



**Faculty of Computer Studies (FoCS)**  
**Sub Committee for Curriculum Development**

**Format to submit syllabus**

**Course Name:** IS Risk Analysis

**(UG/PG):** PG

**Number of Credits:** 2

**Level:** 4

**Learning Objective(s):** This course will motivate students to understand the requirements for security in any government agency or business organization through the use of case studies.

Upon completion of the course, the student will:

Understand basic security concepts, terminology and possible solutions.

Develop an understanding of the social and legal issues of security and privacy.

Understand the basics of crime intelligence and forensics analysis.

Be able to apply risk analysis, evaluation and mitigation methods.

**Pedagogy:**

Class discussion

Case Study

Presentations

**Pre-learning:** NA

**Course Outline:**

| Sr.No. | Topic  | Hours     |
|--------|--|-----------|
| 1      | Information security aspects: confidentiality, integrity, availability, and non-repudiation.   | 6         |
| 2      | Various methods of safeguarding information concerns: single-and multi-factor authentication, encryption, digital signatures, prevention of denial of service attacks, threats | 6         |
| 3      | Professional, ethical and legal issues related to security, in particular to social engineering.   | 4         |
| 4      | Identity theft, spam, spyware, and adware. Information warfare and information assurance.  | 4         |
| 5      | Vulnerability analysis, crime and intelligence analysis, forensics , Risk assessment, risk control, risk metrics, risk measure and risk mitigation – A case study approach     | 10        |
|        | <b>Total</b>   | <b>30</b> |

**Books Recommended:**

1. Security Awareness - Applying Practical Security in Your World, 4<sup>th</sup> Ed. Mark Ciampa  
Copyright © 2014 Course Technology  
ISBN -13: 978-1-111-64418-5
2. Computer Forensics And Cyber Crime, An Introduction, 3<sup>rd</sup> Ed. Marjie Britz  
Copyright © 2013 Pearson/Prentice Hall  
ISBN-13: 978-0-13-267771-4

**Suggested Evaluation Methods:**

Assignments  
Presentation  
Case study

**Parallel/Similar courses the existing curriculum:**

| S.No.    | Name of the course | Institute where it was offered |
|----------|--------------------|--------------------------------|
| <u>1</u> | =                  | =                              |
|          |                    |                                |
|          |                    |                                |
|          |                    |                                |

|                |                       |       |  |  |  |
|----------------|-----------------------|-------|--|--|--|
| Name of Member | Dr Pravin S. Metkewar |       |  |  |  |
| Designation    | Associate Professor   |       |  |  |  |
| Org. / Inst.   | SICSR                 | SICSR |  |  |  |
| Signature      |                       |       |  |  |  |

Name of the Expert:

Signature:

Date: