

Data Communications and Networking I

2018-19 Academic Year

Program	Year	Semester
BITM-Computer Foundations Certificate	1	1
BITM-Computer Programmer Diploma	1	1
BITM-Computer Systems Technician Diploma	1	1
BITM-Computer Systems University Transfer to UOIT Bachelor of IT (Hons) Diploma	1	1
BITM-Computer Programmer Analyst Advanced Diploma	1	1
BITM-Computer Systems Technology Advanced Diploma	1	1

Course Code:	DCOM1100 Cou	ırse Equiv. Code(s):	DCOM 1150
Course Hours:	56 Cou	rse GPA Weighting:	4
Prerequisite:	N/A		
Corequisite:	N/A		
Laptop Course:	Yes X No		
Delivery Mode(s	s): In class X Online H	ybrid Corres	pondence
Authorized by (I	Dean or Director): Marianne Mara	ndo E	Date: July 2018

Prepared by			
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Course Description:

DCOM1100 is the first of four courses that helps prepare the student towards many of the objectives of the Cisco Certified Network Associate (CCNA) accreditation. This course provides students with a knowledge of the principles and topologies used in data communications today by instructing students in introductory network concepts, network devices and protocols. Current market analysis indicates networking and more specifically internetworking is in very large demand. From corporations to small office sites and even into "smart" homes there is a growing need to interconnect computerized equipment. This course gives programming students a base knowledge in networking and prepares systems students to continue their network systems education in the DCOM 2100 course in semester 2.

Subject Eligibility for Prior Learning Assessment & Recognition (PLAR):

Prior Learning Assessment and Recognition (PLAR) is a process a student can use to gain college credit(s) for learning and skills acquired through previous life and work experiences. Candidates who successfully meet the course learning outcomes of a specific course may be granted credit based on the successful assessment of their prior learning. The type of assessment method (s) used will be determined by subject matter experts. Grades received for the PLAR challenge will be included in the calculation of a student's grade point average.

The PLAR application process is outlined in http://www.durhamcollege.ca/plar. Full-time and part-time students must adhere to all deadline dates. Please email: PLAR@durhamcollege.ca for details.

PLAR Eligibility

Yes X	No
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PLAR Assessment (if eligible):

	Assignment
	Exam
X	Portfolio
X	Other

Students eligible for PLAR evaluation for this course must have significant applicable industry experience and/or current relevant industry certification. At the Professor's discretion, students may still be required to complete theoretical and/or practical evaluation as part of the PLAR. These practical or theoretical evaluations must ensure that the Course Learning Outcomes are achievable by the student.

Course Learning Outcomes

Course Learning Outcomes contribute to the achievement of Program Learning Outcomes for courses that lead to a credential (e.g. diploma). A complete list of Vocational/Program Learning Outcomes and Essential Employability Skill Outcomes are located in each Program Guide.

Course Specific Learning Outcomes (CLO)

Student receiving a credit for this course will have reliably demonstrated their ability to:

- CLO1 Describe the devices and services used to support communications in data networks found in small to medium business environments according to current industry standards
- CLO2 Describe the role of protocols as they are associated with the layers of the OSI and TCP/IP Models in data networks found in small to medium business environments according to current industry standards
- CLO3 Describe the importance of addressing and naming schemes at various layers of data networks in IPv4 and IPv6 environments in keeping with industry best practices
- CLO4 Apply subnet masks and addresses to fulfill given requirements in IPv4 and IPv6 networks found in small to medium business environments in keeping with industry best practices
- CLO5 Build a simple Ethernet network using routers and switches as would be found in a small to medium business environment utilizing current technologies and techniques
- CLO6 Use Cisco command-line interface (CLI) commands to perform basic router and switch configurations for a small to medium sized business environment according to current industry standards

Essential Employability Skill Outcomes (ESSO)

This course will contribute to the achievement of the following Essential Employability Skills:

- X EES 1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.
- X EES 2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.
- EES 3. Execute mathematical operations accurately.
- EES 4. Apply a systematic approach to solve problems.
- EES 5. Use a variety of thinking skills to anticipate and solve problems.
- X EES 6. Locate, select, organize, and document information using appropriate technology and information systems.
- EES 7. Analyze, evaluate, and apply relevant information from a variety of sources.
- EES 8. Show respect for the diverse opinions, values, belief systems, and contribution of others.
- X EES 9. Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
- EES 10. Manage the use of time and other resources to complete projects.
- EES 11. Take responsibility for one's own actions, decisions, and consequences.

