**BIS 2200 Intelligent Systems (4 CU)**

**Course Description:** By the completion of this course, the student should; Have an appreciation of computational issues in problem solving; Have an understanding of concepts, methods and principles in knowledge based problem solving; Be able to design and implement prototype knowledge systems.

**Indicative Content:** This unit provides an introduction to intelligent system technologies such as knowledge engineering, applied artificial intelligence and expert systems as key players in filling a growing niche in corporate information systems. Topics include: natural language understanding, vision & learning; heuristic programming; search strategies; knowledge representations, acquisition and Applications i.e. Expert Systems’ design techniques, programming aspects, applications, successes, limitations and Neural Networks).

**Reference Book:**

i. M. Negnevitsky, *Artificial Intelligence: A Guide to Intelligent Systems*, 2nd edition, Addison- Wesley, 2004.

ii. P. Norvig, *Artificial Intelligence: A Modern Approach*, 2nd edition, Prentice Hall, 2002.