐ | | Nutan Mandlik Review attempt | nutan04mandlik@gmail.com | Finished | 30 December 2020 11:00 AM | 30 December 2020 11:07 AM | 6 mins 39 secs | 6.00 |
| ☐ | | 28 Pooja Gorde Review attempt | poojagorde2610@gmail.com | Finished | 30 December 2020 11:01 AM | 30 December 2020 11:07 AM | 6 mins 25 secs | 6.00 |
| ☐ | | Poorva Patil Review attempt | poorvapatil353@gmail.com | Finished | 30 December 2020 11:01 AM | 30 December 2020 11:09 AM | 8 mins | 6.00 |
| ☐ | | Swati Sonawane Review attempt | tswatisonawane@gmail.com | Finished | 30 December 2020 11:01 AM | 30 December 2020 11:09 AM | 8 mins 13 secs | 6.00 |
| ☐ | | Yogita Shinde Review attempt | shindeyogita913@gmail.com | Finished | 30 December 2020 11:01 AM | 30 December 2020 11:16 AM | 15 mins 5 secs | 6.00 |
| ☐ | | Shubham Kasar Review attempt | shubhamkasar2895@gmail.com | Finished | 30 December 2020 11:01 AM | 30 December 2020 11:10 AM | 8 mins 35 secs | 6.00 |
| ☐ | | 19-Vaibhav Gade Review attempt | vaibhavgade8788@gmail.com | Finished | 30 December 2020 11:01 AM | 30 December 2020 11:09 AM | 7 mins 50 secs | 5.00 |
| ☐ | | 39-Shruti Karpe Review attempt | shrutikarpe158@gmail.com | Finished | 30 December 2020 11:02 AM | 30 December 2020 11:08 AM | 5 mins 30 secs | 6.00 |

| | | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|---|
| ☐ | | 35-Priti Jondhale Review attempt | pritijondhale14@gmail.com | Finished | 30 December 2020 11:02 AM | 30 December 2020 11:08 AM | 5 mins 16 secs | 6.00 |
| ☐ | | Amit Khandagale Review attempt | amitkhandagale2000@gmail.com | Finished | 30 December 2020 11:02 AM | 30 December 2020 11:14 AM | 11 mins 45 secs | 6.00 |
| ☐ | | Kiran Pansare Review attempt | kiranpansared086475@gmail.com | Finished | 30 December 2020 11:03 AM | 30 December 2020 11:08 AM | 5 mins 25 secs | 6.00 |
| ☐ | | Snehal Dhamane Review attempt | dhamanesnehal1011@gmail.com | Finished | 30 December 2020 11:03 AM | 30 December 2020 11:10 AM | 6 mins 39 secs | 5.50 |
| ☐ | | Sharayu Dol Review attempt | sharayudol18@gmail.com | Finished | 30 December 2020 11:03 AM | 30 December 2020 11:09 AM | 6 mins | 6.00 |
| ☐ | | Vivek Hadole Review attempt | vivekhadole02@gmail.com | Finished | 30 December 2020 11:03 AM | 30 December 2020 11:08 AM | 4 mins 36 secs | 6.00 |
| ☐ | | 61- shivani Satpute Review attempt | Shivanisatpute775@gmail.com | Finished | 30 December 2020 11:04 AM | 30 December 2020 11:08 AM | 4 mins 12 secs | 6.00 |
| ☐ | | Shubham Pawar Review attempt | shubhampawar83478@gmail.com | Finished | 30 December 2020 11:04 AM | 30 December 2020 11:09 AM | 5 mins 48 secs | 6.00 |
| ☐ | | 52-PRATIK PANMAND Review attempt | panmandpratik44@gmail.com | Finished | 30 December 2020 11:04 AM | 30 December 2020 11:05 AM | 46 secs | 6.00 |
| ☐ | | Akanksha Khatode Review attempt | akankshakhatode1602@gmail.com | Finished | 30 December 2020 11:04 AM | 30 December 2020 11:10 AM | 5 mins 14 secs | 6.00 |
| ☐ | | Vaishnavi Gaikwad Review attempt | gaikwadvaishnavi20@gmail.com | Finished | 30 December 2020 11:04 AM | 30 December 2020 11:08 AM | 3 mins 55 secs | 5.00 |
| ☐ | | 58 Vishakha Pawar Review attempt | visakha9767@gmail.com | Finished | 30 December 2020 11:05 AM | 30 December 2020 11:10 AM | 5 mins 28 secs | 6.00 |

| | | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|---|

| | | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|---|
| ☐ | | **Annasaheb Landge** Review attempt | landgeannasaheb8888@gmail.com | Finished | 30 December 2020 11:05 AM | 30 December 2020 11:08 AM | 2 mins 47 secs | **6.00** |
| ☐ | | **Rutuja Havare** Review attempt | rutujahavare123@gmail.com | Finished | 30 December 2020 11:05 AM | 30 December 2020 11:11 AM | 5 mins 21 secs | **6.00** |
| ☐ | | **60 Revadkar Pranjali** Review attempt | pranjali.revadkar19@gmail.com | Finished | 30 December 2020 11:06 AM | 30 December 2020 11:08 AM | 2 mins 26 secs | **6.00** |
| ☐ | | **31 Supriya Handal** Review attempt | supriyahandal1406@Gmail.com | Finished | 30 December 2020 11:06 AM | 30 December 2020 11:08 AM | 2 mins 6 secs | **6.00** |
| ☐ | | **Priti Ghadge** Review attempt | ghadgepriti2001@gmail.com | Finished | 30 December 2020 11:06 AM | 30 December 2020 11:14 AM | 8 mins 29 secs | **6.00** |
| ☐ | | **Pradip Kolhe** Review attempt | pradipkolhe232@gmail.com | Finished | 30 December 2020 11:06 AM | 30 December 2020 11:08 AM | 2 mins 18 secs | **6.00** |
| ☐ | | **59-pratiksha raut** Review attempt | pratiksharaut363@gmail.com | Finished | 30 December 2020 11:06 AM | 30 December 2020 11:09 AM | 2 mins 47 secs | **6.00** |
| ☐ | | **36 Joshi Bhagyashri** Review attempt | joshi.bhagyashri1716@gmail.com | Finished | 30 December 2020 11:07 AM | 30 December 2020 11:09 AM | 2 mins 38 secs | **6.00** |
| ☐ | | **Shubham Magar** Review attempt | magar.bobby281@gmail.com | Finished | 30 December 2020 11:07 AM | 30 December 2020 11:08 AM | 1 min 30 secs | **6.00** |
| ☐ | | **Divya Barke** Review attempt | divyabarke@gmail.com | Finished | 30 December 2020 11:07 AM | 30 December 2020 11:13 AM | 5 mins 51 secs | **6.00** |
| ☐ | | **Girish Mhase** Review attempt | girishmhase201@gmail.com | Finished | 30 December 2020 11:07 AM | 30 December 2020 11:14 AM | 6 mins 47 secs | **6.00** |
| ☐ | | **Harshada Gorde** Review attempt | harshadagorde7@gmail.com | Finished | 30 December 2020 11:08 AM | 30 December 2020 11:12 AM | 4 mins 26 secs | **6.00** |

| | | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|---|
| ☐ | | **2137 Avinash Kadlag** Review attempt | avinashkadlag31@gmail.com | Finished | 30 December 2020 11:08 AM | 30 December 2020 11:09 AM | 1 min 10 secs | **6.00** |
| ☐ | | **Aniket hase** Review attempt | anikethase0700@gmail.com | Finished | 30 December 2020 11:08 AM | 30 December 2020 11:11 AM | 2 mins 31 secs | **6.00** |
| ☐ | | **Nikhil Dighe** Review attempt | nikhilmdighe137@gmail.com | Finished | 30 December 2020 11:08 AM | 30 December 2020 11:10 AM | 1 min 25 secs | **6.00** |
| ☐ | | **6 Bhomale** Review attempt | akankshabhomale@gmail.com | Finished | 30 December 2020 11:09 AM | 30 December 2020 11:10 AM | 1 min 43 secs | **6.00** |
| ☐ | | **Kishori Bhalerao** Review attempt | bhaleraokishori8@gmail.com | Finished | 30 December 2020 11:09 AM | 30 December 2020 11:12 AM | 3 mins 13 secs | **6.00** |
| ☐ | | **Shivam Malwade** Review attempt | shivammalwade12@gmail.com | Finished | 30 December 2020 11:09 AM | 30 December 2020 11:11 AM | 1 min 55 secs | **6.00** |
| ☐ | | **Ganesh Bhadakwan** Review attempt | ganeshbhadakwan10@gmail.com | Finished | 30 December 2020 11:09 AM | 30 December 2020 11:11 AM | 2 mins 20 secs | **5.50** |
| ☐ | | **13 mayuri Dighe** Review attempt | mayuridighe123@gmail.com | Finished | 30 December 2020 11:10 AM | 30 December 2020 11:12 AM | 2 mins 6 secs | **6.00** |
| ☐ | | **10 Aniket Dangat** Review attempt | ani.dangat@gmail.com | Finished | 30 December 2020 11:16 AM | 30 December 2020 11:19 AM | 2 mins 44 secs | **6.00** |
| ☐ | | **38 Priyanka Kangane** Review attempt | Kanganepriyanka99@gmail.com | Finished | 30 December 2020 11:17 AM | 30 December 2020 11:21 AM | 4 mins | **6.00** |
| ☐ | | **Dipak Wadage** Review attempt | dipakwadage102@gmail.com | Finished | 30 December 2020 11:17 AM | 30 December 2020 11:19 AM | 1 min 17 secs | **4.50** |
| ☐ | | **57- Pawar Sushant** Review attempt | 11sushant12sp.z@gmail.com | Finished | 30 December 2020 11:19 AM | 30 December 2020 11:22 AM | 3 mins 1 sec | **6.00** |

| | | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|---|

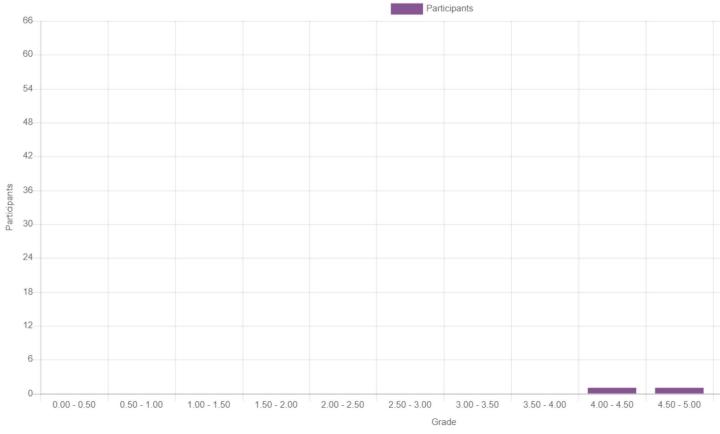| ☐ | First name / Surname | Email address | State | Started on | Completed | Time taken | Grade/6.00 |
|---|---|---|---|---|---|---|---|
| ☐ | **20 Shraddha Gaikwad** Review attempt | gaikwad4578@gmail.com | Finished | 30 December 2020 11:20 AM | 30 December 2020 11:23 AM | 2 mins 44 secs | **6.00** |
| ☐ | **Girish Patil** Review attempt | girishpatil1445@gmail.com | Finished | 30 December 2020 11:21 AM | 30 December 2020 11:22 AM | 1 min 19 secs | **6.00** |
| ☐ | **Abhishek Dhekane** Review attempt | abhishekdhekane78587858@gmail.com | Finished | 30 December 2020 11:21 AM | 30 December 2020 11:23 AM | 1 min 54 secs | **6.00** |
| ☐ | **17 Kalyani Erande** Review attempt | erandekalyani@gmail.com | Finished | 30 December 2020 11:24 AM | 30 December 2020 11:26 AM | 1 min 28 secs | **6.00** |
| ☐ | **Ravikiran Bhanage** Review attempt | ravikiranbhanage385@gmail.com | Finished | 30 December 2020 11:25 AM | 30 December 2020 11:30 AM | 5 mins 6 secs | **6.00** |
| ☐ | **27 - Pravin Gunjal** Review attempt | Pravingunjal27122000@gmail.com | Finished | 30 December 2020 11:26 AM | 30 December 2020 11:28 AM | 2 mins 7 secs | **6.00** |
| ☐ | **24-Pankaj Ghumare** Review attempt | ghumarepankaj11@gmail.com | Finished | 30 December 2020 11:26 AM | 30 December 2020 11:28 AM | 1 min 59 secs | **6.00** |
| ☐ | **01-Nilesh Aher** Review attempt | ahernilesh37@gmail.com | Finished | 30 December 2020 11:26 AM | 30 December 2020 11:28 AM | 1 min 38 secs | **6.00** |
| ☐ | **67- Gauri Vadak** Review attempt | gaurivadak500@gmail.com | Finished | 30 December 2020 11:26 AM | 30 December 2020 11:28 AM | 2 mins 19 secs | **5.50** |
| ☐ | **26-Yogesh Gorde** Review attempt | gordeyoges2000@gmail.com | Finished | 30 December 2020 11:32 AM | 30 December 2020 11:35 AM | 3 mins 6 secs | **6.00** |
| ☐ | **Ajit Shewale** Review attempt | ajitshewale3@gmail.com | Finished | 30 December 2020 11:35 AM | 30 December 2020 11:37 AM | 1 min 54 secs | **6.00** |
| ☐ | **Dnyaneshwari Dolas** Review attempt | dnyaneshwari9112000@gmail.com | Finished | 30 December 2020 11:35 AM | 30 December 2020 11:37 AM | 1 min 38 secs | **5.50** |
| | **Overall average** | | | | | | **5.84 (68)** |

| Regrade selected attempts | Delete selected attempts |
|---|---|

## Overall number of students achieving grade ranges



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# C305- Mechatronics

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## Learning outcome (LO) 1.1

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**Learning outcome for lecture 1**
Thursday, 2 July 2020, 8:09 PM

What did you learn today?? Can you list any **other definition of mechatronics system** other than discussed in Topic 1 **along with the source of definition** (Maybe a book, a website or a reference paper)

Permalink     Edit     Reply

**Re: Learning outcome for lecture 1**
by 57- Pawar Sushant - Friday, 3 July 2020, 10:27 AM

Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components. As a design philosophy, mechatronics values an interdisciplinary, systems thinking approach to problem solving.

Margaret Rouse WhatIs.com

**Tags:** by Sushant pawar

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**Re: Learning outcome for lecture 1**
by Vaishnavi Gaikwad - Friday, 3 July 2020, 10:28 AM

I had learned  the topic 'Introduction to mechatronics' today.

In that topic there was 3 basic definition of the mechatronics of different publications

Ideally mechatronics means combination of electronics , electrical, mechanical and computer control engineering

      _ from Google

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**Re: Learning outcome for lecture 1**

by [Pradip Kolhe](#) - Friday, 3 July 2020, 10:43 AM

Today we learn a concept 'Mechatronics' with its definitiona.

Another one definition of mechatronics  Mechatronics is a [multidisciplinary](#) branch of engineering that focuses on the engineering of both [electrical](#) and [mechanical systems](#), and also includes a combination of [robotics](#), [electronics](#), [computer](#), [telecommunications](#), [systems](#), [control](#), and [product](#) engineering in order to design a intelligent products or system.

Source: Wikipedia

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### Re: Learning outcome for lecture 1
by [28 Pooja Gorde](#) - Friday, 3 July 2020, 11:09 AM

We have the learn the meaning of mechatronics and it's definitions.

