

M.L. Dahanukar College of Commerce

Teaching Plan: 2017 – 18

Department: I.T.

Class: M.Sc.(I.T.)

Semester:III

Subject: Embedded Systems

Name of the Faculty: Nikhil K Pawanikar

Month	Topics to be Covered	Internal Assessment	Number of Lectures
June	Ch 1 . Introduction Ch 3 Characteristic and quality attributes of Embedded System Ch 15 Embedded product development life cycle Ch 16 Trends in the Embedded Industry		08
July	Ch 2 The Typical Embedded System Ch 7 Hardware Software Co-design and Program Modelling Ch 8 Embedded Hardware design and development		08
August	Ch 9 Embedded Firmware design and development Ch 10 Real Time Operating System(RTOS) Ch 17 Introduction of PIC Family of Microcontrollers, Introduction of ARM Family of Microcontrollers,		08
September	Ch 4. Book 2 Memories and Memory Subsystem Ch 5 Book 3 .Programming Concept and Embedded Programming in C/C++ and Java		08
October			
November	Practicals 1-5	Unit Test 30 M	08
December	Practical 6-9		08

Sign of Faculty

Sign of Coordinator

P.T.V.A.'s
M.L.Dahanukar College of Commerce

Teaching Plan: 2017 – 18
Department: Information Technology

Class: M.Sc. (I.T.) – Semester III

Subject: Information Security Management

Name of the Faculty: Navneet Kaur Nagpal

Month	Topics to be Covered	Number of Lectures
August	Security risk management, Reactive approach, proactive approach, quantitative and qualitative approach, Octave, Cobit approach, Risk assessment	08
September	Network security management, firewall, IDS, IPS, IDPS, Kerberos, password management, key management, access control models, role based models, web and wireless security management, technical controls, authentication, confidentiality, server configuration guidelines, symmetric key, asymmetric key, VPN	20
October	Public key infrastructure, PKI Applications, S/MIME, PGP, log management, malware handling, vulnerability management, specifying and enforcing security policies	20
November	Auditing, business continuity planning, disaster recovery, backup and recovery techniques, computer forensics, forensic science, forensic process, file systems, NESSUS, NMAP, Information security standards, ISO 17799, Legal and ethical issues	12

Sign of Faculty

Sign of Coordinator

M.L. Dahanukar College of Commerce

Teaching Plan: 2017 - 18

Department: I.T.

Class: M.Sc.(I.T.)

Semester: III

Subject: Artificial Neural Network

Name of the Faculty: Shraddha Kadam

Month	Topics to be Covered	Internal Assessment	Number of Lectures
September	The Brain Metaphor, Basics of Neuroscience, Artificial Neurons, Neural Networks and Architectures		8
October	Geometry of Binary Threshold Neurons and Their Networks , Supervised Learning I: Perceptrons and LMS, Supervised Learning II: Backpropagation and Beyond		20
November	Neural Networks: A Statistical Pattern Recognition Perspective , Statistical Learning Theory, Support Vector Machines and Radial Basis Function Networks		20
December	Dynamical Systems Review, Attractor Neural Networks, Adaptive Resonance Theory, Towards the Self-organizing Feature Map, Fuzzy Sets and Fuzzy Systems , Evolutionary Algorithms		20

Sign of Faculty

Sign of Coordinator

M.L. Dahanukar College of Commerce

Teaching Plan: 2017 - 18

Department: I.T.

Class: M.Sc.(I.T.)

Semester:III

Subject: ETHICAL HACKING

Name of the Faculty:LARISSA PEGADO

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Introduction to Ethical Hacking, Footprinting and Reconnaissance, Scanning Networks, Enumeration.		12
August	System Hacking, Trojans and Backdoors, Viruses and Worms, Sniffing. Social Engineering, Denial of Service		18
September	Session Hijacking, Hacking Webserver. Hacking Web Applications, SQL Injection, Hacking Wireless Networks, Hacking Mobile Platforms.	Internal Test 1	18
October	Evading IDS, Firewalls and Honeypots, Buffer Overflows, Cryptography, Penetration Testing.	Internal Test 2	12

Sign of Faculty

Sign of Coordinator