Course Syllabus

Course Code   :   **ITRENDS**

Course Name   :   **INFORMATION TECHNOLOGY TRENDS**

Course Description: This course explores and discusses current and future trends in the field of information technology with emphasis on the latest issues that affects the local and global economy.

Course Credit   :   **Three (3) units**

Course Prerequisite :   **Intern2 for CSIT students**

Course Objectives   :   The course aims to enhance and update the students' perspective of the IT industry by examining key developments and relating ideas with fellow students, as well as critically analyzing the developments that would lead to future trends. Students will explore selected topics that would enhance their knowledge in the IT field as well as its accompanying domains.

Learning Outcomes

At the end of the course, the students should be able to:

L1	Identify key insights and IT players in the global IT trends
L2	Appraise at strategic level the key issues involving tools, methods, standards and systems, associated with enterprise integration
L3	Predict and examine emerging technologies and standards
L4	Examine the impact of cloud computing, analytics, mobile, social and security (CAMSS) to an individual and society

COURSE OUTLINE

Week	Learning Objectives	Topic Objectives	Module	Module Name	Assessment / Output
1	L1, L3	T1: Be introduced to the course outline & class policies. T2: Describe career opportunities available in various segments of the computer industry T3: Identify ways to stay current with changing technology	1 2-6	Introduction / Course Outline / House Rules Careers in IT	Case Study
2	L1, L3, L4	T1: Learn the predictions made by leading IT research firms T2: Recognize how these predictions affect the decision making of individuals and organizations	7-9 10-12	IT Predictions by Gartner IT Predictions by IDC	Documented evaluation; Case Study
3	L2, L3	T1: Understand the Macro Environment Analysis methods PESTEL Analysis and Porter's Five Forces Analysis. T2:Determine how these analysis methods are used.	13-14 15 16-17 18	Macro Environment Analysis: PESTEL Analysis Case Study Analysis: PESTEL Analysis Macro Environment Analysis: Porter's Five Forces Analysis Case Study Analysis: Porter's Five Forces	Documented evaluation; Case Study
4	L2, L3	T1: Assess understanding of Macro Environment Analysis methods PESTEL Analysis and Porter's Five Forces Analysis.	19-20 21	Quiz: PESTEL Analysis and Porter's Five Forces Analysis Review of Quiz:	Documented evaluation; Case Study

				PESTEL Analysis and Porter's Five Forces Analysis	
		T2: Interpret IDC's report on worldwide IT spending trends for 2014.

T3: Recognize the importance and value of the 3rd Platform in an enterprise infrastructure. | 22

23 | IDC Report: Worldwide IT Spending Trends in 2015

IDC Report: Value Shifting from 2nd Platform to 3rd Platform | |
| 5 | L2, L3 | T1: Correlate the 3rd platform with today's business processing requirements.

T2: Learn the opportunities and challenges of mobile devices and platforms

T3: Understand and be able to explain innovation and usage of Cloud Services

T4: Evaluate mobile devices and platform strategies, and cloud services for enterprise usage. | 25

26-27

28-30 | Quiz: 3rd Platform, Mobile and Cloud services

IDC Report: Big Data and New Services

IDC Report: Social Networking and Social Business | Documented evaluation; Case Study |
| 6 | L2, L3 | T1: Assess understanding of the 3rd platform, Mobile and Cloud services

T2: Interpret IDC's report on Big Data and new services for 2014.

T3: Assess business value of Social Networking and Social Business | 31-32

33-34

35-36 | Quiz: 3rd Platform, Mobile and Cloud services

IDC Report: Big Data and New Services

IDC Report: Social Networking and Social Business | Documented evaluation; Case Study |
| 7 | L2, L3 | T1: Understand the 3rd Platform Datacenter | 37-38 | IDC Report: 3rd Platform Datacenter | Documented evaluation; |

		transformation issues and the rising role of Cloud Service Providers		and the Rising Role of Cloud SPs	Case Study
		T2: Identify innovative Industry solutions, its disruptions and new roles in the future	39-40	IDC Report: Innovative Industry Solutions: Disruptions and New Roles	
		T3: Examine how the Internet of Things accelerates the growth of the 3rd platform.	41-42	IDC Report: Internet of Things Accelerates 3rd Platform Growth	
8	L2, L3	T1: Assess understanding of 3rd Big Data, Social Networking and Business, 3rd Platform T2: Datacenter, Industry Solution Disruptions and new roles and Internet of Things. T3: Identify additional Issues and IT Trends for 2015.	43-44 45-48	Quiz: 3rd Big Data, Social Networking and Business, 3rd Platform Datacenter, Industry Solution Disruptions and new roles and Internet of Things. New Programming languages since 2010	Documented evaluation; Case Study
9	L2, L3	T1: Identify additional Issues and IT Trends for the Home and Busy Executive in 2014.	49-51 52-54	IT Innovations for the Home IT Innovations in the Workplace	Documented evaluation; Case Study
10	L2, L3	T1: Identify additional Issues and IT Trends for the Home and Busy Executive in 2014.	55-57 58-60	IT Innovations in Healthcare and Wellness IT Innovations in Cars and other forms of Transportation	Documented evaluation; Case Study
11	L2,L3,L4	T1: Analyze a given IT Trend.	61-66	Reporting: Individual Research Papers	Individual Research paper
12	L2,L3,L4	T1: Present an evaluation	67-72	Reporting:	Individual

				Individual Research Papers	Research paper
13	L2, L3, L4	T1: Assess the learning gathered of the entire course.	73-78	Final Assessment	Individual Research paper

References:

World Wide Web
Journals & Periodicals
IDC IT Trends Report for 2015

Instructional Strategies: Lecture, Discussion, Quizzes, Case Studies, Research

Grading System:

Cases/Research	15%
Participation	15%
Quizzes	25%
Midterms	15%
Finals: Term Research Paper	30%
Total	**100%**
Passing Mark	**70%**

Software / Hardware Requirements

- Internet connection
- Moodle Access