Course Code	MGT311
Course Name	Emerging Issues in IT Management (Governance, security, privacy, ethics and sustainability)
Credits	4
Course Offered to	UG
Course Description	The objective of course of EIITM covering emerging issues in IT management such as IT Governance, Risk Management, Infrastructure management , Data Privacy, Data Security, Computer Ethics and Sustainability is to appraise students of larger impact of IT from management point of view.. Students will be able to leverage their information technology background to appreciate far reaching consequences of technology so as to address them and make this technology safe , secure and without ill effects. The knowledge gained through this course will bring specialized value proposition for prospective employers. This course will have series of rigorous practice assignments and projects from real industry business cases and will involve extensive hands on exercises dealing with real data, developing tools in labs that can and generating insights from several what-if scenario analysis. Classroom sessions will include course book coverage, discussion of real business case studies and practical assessments

Pre-requisites		
Pre-requisites(Mandatory)	**Pre-requisites(Desired)**	**Pre-requisites(Other)**
None		

Post Conditions			
CO1	**CO2**	**CO3**	**CO4**
Explain and apply the basic principles of IT Management and Governance	Explain and apply Data Privacy , Ethical Legal aspect of IT Management	Explain and manage Issues of Sustainable IT management with models	

Weekly Lecture Plan			
Week Number	**Lecture Topic**	**COs Met**	**Assignment/Labs/Tutorial**
1	Strategic issues in IT management: how IT is changing industry structure due to product digitization, product IT augmentation, and product/service substitution. New issues emerge as physical products increasingly incorporate IT. We will explore various issues involved with cases and new ventures	C01	Learning Diary , case solving
2-3	IT Governance and Risk Management , TOGAF , COBIT Models , How to manage a secure and effiecent IT, Processes and frmawork for implementation	C01	Learning Diary CISA Manual , COBIT 5,

4	IT Process management, Use of ITII Ver 5 Farmework, IT Infrastiture library, Processes and stages of maturity .	C01	Learning Diary , ITIL
5-6	Data security and privacy, Challenges of BIG Data ,Vulnerabilities in public databases, Insider Threats protection against security breaches and data leakage etc. Metric in practice , Security strategies, Reasons to invest in security for "security consumers" ,	C02	Learning Diary , case solving
7	Security cost and benefits , Gordon–Loeb model & extensions , Risk management, Secure software development, patch management, incident management, forensics, maybe identity management	C02	Learning Diary , case solving
8	Data Privacy , Ethics and Legal framwork , EU Data Protection Requirements, Biometric Data – Emerging Law Analytics in the Workplace – Privacy Vulnerabilities , Ransomware and Phishing Attacks Indian IT act 2008 and provisions	C02	Learning Diary , case solving
9	What is Green IT? : An Overview • Understand the overall need for an organisation to adopt a Green IT strategy • Role of IT in greening business processes and practices • Understand the definition of "Green IT". • The key elements involved in Green IT ,	C03	Learning Diary , case solving
10	Greening IT in organization: Data centres • Server utilisation • Data storage • PCs and mobile devices • Office applications and equipment	C03	Learning Diary , case solving

11	Cloud and Green – Where do they meet? Data Center design and Green philosophy. Technology Convergence and its impact in Green	C03	Learning Diary , case solving ,
12	IT Impact for Social transfiormation, Digital Divide, Digital democarcy , Use and Mis Use of Social Media in democratic process	C03	Learning Diary , case solving
13	Poject presentation by groups on the assignment on EIITM	C03, C02, C01	Presentation

Weekly Lab Plan

Week Number	Laboratory Exercise	COs Met	Platform (Hardware/Software)
4	Assignment: Project Charter presentation	C01	PC, CPP
6	Assignment: NP cutting Assignement	C02	PC, CPP, SystemC
10	Assignment:Case presentaion	C02, C03	PC, CPP, SystemC
13	Project Presntation, Live Demo	C01, C02, C03	PC, CPP, SystemC

Assessment Plan

Type of Evaluation	% Contribution in Grade
Assignments	20
Mid Term Exam	20
(Surprise) Tests	10
Project presntation + Group case presentaion	10+10=20
Final End term Exam	30

Resource Material

Type	Title
Book	IT Governance: How Top Performers Manage IT Decision Rights for Superior Results Kindle Edition by Peter Weill (Author), Jeanne W. Ross
Book	Implementing Effective IT Governance and IT Management Paperback – 24 Feb 2015 by Gad J. Selig (Author), Van Haren Publishing
Book	IT Strategy and Management , Sanjiva Shanakr Dubey PHI learning
Book	Dawn of the Code War: America's Battle Against Russia, China, and the Rising Global Cyber Threat John P. Carlin (Author), Garrett M. Graff (Author), Kevin Stillwell (Narrator), Hachette Audio (Publisher)