**BSE 3202 Distributed Systems Development**

1. Description

This course gives students theoretical and practical skills on develop- ment of distributed systems and applications. This include distributed- system-specific challenges like reliability and robustness.

2. Aims

The aim of the course are to equip students with skills of developing distributed systems

3. Teaching and Learning patterns

Teaching will be by class lectures and laboratory practicals/demonstrations

4. Indicative content

*•* Event-driven software architectures,

*•* Distributed object computing,

*•* Development, documentation and testing of distributed applica- tions

*•* Techniques for reusable, extensible and efficient software systems

*•* Maintainability and concurrence in distributed systems

*•* Abstraction based on patterns and object-oriented techniques

5. Assessment Method

Assessment will be in form of tests and (practical) assignments (40%)

and final examination (60%)

6. Reading list

(i) S. Tanenbaum and M. V. Steen, Distributed Systems: Principles and Paradigms, Second Edition, Prentice Hall, 2006.

(ii) R. Anderson, Security Engineering: A Guide to Building Depend- able Distributed Systems, John Wiley & Sons, 2001.