Outline
This course is offered as a core course for MScIT students. Object-oriented analysis and design are skills necessary to develop robust, easy to maintain systems. The students will learn UML and use it to identify, extract, and represent the requirements for software development. They will learn to design an object oriented solution for the given problem domain. The students will use object oriented tool (Rational Rose) to facilitate object oriented solution development. The topics such as requirements analysis, use-case models, class models, behavioral models like state-transition, activity modes are discussed. The purpose of the labs is to reinforce the concepts and methods discussed in the class. The students apply these concepts and methods for the given problem domain using UML tool like Rational Rose during the labs.

Text Books
• Rumbaugh et.al., “Object-Oriented Modeling and design,” Pearson Education, 2002