Evaluation Criteria:

The Course Learning Outcomes and Essential Employability Skills Outcomes are evaluated by the following evaluation criterion.

Evaluation Description	Course Learning Outcomes	EESOs	Weighting
Journal	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6	EES1, EES6	10
Module exams	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6	EES1, EES2, EES6	10
Labs	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6	EES1, EES2, EES6, EES9	40
Midterm (ex. assignment/project/test)	CLO1, CLO2, CLO3, CLO4	EES1, EES2, EES6	15
Cable Making (5 cables, minimum 4 straight through)	CLO5	EES6	5
Final (ex. project/practical)	CLO2, CLO4, CLO5, CLO6	EES1, EES2, EES6	20
Total			100%

Notes:

- 1. Any projects requiring a presentation must be handed in to the Professor a minimum of 48 hours prior to the presentation in electronic format. It must contain all the items in the presentation, including any presentation notes. Content marks will be based on the pre-presentation electronic submission.
- 2. If a project evaluation requires booking a test time with the professor, it is up to the student to book the time at least 3 days prior to the beginning of the evaluation period. Due dates and times of evaluations will be announced in class and posted on DC Connect at least a week in advance of the beginning of the evaluation period. If changes to the evaluation period are required, students will be notified in writing as soon as possible.
- 3. Submissions must be of professional quality and use proper APA document formatting as well as in-line and References page citations.
- 4. Assignments are due by the due date assigned in class and posted on DC Connect. At his or her own discretion and depending on the nature of the assignment, each Professor will provide a facility for the submission of late assignments up to a maximum of 72 hours after the assignment due date. All allowed late submissions will be assessed a penalty of 25% of the total possible grade for the assignment, regardless of the number of hours late up to but not beyond 72 hours. Assignments should be submitted on time, on a regular basis, to enable you to stay on track within the class.
- 5. All assignments will be marked and returned within 10 days after the due date of each assignment as posted on DC Connect.
- 6. All marks are conditional upon final review by the Professor at the end of the course, at which time marks may be changed if conditions dictate. Conditions that may dictate a change include academic integrity issues, among other things.
- 7. All tests and exams are considered as copyright material. Students will not copy (in any manner) the material presented in a test or a practice test. Failure to observe this will result in a zero (0) on a test or possible expulsion from the class. See the Student Handbook regarding Academic Honesty.
- 8. Plagiarism is a serious breach of the College's Academic Integrity policy. That policy, defined in ACAD-101 and the accompanying procedure, defined in ACAD-101-1 will be enforced on any students involved in incidents of plagiarism, of any type. This could include any or all of the following: a mark of zero on an evaluation, a mark of zero in the course, non-admittance to a course or program, withdrawal from a course, or dismissal from the college. In all cases, a formal Academic Alert will be issued that will document the infraction that has taken place, notification will be given to the Dean/Associate Dean and a record will be placed in the student's file.
- 9. QUIZZES: Quizzes are scheduled from time to time either at the professor's discretion, or as dictated in the course outline. Quizzes are conducted online either in-class or outside the class time, during a pre-determined window of availability. Once a student begins a quiz, they will have a limited amount of time to complete it

before submission is forced and beyond the control of the student. If a student is absent when the quiz is assigned, he/she will receive a mark of "0" for that quiz. Missed Tests

Tests must be written during the scheduled test time. To reflect established practice in the workplace and demonstrate responsibility, students are required to contact their professor 48 hours Prior to an assignment if there is a known conflict, or 24 hours after of the test if unable to be in attendance for a test. Voicemail messages and email messages are an acceptable form of contact. A failure to comply will result in a mark of zero for that test. Students can expect to provide a reasonable explanation for their missed test, and faculty will have discretion regarding the eligibility and granting of the request to complete the missed test.

Given compliance with point one of this section, the professor will determine how the weighting of a missed test will be applied.

TEST(S): Tests can be both theoretical and practical. The practical aspect of the student's work will be evaluated by means of lab assignments and or testing, verbal or written during said lab assignments. Tests must be written during the scheduled test time in the room designated by the instructor. There will be no "make up" tests, a student cannot present alternative or replacement work as a substitute except as explained in the next paragraph.

