



RIPHAH
INTERNATIONAL
UNIVERSITY

Real-time Artificial Intelligence based Systems

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Outcome of the course

- 1) Introduction to Digital Electronics and High Performance Computing Technology**
- 2) Programming Applications**
- 3) Introduction to Artificial Intelligence for real life problems**

- 4) Tools and Techniques**
 - **Basic understanding of supercomputers, programming and scripting languages**
 - **Deep Learning Frameworks**
 - **Tools and Programming Models for Supercomputing**
 - **Accessing and Using Supercomputers**

Real-time System

A **Real-time System** is a system which execute/process an application or task in a "real-time constraint".

Real-time constrains can be an event to system response.

Artificial Intelligence

Study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals like human.

Real-time AI System

Capture behavior of real life problems using multiple sensor data.

Understand phenomenon of the problem using complex mathematical models and algorithms.