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| **Course – 52 Title: Simulation and Modeling Sessional**  |  |
| **Course No.: CIT 324 Credit : 1.5 Contact Hours: 2** | **Total Marks: 100** |

**10.1 Rationale:**

To contribute in ICT based innovative model, one needs to develop program on random number, perform the algorithm of randomness and correlations justification and perform simulation in the system.

**10.2 Objectives:**

* To perform computer simulations in different system.
* To develop the program for random number and the randomness justification in the system.
* To perform the algorithm for computer program implemented in system.

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| **10.3** **Learning Outcomes** | **10.4** **Course Content** | **10.5** **Teaching Strategy/Learning Experience** | **10.6 Assessment Strategy** |
| * Develop the program of random number
* Evaluate the programming algorithm
 | Random number generator, statistical analysis of results, validation and verification techniques. |  Exercise | Exercise |
| * Implement and perform the computer simulation
 | Simulation packages, verification of simulation computer program.  |  Exercise | Group Exercise |
| * Develop program on different modeling
 | Program on additive and subtractive modeling; Curves and Surfaces modeling | Exercise | Assignments |

**RECOMMENDED BOOKS AND PERIODICALS**

**Text Books**:

1. Byron J. T. Morgan : Elements of Simulation

2. Law, Keltan : Simulation Modeling and Analysis

3. D.S.Hira : System Simulation

4. Geoferry Goedon : System Simulation