

M.L. Dahanukar College of Commerce

Teaching Plan: 2018 - 19

Department: I.T.

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

Semester:III

Subject: Artificial Neural Network

Name of the Faculty: Ms.Sheetal Panchal

Month	Topics to be Covered	Internal Assessment	Number of Lectures
June	The brain Metaphor, Basic of neuroscience ,Artificial neural network and architecture	01	07
July	Geometry of binary Threshold neurons and their networks ,supervised learning I ,perceptrons and LMS and supervised learning II: Backpropogation and beyond	01	07
August	Neural network : Statically pattern reorganization perceptive ,statically learning theory, support vectors machines and redial basic function network	01	07
September	Dynamic system review ,Attractor neural network, Adaptive resonance theory	01	07
October	Towards the self organizing features maps ,fuzzy sets and fuzzy system ,Evolutionary Algorithms	01	07

Sign of Faculty

Ms.Sheetal Panchal

Sign of Coordinator

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Semester:III

Subject: ETHICAL HACKING

Name of the Faculty:LARISSA PEGADO

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

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Teaching Plan: 2018- 19

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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
August	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 Prac 1 & 2	Unit Test	15
Sept	Ch 2 The Typical Embedded System Ch 7 Hardware Software Co-design and Program Modelling Ch 8 Embedded Hardware design and development Prac 3, 4 & 5		15
Oct	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, Prac 6, 7 & 8		15
Nov	Ch 4. Book 2 Memories and Memory Subsystem Ch 5 Book 3 .Programming Concept and Embedded Programming in C/C++ and Java Prac 9		15

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M.L.Dahanukar College of Commerce

Teaching Plan: 2018 – 19

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
September	Security risk management, Reactive approach, proactive approach, quantitative and qualitative approach, Octave, Cobit approach, Risk assessment	08
October	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
November	Public key infrastructure, PKI Applications, S/MIME, PGP, log management, malware handling, vulnerability management, specifying and enforcing security policies	20
December	Auditing, business continuity planning, disaster recovery, backup and recovery techniques, computer forensics, forensic science, forensic process, file systems, NISSUS, NMAP, Information security standards, ISO 17799, Legal and ethical issues	12

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