Arduino Uno Syllabus

Introduction to Arduino:

The Arduino Platform, Block diagram, Architecture, Pin functions, overview of main features such as I/O Ports, Timers, interrupts serial port, PWM, ADC, etc.

Introduction to Arduino IDE, writing, saving, compiling and uploading sketches.

Interfacing discrete LEDs, Binary counter, Seven Segment LEDs.

Interfacing LCD, switch Interface.

Interfacing with different type of sensors and communication modules.

(Note-Since Arduino is released under an open source license, it already has many built in libraries, hence in this module a project based approach will be followed rather than a conventional one.)