



## Course Outcomes

At the end of the course, learners will be able to:

- Understand and implement the functions & Capabilities of embedded platforms for easy prototyping.
- Identify the type of sensors and actuators for required applications.
- Develop communication between devices using different protocols.
- Develop IoT based systems with wireless network connections and accessing devices over cloud.

## Text Books

1. Raj Kamal, " Embedded Systems - SoC, IoT, AI and Real-Time Systems", 4th Edition, McGraw Hill, 2020.
2. Mohit Arora, "Embedded System Design", 1st Edition, Learning Bytes Publishing, 2016.
3. Elecia White, "Making Embedded Systems", 1st Edition, Shroff/ O' Reilly, 2012.
4. Jack Ganssle, " The Firmware Handbook", 1st Edition, Newnes, 2004.

## References

1. <https://juniorfall.files.wordpress.com/2011/11/arduino-cookbook.pdf>
2. <https://drive.google.com/file/d/13s0m3IHPEFP2f2aCuVNRWeBZNXWKTW5/view?ts=6231cab3>
3. [https://ptolemy.berkeley.edu/books/leeseshia/releases/LeeSeshia\\_DigitalV2\\_2.pdf](https://ptolemy.berkeley.edu/books/leeseshia/releases/LeeSeshia_DigitalV2_2.pdf)
4. <https://www.riverpublishers.com/pdf/ebook/RP9788793519046.pdf>