



## **Doctoral Comprehensive Examination (DCE) (SPRING 2016)**

### **Computer Science Department - Rules and Regulations**

The DCE for Computer Science students will consist of two written examinations. First written examination (WExam1) will be taken from discipline specific area (research area) of the student. It will include the courses of **specialized area** taught to the student evaluating the in depth knowledge of the area.

The second written examination (WExam2) will be taken to evaluate the breadth knowledge of computer science field in general. The student will provide six subject names of his /her choosing from the list given below in written with his/her signatures as well as concerned supervisor (to be) signatures. This is to be provided at least three weeks prior to the date of exam. **Students belonging to any research/specialization area cannot choose the subjects of their area of specialization as a choice in second written examination (WExam2).** The student will have to attempt all the questions from his/her six subjects of choosing only.

#### **Specialized Area Knowledge - WExam1 (2 hours exam, choose any 1 area):**

- Area 1: Human Computer Interaction
- Area 2: Natural Language Processing
- Area 3: Digital Image Processing
- Area 4: Social Networks
- Area 5: Computer Networks

#### **Breadth Knowledge - WExam2 (4 hours exam, six subjects to be chosen and informed, from the below list prior to exam):**

- Advanced Analysis of Algorithms
- Advanced Operating System Concepts
- Advanced Computer Architecture
- Natural Language Processing/ Advance Topics in Natural Language Processing
- Adaptive Interactive Systems
- Advanced Topics in Data Mining
- Research Methodology in IT
- Emerging Technologies and Society
- Advanced Topics in Distributed Systems
- Advanced Topics in Cryptography and Network Security
- Advanced Topics in Machine Learning
- Digital Image Processing/ Advance Topics in Digital Image Processing
- Social Networks/ Advance Topics in Social Networks
- Object Oriented Paradigm, Data Structures
- Database Systems
- Software Engineering & Development
- Artificial Intelligence

According to PhD comprehensive examination policy, passing marks for each exam is 60%.

**Note: Rules and Regulations of Doctoral Comprehensive Exam are subject to change in next semesters.**