Embedded Systems Development Technology Projects:
1. Implementation of the recording device (data logger) of weather conditions on the memory card with Real Time Clock (Intel Galileo Gen2 or STM32F429I-DISCO).
2. Implementation of the digital photo frame with an alarm clock function (STM32F429I-DISCO).
3. Implementation of the movie album from the files stored on memory card. (STM32F429I-DISCO).
4. Implementation of the electronic information label door with a Web interface (Intel Galileo Gen2).
5. Implementation of the arcade game by using a graphical LCD display and user interface system like keyboard, joystick and touch screen. (STM32F429I-DISCO).
6. Implementation of the arcade game by using a graphical LCD display controlled by micromechanical sensors like accelerometers, gyroscopes and magnetic field sensors. (STM32F429I-DISCO).
8. Implementation of the digital spirit level by using 3-axis accelerometers (Intel Galileo Gen2 or STM32F429I-DISCO).
9. Implementation of HID class device performing the roles of a computer mouse or numeric keyboard with a USB interfaces (STM32F429I-DISCO).
10. Implementation of the digital oscilloscope by using rotary encoders and graphic LCD display (Intel Galileo Gen2 or STM32F429I-DISCO).
11. Implementation of the digital filter with adjustable parameters (Intel Galileo Gen2 or STM32F429I-DISCO).
12. Implementation of the function generator (sine, triangle, rectangle) using Direct Digital Synthesis DDS (Intel Galileo Gen2 or STM32F429I-DISCO).
13. Implementation of the spectrum analyzer of analog signal (Intel Galileo Gen2 or STM32F429I-DISCO).
14. The project proposed by the students (any embedded system).