



## Knowledge Engineering Course

### Activity 2: Creating a Semantic Network within Protégé

#### 1. Introducing Protégé:

In this pivotal phase of the learning process, the instructor introduces the multifaceted tool, Protégé, renowned for its proficiency in constructing semantic networks and ontologies. Through an engaging and demonstrative example, the class delves into the practical intricacies of creating these structured information models. This introduction not only familiarizes students with the software but also lays the foundation for understanding how these semantic structures function in real-world applications.

#### 2. Using WebProtégé:

Each group partakes in a significant hands-on experience as they are assigned WebProtégé projects, fostering a collaborative environment to evolve an ontology based on the cognitive map conceived during Activity 1. This phase encourages active engagement and knowledge sharing among group members, allowing for collective enrichment and the rectification of potential errors within the constructed ontology. Through this concerted effort, the final product emerges—a meticulously refined ontology seamlessly integrated into an application crafted by the students themselves. This application boasts a dedicated user interface, providing an interactive platform for users to submit queries and receive comprehensive, structured responses, thereby showcasing the practical application and usability of the constructed ontology within a tangible user-centric interface.