UNIT I   EMBEDDED COMPUTING  9
Challenges of Embedded Systems – Embedded system design process. Embedded processors – ARM processor – Architecture, ARM and Thumb Instruction sets

UNIT II  EMBEDDED C PROGRAMMING  9

UNIT III  OPTIMIZING ASSEMBLY CODE  9

UNIT IV  PROCESSES AND OPERATING SYSTEMS  9
Multiple tasks and processes – Context switching – Scheduling policies – Interprocess communication mechanisms – Exception and interrupt handling - Performance issues.

UNIT V  EMBEDDED SYSTEM DEVELOPMENT  9
Meeting real time constraints – Multi-state systems and function sequences. Embedded software development tools – Emulators and debuggers. Design methodologies – Case studies – Complete design of example embedded systems.

Total = 45

REFERENCES