Spring 1-1-2020

CPT 335-102: Network Applications for Computer Technology I

Tushar Patel

RCPT 335: Networks Applications for Computer Technology I
Spring 2020

Instructor: Tushar Patel

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Class Hour: Wednesday's 5:45PM – 9:30PM PCMALL 37

Office Hours: Wednesday's 5:00PM -5:45PM by appointment

Text Book: **(Optional**) CCNA Routing & Switching 200-125 Official Cert Guide Library – Wendell Odom
Published Jul 26, 2016 by Cisco Press. ISBN-13: 978-1587205811, ISBN-10: 1587205815

Grading: Midterm Exam 25%, Final Exam 30%, Project 25%, Assignments 10%, Participation 10%

Assignments: The due date for the assignments is one week after it is assigned. Grades will be deducted for delay or may not be accepted.

Course Objectives:

Students will learn about Computer Network Fundamentals including LAN Switching, Routing, WAN Technologies. In Addition, they will be exposed to Infrastructure Services, Security and Management use cases.

Important Dates Fall 2019:

January	22	Wednesday	First Day of Class
January	31	Friday	Last Day to Add/Drop a Class
January	31	Friday	Last Day for 100% Refund, Full or Partial Withdrawal
February	1	Saturday	W Grades Posted for Course Withdrawal
February	3	Monday	Last Day for 90% Refund, Full or Partial Withdrawal
February	17	Monday	Last Day for 50% Refund, Full Withdrawal
March	9	Monday	Last Day for 25% Refund, Full Withdrawal
March	15	Sunday	Spring Recess Begins - No Classes Scheduled - University Open
March	22	Sunday	Spring Recess Ends
April	6	Monday	Last Day to Withdraw
May	5	Tuesday	Last Day of Classes
May	6	Wednesday	Reading Day 1
May	7	Thursday	Reading Day 2
May	8	Friday	Final Exams Begin
May	**13**	**Wednesday**	**Final Exam CPT 335**
May	16	Thursday	Final Exams End
May	18	Saturday	Final Grades Due

Lectures: Order of topics subject to change depending on class requirements

Week 1 January 22rd	Networking Basics, HTML/HTTP, OSI Ref. Model
Week 2 January 29th	Decimal/Binary/Hex Conversion, IP Addressing and Subnetting
Week 3 February 5th	IP Subnetting review, Ethernet and TCP/IP Technology
Week 4 February 12th	Network Applications
Week 5 February 19th	LAN/WAN Technologies and Network Topology
Week 6 February 26th	**Midterm Review**
Week 7 March 4th	**Midterm Exam**
Week 8 March 11th	LAN Switching Concepts
March 18th	**NO CLASS - SPRING BREAK**
Week 9 March 25th	Extending LANs
Week 10 April 1rd	Network Redundancy
Week 11 April 8th	WAN Technologies and Static Routing
Week 12 April 15th	IOT – Group Final Project Introduction
Week 13 April 22th	Final Project – Open Lab Time
Week 14 April 29st	Final Project and Presentation Due from All Teams Final Review
Week 15 May 6th	Reading Day- No Class
Week 16 May 13th	**Final Exam (This will be a 2-hour Lab to Complete)**

Labs: Order of topics subject to change depending on class requirements

Week 1 January 22rd	Packet Tracer Account Registration, HTML/HTTP, Peer to Peer Network
Week 2 January 29th	Cisco Router Overview, CLI, IOS Navigation and User Modes
Week 3 February 5th	Setting up a small network – Router, Switch and PC communication
Week 4 February 12th	Configuring Interfaces for Communication Part 1
Week 5 February 19th	Configuring Interfaces for Communication Part 2
Week 6 February 26th	**Midterm Review**
Week 7 March 4th	**Midterm Exam**
Week 8 March 11th	Lan Switching configuration
March 18th	**NO CLASS - SPRING BREAK**
Week 9 March 25th *	Packet Tracer Lab- Configure Medium Network to Access a Web Server
Week 10 April 1rd *	Network Redundancy
Week 11 April 8th	Static Route Configuration
Week 12 April 15th	IOT
Week 13 April 22th	Final Open Project Lab Time
Week 14 April 29st	Final Project and Presentation Due from All Teams Final Review
Week 15 May 6th	Reading Day – No Class
Week 16 May 13th	**Final Exam (This will be a 2 hour Lab to Complete)**

Statement on academic integrity:

"Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf.

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. ***Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.*** *If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu"*