Missed Final Evaluations (that are not tests)

Final evaluations must be completed at their scheduled time or submitted on their due date. If students are unable to comply with that date, they must contact their professors within 24 hours of the date. Voicemail messages and email messages are an acceptable form of contact. A failure to comply will result in a mark of zero for the final evaluation. Students can expect to provide a reasonable explanation for their missed evaluation, and faculty will have discretion regarding the eligibility and granting of the request to complete the missed evaluation.

Given compliance with point one, the student may be permitted to complete the evaluation at a later date. Students will work directly with their faculty to arrange a suitable time/date if applicable.

Required Text(s) and Supplies:

Recommended Resources (purchase is optional):

N/A

Policies and Expectations for the Learning Environment:

General Policies and Expectations:

General College policies related to	General policies related to
+ Acceptable Use of Information Technology	+ attendance
+ Academic Policies	 absence related to tests or assignment due dates
+ Academic Honesty	+ excused absences
+ Student Code of Conduct	+ writing tests and assignments
+ Students' Rights and Responsibilities can be found on-line at http://www.durhamcollege.ca/academicpolicies	 classroom management can be found in the Program Guide (full time programs only) in MyCampus http://www.durhamcollege.ca/mycampus/

Course Specific Policies and Expectations:

Course Specific Policies and Expectations:

In order for this course to be successful, the following is expected:

1. All class work is expected to be done individually unless specifically stated by the Professor. Groups may be assigned or modified by the Professor, randomly assigned, or determined by the students at the discretion of the Professor. All team members will be expected to contribute equally to the assignments and will be responsible for their individual work.

2. Students are expected to visit and use DC Connect on a regular basis. DC Connect is the primary means of communications between the Professor and the student for all course related materials. Assignments that require electronic file submissions must be submitted via Dropbox/Turnitin or attached to the appropriate discussion box forums, at the Professor's discretion, and not submitted through email.

3. One of the primary goals of our Professors is to maintain the learning environment and electronic distractions can be disruptive to students as well as Professors. It is asked that all students assist with maintaining a productive learning environment for all by turning off or muting any cell phones, pagers, and electronic devices (including e-chat programs). Students are expected to abide by the Acceptable Use Policy for all labs and lab equipment.

4. Marks are not given for attendance, however, marks may be given for participation, contribution to group work, or inclass labs and an opportunity to make up these marks will not be provided. To be successful in this class, it is expected that students will attend all in-person classes and complete all assigned work in a timely and professional manner.

Laptop Policies and Expectations:

1. The student's laptop is expected to be in working condition for all classes/labs. There will be times during a session that the laptop is not required. When asked, the student is expected to close their laptop until instructed to open it again.

2. Computer gaming, chatting and other distractions will not be tolerated during class/lab. Any student participating in the same will be asked to leave the classroom for the remainder of the class/lab and will be recorded as absent for that class/lab. Students are to view, understand and abide by the Acceptable Use Policies as posted on DC Connect. Strict compliance with these policies is required at all times. Any violation of these policies will result in expulsion from the lab/class and disciplinary actions as deemed by the Associate Dean/Dean.

3. Inappropriate desktop background or screen savers will not be tolerated in accordance with the acceptable use policies.

General Course Outline Notes:

- 1. Students should use the course outline as a learning tool to guide their achievement of the learning outcomes for this course. Specific questions should be directed to their individual professor.
- 2. The college considers the electronic communication methods (i.e. DC Mail or DC Connect) as the primary channel of communication. Students should check the sources regularly for current course information.
- 3. Professors are responsible for following this outline and facilitating the learning as detailed in this outline.
- 4. Course outlines should be retained for future needs (i.e. university credits, transfer of credits etc.)
- 5. A full description of the Academic Appeals Process can be found at http://durhamcollege.ca/gradeappeal.
- Faculty are committed to ensuring accessible learning for all students. Students who would like assistance with academic access and accommodations in accordance with the Ontario Human Rights Code should register with the Access and Support Centre (ASC). ASC is located in room SW116, Oshawa Campus and in room 180 at the Whitby Campus. Contact ASC at 905-721-3123 for more information.
- 7. Durham College is committed to the fundamental values of preserving academic integrity. Durham College and faculty members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that by taking this course all assignments could be subject to submission either by themselves or by the faculty member for a review of textual similarity to Turnitin.com. Further information about Turnitin can be found on the Turnitin.com Web site.

