

BLUETOOTH DEVELOPMENT

- 1) Bluetooth Introduction
- 2) Bluetooth Technology
- 3) Bluetooth LE, Bluetooth low energy
- 4) Bluetooth core specification
- 5) Bluetooth profiles
- 6) Bluetooth Networking architecture
- 7) Bluetooth operations
- 8) Bluetooth implementations
- 9) Bluetooth protocol
- 10) Bluetooth architecture
- 11) Bluetooth physical layer
- 12) Physical channel
- 13) Physical links
- 14) Spectrum
- 15) Interference
- 16) Class of Radio
- 17) Power and Range
- 18) Bluetooth packets
- 19) Link manager protocol (IMP)
- 20) Host controller Interface (HCI)
- 21) Logical link control and Adaption Protocol (L2CAP)
- 22) Bluetooth security
- 23) Bluetooth smart
- 24) Bluetooth IOT
- 25) Bluetooth Standards
- 26) Bluetooth Conformance and Compatibility testing
- 27) Bluetooth 5
- 28) Bluetooth 5 and connectionless IOT
- 29) Bluetooth 5 advancing beacon and location based capabilities.

ADVANCED C & UNIX PROGRAMMING

This course provides a thorough practical exposure to the C programming language, the workhorse of the UNIX operating system. The first two weeks will cover basic syntax and grammar which covers Basic C, Loops, Function, Array, Pointer, and Structure and expose students to practical programming techniques. The remaining lectures will focus on more advanced concepts, such as dynamic memory allocation, memory management Data Structure, concurrency and synchronization, UNIX signals and process control, library development and usage. Daily programming assignments and weekly laboratory

Primebit Solution

exercises are required. Knowledge of C is highly marketable for full-time positions in software and embedded systems development.