



**Faculty of Engineering**  
**Department of Biomedical Engineering**

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**05**

**Sensors Introduction**

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**BME 312**

**Biomedical Instrumentation II**

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- **Transducer ?**
  - **Sensor ?**

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- **Transducer** is a device capable of converting one form of energy to another form.
  - **Sensor** is a device which can measure physical quantities.

# Sensor

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- **Sensor** is a device which can measure physical quantities.

# Transducer

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- **Transducer** is a device capable of converting one form of energy to another form.

# Biosensors

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- **Biosensor** is a sensor which can measure biological quantity or signal and has a transducer which can convert the biological quantity or signal usually into an electrical signal.