We can also define mechatronics as the technology combining electrical and mechanical engineering.

Mechatronics is the multidisciplinary branch of engineering that focused on the engineering of both electrical and mechanical systems,,and aslo includes a combination of robotics,telecommunication ,system, control,and product engineering.

Ref:wikipedia

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### Re: Learning outcome for lecture 1
by [39-Shruti Karpe](#) - Friday, 3 July 2020, 11:27 AM

Today I have learned the concept of mechatronics.  And learned 3 different definitions in mechatronics in different publications.
Mechatronics : Mechatronics can be defined as the application of electronics and computer technology to control the motion of mechanical system.and to design improved products.

**Tags:**  karpe Shruti

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---

### Re: Learning outcome for lecture 1
by [46Pratiksha yadav Malunjkar](#) - Friday, 3 July 2020, 1:20 PM

  Today I have learned about introduction of Mechatronis,What is mechatronics,what are the application of mechatronics,their examples, various types of definitions etc..And what are uses of mchatronics in our life..

Mechatronics is an interdisciplinary area of engineering that combines mechanical and electrical engineering and computer science. A typical mechatronic system picks up signals from the environment, processes them to generate output signals, transforming them for example into forces, motions and actions.a

Examples of mechatronic systems are robots, digitally controlled combustion engines, machine tools with self-adaptive tools, contact-free magnetic bearings, automated guided vehicles, etc.

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### Re: Learning outcome for lecture 1
by [11-Prachi Deshmukh](#) - Friday, 3 July 2020, 2:14 PM

Today I had learned, the introduction , basic definitions & the example of mechatronics.

  Mechatronics is a multidisciplinary field of engineering.

Mechatronics system is combination of mechanical, electrical telecommunications, control and computer science technologies.

-google(igi-global.com)

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### Re: Learning outcome for lecture 1
by [60 Revadkar Pranjali](#) - Friday, 3 July 2020, 4:07 PM

From today's lecture we have learned the topic mechatronics and it's definition's.

The incorporation of electronics into mechanisms.

Also it is define as the synergistic combination of mechanical engineering, electronic engineering, and software engineering.

By - Google    ( www.quora.com)

**Tags:** pranjali revadkar

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**Re: Learning outcome for lecture 1**
by Harshada Gorde - Friday, 3 July 2020, 6:50 PM

Today ,I had learned about the mechatronics and its defination .

Mechatronics is a multidisciplinary branch of engineering that focuses on the engineering of  both the electrical and mechanical systems and also include a combination of robotics,electronics, computer,telecommunication systeme.

It used in manufacturing , health care and tools that make our lives easy.

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**Re: Learning outcome for lecture 1**
by 38 Priyanka Kangane - Friday, 3 July 2020, 7:04 PM

Today I had learned, the introduction , basic definitions & the example of mechatronics.

Mechatronics is a broad engineering field that is based on evaluating mechanical and electrical engineering systems, and working with mechanical and electrical systems. Mechatronics blends mechanical skills and tasks with electronic design. It is sometimes seen as a field similar to robotics.

By - Google    ( www.quora.com)

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**Re: Learning outcome for lecture 1**
by 59-pratiksha raut - Friday, 3 July 2020, 7:20 PM

Today I have learned the meaning of mechatronics and it's three definitions.

Mechatronics,which is also called mechatronics engineering,is a multidisciplinary branch of engineering that focouses on the engineering of both electrical and mechanical systems,and also includes a combination of robotics, electronics, computer, telecommunication,systems, control,and product engineering.

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**Re: Learning outcome for lecture 1**
by 61- shivani Satpute - Friday, 3 July 2020, 7:36 PM

We have learned about introduction to Mechatronics, it's definitions, applications.

Mechatronics is a Branch of engineering that focuses onDesigning, manufacturing and maintaining products that have both mechanical and electronic components.    -by margaret rouse

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**Re: Learning outcome for lecture 1**
by 61- shivani Satpute - Friday, 3 July 2020, 7:36 PM

We have learned about introduction to Mechatronics, it's definitions, applications.

Mechatronics is a Branch of engineering that focuses onDesigning, manufacturing and maintaining products that have both mechanical and electronic components.    -by margaret rouse

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**Re: Learning outcome for lecture 1**
by 10 Aniket Dangat - Friday, 3 July 2020, 8:45 PM

Today,  i learned  the definition of Mechatronics with example.  (Three definitions were given. )

**Mechatronics, which is also called mechatronic engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.**(Source:
Wikipedia:  https://en.m.wikipedia.org/wiki/Mechatronics#:~:text=Mechatronics%2C%20which%20is%20also%20called,%2C%20control%2C%20and%9
)

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**Re: Learning outcome for lecture 1**
by Shivam Malwade - Friday, 3 July 2020, 9:23 PM

Today, i learned  the definition of Mechatronics with examples in daily life.

Mechatronics is the branch of engineering that focuses on designing and manufacturing and maintaining products that have both mechanical and electronic components.

from -WhatIs.com

|  |  |  |  |  |
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**Re: Learning outcome for lecture 1**
by 24-Pankaj Ghumare - Friday, 3 July 2020, 9:32 PM

Today we had learned, the introduction , basic definitions & the example of mechatronics.