Learning Plan

The Learning Plan is a planning guideline. Actual delivery of content may vary with circumstances.

Students will be notified in writing of changes that involve the addition or deletion of learning outcomes or evaluations, prior to changes being implemented, as specified in the Course Outline Policy and Procedure at Durham College.

Wk.	Hours: 4 Delivery: In Class							
1	Course Learning Outcomes							
	CLO1, CLO2							
	Essential Employability Skills							
	EES1, EES2, EES6							
	Intended Learning Objectives							
	Review course outline; Discuss journal requirements and module exam completion;							
	Globally Connected; LANs, WANs, and the Internet;							
	The Network as a Platform; The Changing Network Environment							
	Rules of Communication;							
	Data Transfer in the Network;							
	Intended Learning Activities							
	Lab exercise & active learning							
	Journal documentation							
	Modules 1 & 3 exams							
	Resources and References							
	Instructor Notes and Slideshow Cisco NetAcad: Introduction to Networks: modules 1 & 3							
	Lab environment							
	DC Connect							
	Journal							
	Evaluation	Weighting						

Wk.	Hours:	4	Delivery:	In Class	
2	Course L	earning Ou	itcomes		
	CLO1, 0	CLO2			
	Essentia	l Employab	ility Skills		
	EES1, E	EES2, EES6	, EES9		
	Intended	Learning C	Objectives		
	Globally LANs, V The Net The Cha Rules o Network Data Tra	Connected VANs, and the work as a P anging Netw f Communic Communic Controcols a ansfer in the	; he Internet; latform; ׳ork Environm ation; and Standards • Network;	nent; s;	
	Intended Learning Activities				
	Lab exe Discuss Journal Modules	ercise & activ ion documentat s 1 & 3 exan	ve learning ion ns		
	Resources and References				
	Instructo Cisco N Lab env Laptop DC Con Journal	or Notes and etAcad: Intro vironment and Internet inect	d Slideshow oduction to N	etworks: modules 1 & 3	
	Evaluatio Module Lab der week 1 Journal	on exam nonstration a (40% ongoir marked - co	& discussion - ng) mpleted wee	Weighting 50% ongoing - knowledge of content covered in k 1 documentation (10% ongoing)	

Wk.	Hours: 4 Delivery: In Class
3	Course Learning Outcomes
	CLO1, CLO2
	Essential Employability Skills
	EES1, EES2, EES6, EES9
	Intended Learning Objectives
	Globally Connected; LANs, WANs, and the Internet; The Network as a Platform; The Changing Network Environment; Rules of Communication; Network Protocols and Standards; Data Transfer in the Network;
	Intended Learning Activities
	Lab exercise & active learning Discussion Journal documentation Modules 1 & 3 exams
	Resources and References
	Instructor Notes and Slideshow Cisco NetAcad: Introduction to Networks: modules 1 & 3 Lab environment Laptop and Internet DC Connect Journal
	Evaluation
	Module exam Lab demonstration & discussion - knowledge of content covered in week 2
	Journal marked - completed week 2 documentation

Wk.	Hours:	4	Delivery:	In Class
4	Course Le	arning Ou	tcomes	
-	CLO3, CL	_04		
	Essential I	Employabi	lity Skills	
	EES1, EE	ES2, EES6,	EES9	
	Intended L	earning O	bjectives	
	IPv4 Netv IPv6 Netv Connectiv Subnettin Addressir Design C	vork Addre vork Addre vity Verifica g an IPv4 I ng Scheme onsideratio	sses; sses; tion; Network; s; ns for IPv6;	
	Intended L	.earning A	ctivities	
	Lab exerc Discussio Journal d Modules	cise & activ on ocumentati 7 & 8 exarr	e learning on ıs	
	Resources and References			
	Instructor Cisco Net Lab envir Laptop ar DC Conn Journal	Notes and tAcad: Intro onment nd Internet ect	Slideshow oduction to N	etworks: modules 7 & 8
	Evaluation	l xam		
	Lab demo	onstration &	discussion	- knowledge of content covered in
	Journal m	narked - co	mpleted wee	k 3 documentation

