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| **Course – 55 Title: Computer Peripheral and Interfacing** |
| **Course No.: CCE - 321 Credit : 3.00 Contact Hours: 3 Total Marks: 100** |

**11.1 Rationale:**

A computer engineer needs to gain a practical knowledge of the various methods used to interconnect peripheral devices to computers

**11.2 Objectives:**

* To understand the principles used in interfacing devices to computers and will gain a practical understanding of how those principles are put to use by manufacturers
* To assign I/O addresses, IRQs, DMA channels, and other I/O related parameters in installing real equipment

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| **11.3**  **Learning Outcomes** | **11.4**  **Course Content** | **11.5**  **Teaching  Learning Strategy** | **11.6 Assessment Strategy** |
| * Design the interface between computer and the outside world * Explain the operation of interface between computer and the outside world | Design and operation of interface between computer and the outside world | Lecture | Essay, Short answer |
| * Relate the operation of various devices to interfacing | Sensors, transducers ad signal conditioning circuits, interfacing memory and I/O devices-such as monitors, printers, disc drives, optical displays, some special purpose interface cards, stepper motors and peripheral devices | Lecture, Demonstration | Identification, Essay, Short answer |
| * Define and explain IEEE-488, RS-232 and other buses | IEEE-488, RS-232 and other buses | Lecture | Essay, Short answer |
| * Examine various peripheral chips | Study and applications of peripheral chips including 8212, 8155, 8255, 8251 | Lecture, Demonstration, Problem based learning, Exercise | Exercise, Assignment |

**RECOMMENDED BOOKS AND PERIODICALS**

**Text Books**:

1. Jyoti Snehi: Computer Peripherals and Interfacing
2. Amit Karma: Computer Peripherals and Interfacing