Mechatronics is a broad engineering field that is based on evaluating mechanical and electrical engineering systems, and working with mechanical and electrical systems. Mechatronics blends mechanical skills and tasks with electronic design. It is sometimes seen as a field similar to robotics.

By - Google    ( www.quora.com)

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**Re: Learning outcome for lecture 1**
by 27 - Pravin Gunjal - Friday, 3 July 2020, 9:41 PM

We have the learn the meaning of mechatronics and it's definitions.

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Mechatronics is the multidisciplinary branch of engineering that focused on the engineering of both electrical and mechanical systems,,and aslo includes a combination of robotics,telecommunication ,system, control,and product engineering.

Source:Wikipedia

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**Re: Learning outcome for lecture 1**
by Shubham Kasar - Friday, 3 July 2020, 9:53 PM

Today I had learned the basic definition and the introduction of mechatronics.

Mechatronics, which is also called mechatronic engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.

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**Re: Learning outcome for lecture 1**
by 35-Priti Jondhale - Friday, 3 July 2020, 10:49 PM

Today I have learned the meaning of mechatronics and three basic definitions of mechatronics

 Mechatronics is also define as, it is branch of engineering that focuses on designing, manufacturing and maintaining products  that have both mechanical and electronic components

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**Re: Learning outcome for lecture 1**
by Akanksha Khatode - Friday, 3 July 2020, 11:19 PM

Today's lecture we have learned the first new topic in Mechatronic and also it's three different types of definition.

The incorporation of electronic in mechanism. It also define as synergistic combination of both electrical&mechanical engineering to design a intelligent products as well as system.

By- google.

**Tags:** Akanksha khatode

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**Re: Learning outcome for lecture 1**
by Sharayu Dol - Friday, 3 July 2020, 11:21 PM

In today's session I had learned the meaning of mechatronics. 3 different definitions of Mechatronics.

mechatronics is the multidisciplinary branch of engineering that focus on the engineering of both electrical & mechanical systems. And also includes a combination of robotics, electronics, computer, telecommunications, system, control & product engineering.

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**Re: Learning outcome for lecture 1**
by 01-Nilesh Aher - Saturday, 4 July 2020, 7:49 AM

  Today I had learned  introduction, definitions & the example of mechatronics.Mechatronics is a multidisciplinary field of engineering.
  Mechatronics system is combination of mechanical, electrical telecommunications, control and computer science technologies.

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**Re: Learning outcome for lecture 1**
by Sarika Wagh - Saturday, 4 July 2020, 8:26 AM

Today I have learned introduction of mechatronics with it's definition

Mechatronics is an interdisciplinary area of engineering that combines mechanical and electrical engineering and computer science .A typical mechatronic system picks up signnal from the environment output signals , transforming them for example into forces , motions and action .

 _ Google

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**Re: Learning outcome for lecture 1**
by [Shubham Magar](#) - Saturday, 4 July 2020, 9:48 AM

We learn whats is mechatronics.
Mechatronics is a rapidly developing interdisciplinary field of engineering which comprises the development of varies computer integrated electro mechanical system.It is an integration of mechanical engg, electrical engg and electronic engg, computer engg,control and instrumentation engineering.

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**Re: Learning outcome for lecture 1**
by [6 Bhomale](#) - Saturday, 4 July 2020, 10:25 AM

A mechatronics system includes a combination of mechanical electrical telecommunication control and computer science technologies mechatronics is a multidisciplinary field of engineering the word mechatronics was originally Japanese English word

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**Re: Learning outcome for lecture 1**
by [66 Pratiksha Thorat](#) - Saturday, 4 July 2020, 10:31 AM

 from First lecture We had learned the introduction to mechatronics and basic terems related to it...
Mechatronics is the branch of engineering which focuses on designing and manufacturing and maintaining  the expected products that have both mechanical and electronic components and also have information or control system base..

Ref- Wikipedia

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**Re: Learning outcome for lecture 1**
by [09- Shalini Dalvi](#) - Saturday, 4 July 2020, 10:32 AM

In this lecture we have learned the meaning of mechatronics and it's definitions.

Mechatronics is a broad engineering field that is based on evaluating mechanical and electronic engineering systems and working with mechanical and electronic system. Mechatronics blends mechanical skill and tasks with electronic design it is sometimes seen as a field similar to robotics.

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**Re: Learning outcome for lecture 1**
by [31 Supriya Handal](#) - Saturday, 4 July 2020, 10:52 AM

From today's lecture we have learned the topic mechatronics and it's definition's.

The incorporation of electronics into mechanisms.

Also it is define as the synergistic combination of mechanical engineering, electronic engineering, and software engineering.

By - Google

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**Re: Learning outcome for lecture 1**
by [Girish Mhase](#) - Saturday, 4 July 2020, 11:31 AM

 A Mechatronics system includes a combination of mechanical, electrical, telecommunications, control and computer science technologies. Mechatronics is a multidisciplinary field of engineering.

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**Re: Learning outcome for lecture 1**

by [2137 Avinash Kadlag](#) - Saturday, 4 July 2020, 3:25 PM

I had learned  the topic 'Introduction to mechatronics' today.

