



# MARIANO MARCOS STATE UNIVERSITY

## College of Teacher Education

*Center of Excellence in Teacher Education*



# Science Technology and Society

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# SCIENCE TECHNOLOGY AND SOCIETY AND THE HUMAN CONDITION



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# Objectives

1. Discuss what happens when technology and humanity cross by specific examples.
2. Share their personal experiences with regards to:
  - a) mobile Phones, b) internet surfing.
3. Explain how robots change humanity.



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Technology keeps on progressing due to the changing times and environment and also to the ever progressing mind of mankind.

## **Television sets, mobile phones, computers and humanity**

-TV by Paul Gottlieb Nipkow , Alan archibalb Campbel l- Swinton and Boris Rosing

### **Roles:**

- (1) platform for advertisements and information dissemination;
- (2) recreational activity;
- (3) good stress reliever;
- (4) platform for different propagandas and advocacies



- **Mobile Phones**

- Martin Cooper

- used for communication , surf internet , picture taking etc all in one device.

- **TV , mobile phones play a great role in the lives of the people. Can you relate with this? How do you use this technology? A typical household owns all these things.**



# ROBOTICS AND HUMANITY

1. Robots – International Federation of Robotics

2. Robot- actuated mechanism programmable in two or more axes with degree of autonomy, moving within its environment to perform intended task .



## Roles Played by Robot – Isaac Asimov

1. **Law 1.** A robot may not injure a human being or through inaction, allow a human being to come to harm
2. **Law 2.** A robot must obey the orders given by human beings except where such orders would conflict with the first law
3. **Law 3.** A robot must protect its own existence as long as such protection does not conflict with the first and second law.





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- **Ethical Dilemmas** faced by robotics

Who should be held accountable if someone's safety is compromised by a robot? (**Robotic surgery**).

**Example** : relate the story of my Ate who is a head nurse at New York University and was operated by a robot.



- **Answer the following questions.**

1. Do people really need technology in their lives? Is it really a necessity?
2. Should there be an ethics of technology?
3. Do you believe robots can really replace teachers?



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