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COURSE REPORT

1	Subject Code	14IT2B0
2	Subject Name	Secure Network Management
3	No. of Students Participated	60 Nos.
4.	Name & Organization of the Resource Person	Mr. Manigandan S, Symantec Corporation
5.	Date and Duration of the	29, 30 September & 1,2 October, 2017
J.	Programme	& 4 - Days Programme.
6.	Objective of the Course	This course provides the fundamental knowledge to analyze risks to the system and implement a workable security policy that protects the information assets from potential intrusion, damage or theft. Topics include secure routing and switching, Firewall technologies, VPN Technology, Intrusion Prevention/Detection systems.
6.	Contents covered in Day 1	Fundamentals of Network Security: Objectives - Cost benefit analysis - Classifying Assets, Vulnerabilities, Countermeasures - Recognizing Network Threats - Applying Security Principles to Network Design - Good security practices - Security methodology. Securing Networking Devices: Authentication and Authorization controls - Accounting - Logging files - NTP.
7.	Contents covered in Day 2	Secure Routing and Switching: Network design considerations - Network Hardening. Secure routing infrastructure - Secure Switching Infrastructure (VLAN, STP & Port security) - IP Spoofing prevention - DHCP Snooping - Dynamic ARP Inspection.
8.	Contents covered in Day 3	Firewall Technologies: Objectives - Justifications - The Defense-in-Depth Approach - Methodologies - NAT. Firewall Technologies - Design Considerations - Access Rules - Packet-Filtering Access Rule Structure - Rule Design Guidelines - Rule Implementation Consistency.

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COURSE REPORT

		VPN Technology: Types - Benefits - Protocols -
	Contents covered in Day 4	Vulnerabilities and Threats - IPsec and SSL - PKI - IP
		Security. IPSec site to site VPNs: Planning and Preparing -
		Implementing and Verifying - Troubleshooting. Remote access
		VPN Services.
9.		Intrusion Prevention/Detection System (IPS/IDS): Types -
J.		Detection Models - Features - Deployment considerations.
		IPS Versus IDS: What Sensors Do - Difference Between IPS
		and IDS - Sensor Platforms - True/False Negatives/Positives -
		Positive/Negative Terminology. Identifying Malicious Traffic on
		the Network - Managing Signatures - Monitoring and
		Managing Alarms and Alerts.
	Outcomes of the Course	Students able to,
		Infer the need of security for network management.
10.		Identify the preventive measures to secure routing and
10.		switching.
		Examine the design of firewall, VPN and IDS / IPS for
		the given network.
	Name and Address of the	Mr. S. Manigandan, Symantec, Chennai
11.	expert	sendmanigandan@gmail.com
12.	Financial Support Availed	Yes, Rs.29,208/-
14.	i mandai Support Availeu	163, 113.28,200/-

Forwarded to the Dean (TL &FD)

Signature of the Coordinator

Prof. & Head, Dept. of IT

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REPORT

ONE DAY STUDENT WORKSHOP

	Workshop On	"Web Service Standards and REST APIs"
2	Subject Name	One Day student Workshop on Webservices
3	No. of Students Participated	112
2	Name & Organization of the Resource Person	Mr. Aswin Vairavan, Founder and CEO, Deducely Ltd, Madurai.
5.	Date and Doration of the Programme	22.09.17 & 1 - Day Programme.
6.	Objective of the Course	This Course will provide an insight about Web Services and REST APIs. After Completion of the course individual can able develop write a simple web service and convert it into a back-end restful service.
7.	Contents covered for FN Session	Deconstructing the web, HTML Source code of Web, Tools to Analyze HTTP Requests, Source Control GIT.
8.	Contents covered for AN Session	Web servers Focus on Apache and nginx File Servers Time Servers DB Servers Introduction to NodeJS Understanding async nature of nodejs Simple app in nodejs. Protection and Security XSS, CSRF, SQL injection, Url manipulation, Fake request, assison Hijacking, remote system execution, cookie visibility, File Upload abuse, DOS.
4.	Outcomes of the Course	Students able to. Understand the web and its components—server, clients (A human and Machine perspective). Understand what happens in the backend of an application. Understand the MVC framework Write a simple server in NodeJS Evaluation of a language / DB and choosing what is best for the application. Write a Simple Web Service and Convert back-end into a restful service.
10	Expenses	NIL

Signature of the Coordinator

Head, Dept. of I



Research and Development formats

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Workshop Organized report

1	Name & Designation of Staff Member	T.Manju, Assistant Professor
-	Title of the programme	Two day workshop on "Virtual Reality
		Applications in Cognitive Science"
3	Date and duration of the programme	27 &28 September 2017 (2 days)
4	Name and address of the Organizer(s)	Department of Information Technology
5	Name of the Co-ordinator(s)	T.Manju, Dr.D.Tamilselvi
6	Nature of participation	Coordinator
7	Programme coverage (List the major	Virtual Reality, Augmented Reality
	topics/areas)	Demonstration of applications in Virtual
		Reality
8	Name & address of the experts	Mr.Ajith, Mr.Joshy, Mr.Sasi Kumar,
	contacted/interacted/met at the programme	Kewaunee Labway India Pvt Ltd., Bangalore
9	Benefits of the Programme	Gain the practical Knowledge on virtual reality
10	Details of the Documents/Proceedings	NIL
	submitted to the department library	
11	Suggestion for follow up:	UG students training at their industry premises,
	Introduction of new	PG Student Internship - 2
	subjects/experiments/laboratories/organization	
	of courses/conferences/training	
12	Financial support availed/	
	Sanctioned	Rs.26000/-

Signature of the Candidate

Head of the Department

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COURSE REPORT

Subject Code	14IT1RO
Subject Name	Mobile Application Test Automation
No. of Students Participated	53 Nos.
Name & Organization of the Resource Person	Mr.P.Arun Kumar, Zebra Technologies, Bengaluru.
Date and Duration of the Programme	10 - 11 March, 2018 & 2 - Days Programme.
Objective of the Course	The course provides knowledge and skill on mobile application testing through UI Automator libraries with the Robot test automation framework.
Outcomes of the Course	 Students able to, Develop apps and test using the framework Apply test automation for the given app Practice the app testing for the given set of code

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COURSE REPORT

1	Subject Code	14IT1M0
2	Subject Name	One credit course on Augmented Reality
3	No. of Students Participated	55 Nos.
4.	Name & Organization of the Resource Person	Mr.Utkarsh Mankad,CDAC, Bangalore.
5.	Date and Duration of the Programme	24 th & 25 th March 2018, 2 - Days Programme.
6.	Objective of the Course	This Course will provide an up-to-date view on augmented reality and its application development. Emphasis will be given for developing mobile apps on augmented reality and also to give exposure on app development using Unity.
7.	Contents covered in Day 1	Augmented Reality – Definition – Types – Context – Content – Types – Merge Context with Content – Application – Research Issues.
8.	Contents covered in Day 2	Unity – AR Mobile app Creation - Creation of content – Linking with Context - Animation – Virtual Buttons
9.	Outcomes of the Course	 Students able to, Describe the features and components of Unity Explain the various ways for AR mobile app development Explore the technologies that will support AR mobile app development
10	Expenses	Rs.24000/-

Signature of the Coordinator

Head, Dept. of IT