In that topic there was 3 basic definition of the mechatronics of different publications

Ideally mechatronics means combination of electronics , electrical, mechanical and computer control engineering

_Source: Google

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**Re: Learning outcome for lecture 1**
by [17 Kalyani Erande](#) - Saturday, 4 July 2020, 8:45 PM

**Mechatronics** is an *Interdisciplinary* area of engineering that combines *Mechanical* , Electronics ,*Electrical*  engineering and *Computer Science* . Mechatronics System take signals from surrounding process that signal and provide output to actuators.

Eg:-

- Robots
- Anti lock braking system
- Engine control unit

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**Re: Learning outcome for lecture 1**
by [Kishori Bhalerao](#) - Sunday, 5 July 2020, 12:07 AM

Mechatronics is the multi disciplinary field that combines electrical, mechanical and computer engineering and refers to the skill sets needed in the contemporary ,advanced automated manufacturing industry.

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**Re: Learning outcome for lecture 1**
by [50-Pratik Nagare](#) - Sunday, 5 July 2020, 2:00 PM

We have the learn the meaning of mechatronics and it's definitions.

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**Re: Learning outcome for lecture 1**
by [36 Joshi Bhagyashri](#) - Sunday, 5 July 2020, 10:26 PM

- Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components.
-  As a design philosophy, mechatronics values an interdisciplinary, systems thinking approach to problem solving.

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**Re: Learning outcome for lecture 1**
by [Snehal Dhamane](#) - Monday, 6 July 2020, 8:50 AM

We have studied the what is mean by mechatronics, 3defination of mechatronics.
Defination:

the synergistic integration of mechanical engineering with electronics and electrical systems with intelligent computer control in the design and manufacture of industrial products, processes, and operations.

**Tags:** | snehal dhamane |

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**Re: Learning outcome for lecture 1**

by [Rutuja Havare](#) - Thursday, 16 July 2020, 9:59 PM

Today's lecture we have learned introduction of mechatronics. Mechatronics is the multidisciplinary branch of Engineering which focuses on designing and manufacturing the expected products that have both mechanical and electronics components. We have also learne the 3 definitions of mechatronics ,types of mechatronics and what are the uses of mechatronics in our life. It used in manufacturing , health care and tools that make our lives easy.

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**Re: Learning outcome for lecture 1**
by [34 Mahesh Ilhe](#) - Friday, 17 July 2020, 12:26 PM

Today,  i learned  the definition of Mechatronics with example.  (Three definitions were given. )

**Mechatronics, which is also called mechatronic engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering**.

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**Re: Learning outcome for lecture 1**
by [Divya Barke](#) - Friday, 17 July 2020, 12:44 PM

Mechatronics is a branch of engineering that focuses on designing manufacturers and maintenance products that have both mechanical and electrical components.

Ref : Google

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**Re: Learning outcome for lecture 1**
by [Divya Barke](#) - Friday, 17 July 2020, 12:44 PM

Mechatronics is a branch of engineering that focuses on designing manufacturers and maintenance products that have both mechanical and electrical components.

Ref : Google

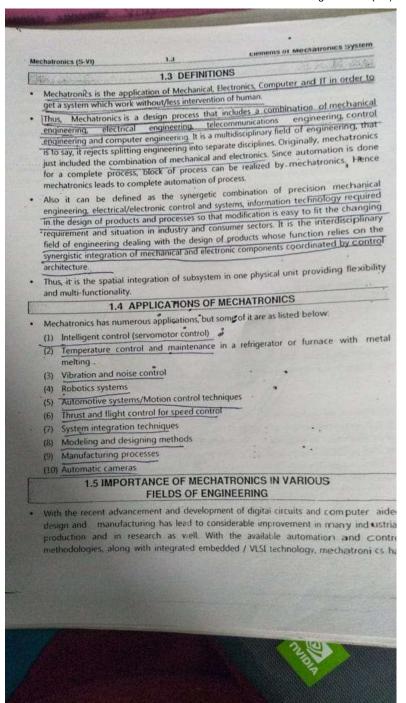Permalink     Show parent     Edit     Delete     Reply

**Re: Learning outcome for lecture 1**
by [Vivek Hadole](#) - Friday, 17 July 2020, 1:33 PM

"mechatronoic"is the combination of mechanical and electronic branches , in which we can combinaly use electronic and machanical components or material and make a new product which is called mechatronic equipment ,

Ex.washing machine, AC,in medical sectors-ventilator

Mechatronics (S-VI)                    1.3                    Elements of Mechatronics System

## 1.3 DEFINITIONS

- Mechatronics is the application of Mechanical, Electronics, Computer and IT in order to get a system which work without/less intervention of human.
- Thus, Mechatronics is a design process that includes a combination of mechanical engineering, electrical engineering, telecommunications engineering, control engineering and computer engineering. It is a multidisciplinary field of engineering, that is to say, it rejects splitting engineering into separate disciplines. Originally, mechatronics just included the combination of mechanical and electronics. Since automation is done for a complete process, block of process can be realized by mechatronics. Hence mechatronics leads to complete automation of process.
- Also it can be defined as the synergetic combination of precision mechanical engineering, electrical/electronic control and systems, information technology required in the design of products and processes so that modification is easy to fit the changing requirement and situation in industry and consumer sectors. It is the interdisciplinary field of engineering dealing with the design of products whose function relies on the synergistic integration of mechanical and electronic components coordinated by control architecture.
- Thus, it is the spatial integration of subsystem in one physical unit providing flexibility and multi-functionality.

