



# **SNS COLLEGE OF ENGINEERING**

**Kurumbapalayam(Po), Coimbatore – 641 107**

**Accredited by NAAC-UGC with 'A' Grade**

**Approved by AICTE, Recognized by UGC & Affiliated to Anna  
University, Chennai**

**Department of Artificial Intelligence and Data Science**

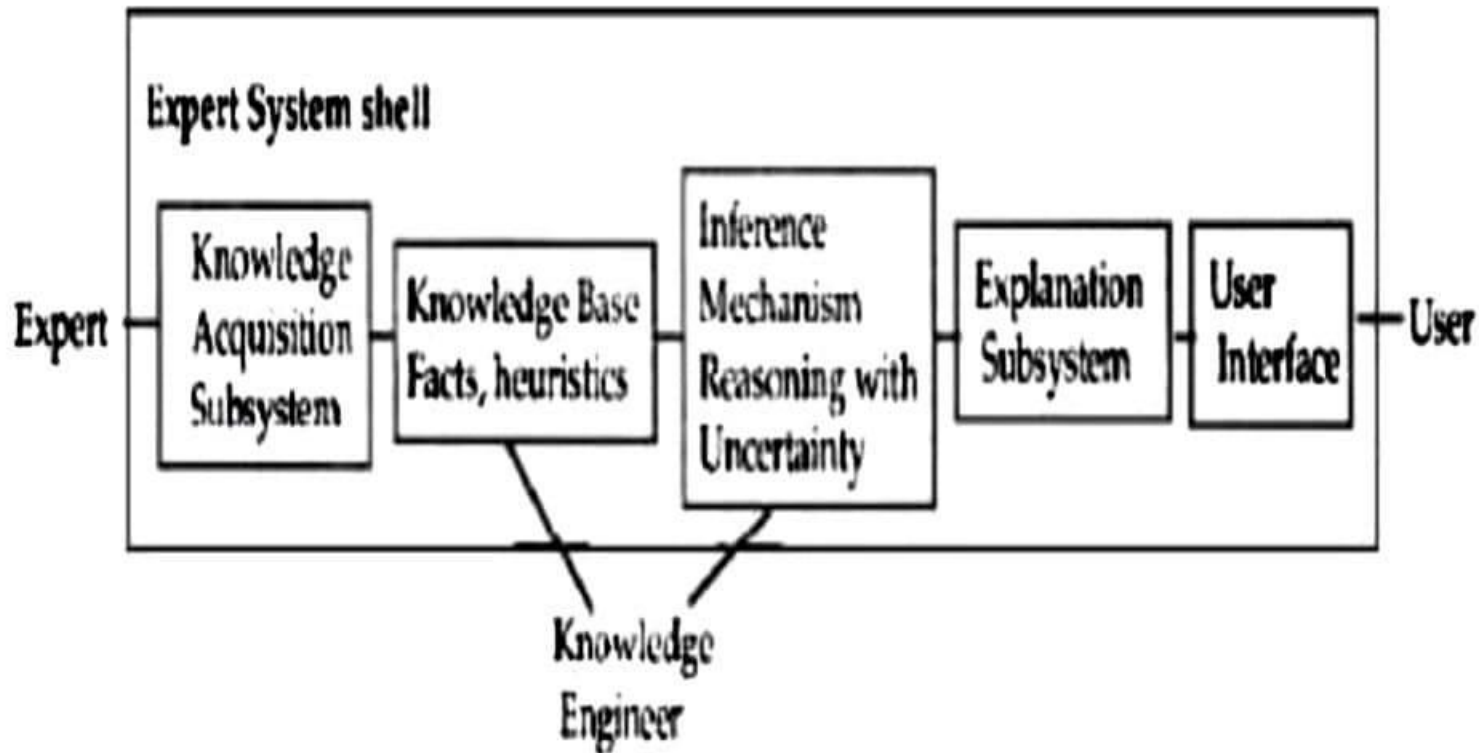
**Course Name – Introduction to Artificial Intelligence**

**II Year / III Semester**

**Unit 5 Expert System and Application**



# Expert System Shell





# Expert System Shells

- Initially each expert system is build from **scratch (LISP)**.
- Expert System Shells are a **collection of software packages & tools** used to develop expert systems
- A shell provides the developers with **knowledge acquisition, inference engine, user interface, and explanation facility**.
- Example of shell is EMYCIN (for Empty MYCIN derived from MYCIN).
- Expert system shells **CLIPS, JESS, DROOLS**



# Shells

- Shells provide greater flexibility in representing knowledge and in reasoning
- Expert system shells need to integrate with other programs easily.
- Expert systems cannot operate in vacuum.
- The shells must provide an easy-to-use interface between an expert system written with the shell and programming environment.