**CSC 3207 Computer Security**

(a)Description

Computer security is a branch of technology concerned with digital security or information security applied to computers. Since the largest part of the computer that users interact with is software, computer security pays big attention to development of secure software.

(b) Aims

The aimsof thecourseare:

*•*Tointroducestudentstothreatsfacedbycomputersintheconnected digitalworld.

*•*To introduce students to techniques that are used to protect com- puters against various threats.

(c)TeachingandLearningPatterns

The teachingpatternisbylectures,labsessionsandgroupprojects

(d) Indicativecontent

*•*Digitalsecurityprinciples

*•*Hardware basedsecuritymechanisms

*•*Secureoperating systems

*•*Securityarchitecture

*•*Securitybydesign

*•*Securecoding(SoftwareSecurity)

*•*AccessControlLists

*•*SecurityApplications

(e)Assessmentmethod

AssessmentwillconstitutePracticalassignmentsonatleast5chapters ofthecourseandwrittencoursework(20%)andwrittenExam(60%).

(f)Readinglist

(a)RossJ.Anderson:SecurityEngineering:AGuidetoBuilding

DependableDistributedSystems,Willey2001.

(b) RobertC.Seacord:SecureCodinginCandC++. AddisonWesley,

2005.