## 1.4 APPLICATIONS OF MECHATRONICS

- Mechatronics has numerous applications, but some of it are as listed below:
  (1) Intelligent control (servomotor control)
  (2) Temperature control and maintenance in a refrigerator or furnace with metal melting
  (3) Vibration and noise control
  (4) Robotics systems
  (5) Automotive systems/Motion control techniques
  (6) Thrust and flight control for speed control
  (7) System integration techniques
  (8) Modeling and designing methods
  (9) Manufacturing processes
  (10) Automatic cameras

## 1.5 IMPORTANCE OF MECHATRONICS IN VARIOUS FIELDS OF ENGINEERING

- With the recent advancement and development of digital circuits and computer aided design and manufacturing has lead to considerable improvement in many industrial production and in research as well. With the available automation and control methodologies, along with integrated embedded / VLSI technology, mechatronics ha

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### Re: Learning outcome for lecture 1

by 52-PRATIK PANMAND - Friday, 17 July 2020, 4:49 PM

Today I have learned about introduction of Mechatronis,What is mechatronics,what are the application of mechatronics,their examples, various types of definitions etc..And what are uses of mchatronics in our life..

Mechatronics is an interdisciplinary area of engineering that combines mechanical and electrical engineering and computer science. A typical mechatronic system picks up signals from the environment, processes them to generate output signals, transforming them for example into forces, motions and actions.a

Examples of mechatronic systems are robots, digitally controlled combustion engines, machine tools with self-adaptive tools, contact-free magnetic bearings, automated guided vehicles, etc.

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**Re: Learning outcome for lecture 1**
by Amit Khandagale - Saturday, 18 July 2020, 11:43 AM

Mechatronics, which is also called mechatronics engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.

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**Re: Learning outcome for lecture 1**
by 00-Non editing Teacher - Saturday, 18 July 2020, 12:45 PM

Done

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**Re: Learning outcome for lecture 1**
by 62 Rushikesh Sawant - Saturday, 18 July 2020, 1:20 PM

Today we learn a concept 'Mechatronics' with its definition.

Mechatronics is the field of study integrating mechanical and electronics principles onto a single device.

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**Re: Learning outcome for lecture 1**
by Kiran Pansare - Saturday, 18 July 2020, 3:17 PM

Mechatronics is basically a computer-controlled mechanical system, including both an electronic computer and electromechanical components. It includes combination of mechanical engineering, electrical engineering, telecommunications engineering, control engineering , computer engineering , informatics , automation , robotics.

source: https://www.quora.com/What-exactly-is-mechatronics-What-scope-is-there-in-this-field

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**Re: Learning outcome for lecture 1**
by Swati Sonawane - Saturday, 18 July 2020, 3:48 PM

We have the learn the meaning of mechatronics and it's definitions.

We can also define mechatronics as the technology combining electrical and mechanical engineering.

Mechatronics is the multidisciplinary branch of engineering that focused on the engineering of both electrical and mechanical systems,,and aslo includes a combination of robotics,telecommunication ,system, control,and product engineering.

Ref:wikipedia

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**Re: Learning outcome for lecture 1**
by Swati Sonawane - Saturday, 18 July 2020, 3:51 PM

We have the learn the meaning of mechatronics and it's definitions.

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**Re: Learning outcome for lecture 1**
by 20 Shraddha Gaikwad - Saturday, 18 July 2020, 3:59 PM

Mechatronics is the branch of engineering which focussed on the electricle and mechanical and it is the combination of robotics, ,electronics ,computer telecommunications, and product engineering

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**Re: Learning outcome for lecture 1**
by Dnyaneshwari Dolas - Saturday, 18 July 2020, 8:54 PM

In today's session I had learned the meaning of mechatronics. 3 different definitions of Mechatronics.

mechatronics is the multidisciplinary branch of engineering that focus on the engineering of both electrical & mechanical systems. And also includes a combination of robotics, electronics, computer, telecommunications, system, control & product engineering.

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**Re: Learning outcome for lecture 1**
by 6 Bhomale - Sunday, 19 July 2020, 8:44 AM

Mechatronics is the branch of engineering that focuses designing manufacturing and problem solving

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**Re: Learning outcome for lecture 1**
by 51.Vaibhav Pabale - Sunday, 19 July 2020, 11:27 AM

Mechatronics, which is also called mechatronics engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.

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**Re: Learning outcome for lecture 1**
by Yogita Shinde - Sunday, 19 July 2020, 2:01 PM

Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components. As a design philosophy, mechatronics values an interdisciplinary, systems thinking approach to problem solving.

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**Re: Learning outcome for lecture 1**
by 67- Gauri Vadak - Sunday, 19 July 2020, 3:09 PM

Mechatronics is the brand of Engineering that deals with the study of maintainance and designing of the products related to Electrical and Mechanical stream

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**Re: Learning outcome for lecture 1**
by Priti Ghadge - Sunday, 19 July 2020, 4:25 PM

I learn about Many more definitions of mechatronics..I learned from the first lecture ' introduction of mechatronics'..
Mechatronics is area of engineering that combines mechanical ,electrical engineering and computer science

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**Re: Learning outcome for lecture 1**
by Nikhil Dighe - Sunday, 19 July 2020, 4:54 PM

We have the learn the meaning of mechatronics and it's definitions.

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**Re: Learning outcome for lecture 1**
by Poorva Patil - Sunday, 19 July 2020, 5:25 PM

From this lecture I know about deffenation of mechatronics .the combination of mechanical engineering, computing, electronic, as use in the design and development of new manufacturing techniques is called mechatronics

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**Re: Learning outcome for lecture 1**
by Aniket hase - Sunday, 19 July 2020, 6:14 PM

Today I have learned the concept of mechatronics. And learned 3 different definitions in mechatronics in different publications.
Mechatronics : Mechatronics can be defined as the application of electronics and computer technology to control the motion of mechanical system.and to design improved products.

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**Re: Learning outcome for lecture 1**
by Nutan Mandlik - Sunday, 19 July 2020, 6:40 PM

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Ref:wikipedia

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**Re: Learning outcome for lecture 1**
by Rutuja Havare - Sunday, 19 July 2020, 7:53 PM

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**Re: Learning outcome for lecture 1**
by Annasaheb Landge - Sunday, 19 July 2020, 8:35 PM

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Ref:wikipedia

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**Re: Learning outcome for lecture 1**
by 58 Vishakha Pawar - Sunday, 19 July 2020, 9:02 PM

Mechatronics , which is also called mechatronics engineering,is a multidisciplinary branch of engineering that focuses on the Engineering of both electrical and mechanical systems ,and also includes a combination of robotics,electronics,telecommunications ,computer,systems, control and product engineering.

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**Re: Learning outcome for lecture 1**
by 13 mayuri Dighe - Monday, 20 July 2020, 8:11 AM

Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and

electronic components. As a design philosophy, mechatronics values an interdisciplinary, systems thinking approach to problem solving.

**Re: Learning outcome for lecture 1**
by 19-Vaibhav Gade - Monday, 20 July 2020, 8:16 AM

Today I had learned introduction, definitions & the example of mechatronics.Mechatronics is a multidisciplinary field of engineering. Mechatronics system is combination of mechanical, electrical telecommunications, control and computer science technologies.

**Re: Learning outcome for lecture 1**
by Ravikiran Bhanage - Monday, 20 July 2020, 10:39 PM

We can define mechatronics as the technology combines electrical and mechanical energy

**Re: Learning outcome for lecture 1**
by Abhishek Dhekane - Wednesday, 29 July 2020, 11:52 AM

Today I have learned the meaning of mechatronics and it's three definitions.

Mechatronics,which is also called mechatronics engineering,is a multidisciplinary branch of engineering that focouses on the engineering of both electrical and mechanical systems,and also includes a combination of robotics, electronics, computer, telecommunication,systems, control,and product engineering

**Re: Learning outcome for lecture 1**
by 26-Yogesh Gorde - Thursday, 13 August 2020, 11:31 AM

Today we had learned the basic definition and the introduction of mechatronics.

Mechatronics, which is also called mechatronic engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.

**Re: Learning outcome for lecture 1**
by Sarika Wagh - Friday, 14 August 2020, 8:15 AM

Today I had learned introduction of mechatronics.
Mechatronics is a multidisciplinary branch of engineering that focus on engineering of both electrical and mechanical system, and also induces a combination of robotics ,electronics ,computer ,control and product engineering.
-Google.

**Re: Learning outcome for lecture 1**
by Rushikesh Walunj - Sunday, 30 August 2020, 10:09 AM

Mechatronics is an interdisciplinary area of engineering that combines mechanical and electrical engineering and computer science. A typical mechatronic system picks up signals.
Today I have learned about introduction of Mechatronis,What is mechatronics,what are the application of mechatronics,their examples, various types of definitions etc..And what are uses of mchatronics in our life..

**Re: Learning outcome for lecture 1**
by Rushikesh Walunj - Sunday, 30 August 2020, 2:13 PM

~~We have the learn the meaning of mechatronics and it's definitions.

We can also define mechatronics as the technology combining electrical and mechanical engineering.

Mechatronics is the multidisciplinary branch of engineering that focused on the engineering of both electrical and mechanical systems,,and aslo includes a combination of robotics,telecommunication ,system, control,and product engineering.

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**Re: Learning outcome for lecture 1**
by Ganesh Bhadakwan - Thursday, 3 September 2020, 12:16 PM

Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components. As a design philosophy, mechatronics values an interdisciplinary, systems thinking approach to problem solving.

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**Re: Learning outcome for lecture 1**
by Ravikiran Bhanage - Friday, 4 September 2020, 9:13 AM

We define mechatronics as the technology combining electrical and mechanical engineering.

Mechatronics is the multidisciplinary branch of engineering that focused on the engineering of both electrical and mechanical systems,,and aslo includes a combination of robotics,telecommunication ,system, control,and product engineering.
--Ref Google

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**Re: Learning outcome for lecture 1**
by Shubham Pawar - Monday, 14 September 2020, 6:57 PM

Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components. As a design philosophy, mechatronics values an interdisciplinary, systems thinking approach to problem solving.

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◄ Topic 1: Introduction to Mechatronics

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Topic 2A: Key elements and domains of mechatronics systems ►

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