Wk.	Hours: 4 Delivery: In Class	
5	Course Learning Outcomes	
5	CLO3, CLO4	
	Essential Employability Skills	
	EES1, EES2, EES6, EES9	
	Intended Learning Objectives	
	IPv4 Network Addresses; IPv6 Network Addresses; Connectivity Verification; Subnetting an IPv4 Network; Addressing Schemes; Design Considerations for IPv6;	
	Intended Learning Activities	
	Lab exercise & active learning Discussion Journal documentation Modules 7 & 8 exams	
	Resources and References	
	Instructor Notes and Slideshow Cisco NetAcad: Introduction to Networks: modules 7 & 8 Lab environment Laptop and Internet DC Connect Journal	
	Evaluation Module exam	
	Lab demonstration & discussion - knowledge of content covered in	
	Journal marked - completed week 4 documentation	

Wk.	Hours: 4 Delivery: In Class						
6	6 Course Learning Outcomes CLO1, CLO2, CLO3, CLO4						
	Essential Employability Skills						
	EES1, EES2, EES6						
	Intended Learning Objectives						
	Practice IP Subnetting; Summary of content from weeks 1-5;						
	Intended Learning Activities						
	Lab exercise & active learning Discussion Journal documentation Midterm (ex. assignment/project/test)						
	Resources and References						
	Instructor Notes and Slideshow Cisco NetAcad: Introduction to Networks curriculum Lab environment Laptop and Internet DC Connect Journal						
	Evaluation	Weighting					
	week 5 Journal marked - completed week 5 documentation Midterm (Modules 1, 3, 7 & 8)	1070					

Wk.	Hours:	4	Delivery:	In Class					
7	Course L	Course Learning Outcomes							
	CLO2, CLO5								
	Essentia	Essential Employability Skills							
	EES1, EES2, EES6, EES9								
	Intended Learning Objectives								
	Practice	IP Subnetti	ng; acols:						
	Network	Media;							
	Media A	ccess Contr	rol;						
	Intended Learning Activities								
	Lab exercise & active learning								
	Journal	ion documentat	ion						
	Module	4 exam							
	Resource	es and Refe	erences						
	Instructo	or Notes and	l Slideshow	letworks: module 4					
	Lab env	ironment							
	Laptop and Internet DC Connect								
	Journal								
	Evaluatio	on		Weighting					
	Module Cable M	exam laking (minir	num 5 cables	5% s, minimum 4 straight through)					

Wk.	Hours:	4	Delivery:	In Class					
8	Course Learning Outcomes								
	CLO2, CLO4, CLO5, CLO6								
	Essential	Essential Employability Skills							
	EES1, EES2, EES6, EES9 Intended Learning Objectives								
	Practice IP Subnetting; Introduction to using physical equipment; IOS Bootcamp; Basic Device Configuration;								
	Intended Learning Activities								
Lab exercise & active learning Discussion Journal documentation Module 2 exam									
	Resources and References								
	Instructo Cisco Ne Lab envi Laptop a DC Conr Journal	r Notes and etAcad: Intro ronment nd Internet nect	Slideshow duction to N	etworks: module 2					
	Evaluatio Module e Lab dem week 7 Journal r	n exam onstration & narked - cor	discussion	- knowledge of content covered in k 7 documentation					

Wk.	Hours:	4	Delivery:	In Class				
q	Course Learning Outcomes							
	CLO2, C	LO4, CLO5,	CLO6					
	Essential Employability Skills							
	EES1, EES2, EES6, EES9 Intended Learning Objectives							
Practice IP Subnetting; Practice on physical equipment; Ethernet Protocol; LAN Switches; Address Resolution Protocol;								
	Intended							
	Lab exer Discussi Journal o Module s	rcise & active on documentati 5 exam	e learning on					
	Resource	s and Refe	rences					
	Instructo Cisco Ne Lab envi Laptop a DC Con Journal	r Notes and etAcad: Intro ronment ind Internet nect	Slideshow duction to N	etworks: module 5				
	Evaluatio Module e Lab dem week 8 Journal i	n exam ionstration & marked - cor	discussion	- knowledge of content covered in k 8 documentation				

Wk.	Hours:	4	Delivery:	In Class				
10	Course Learning Outcomes							
	CLO2, 0	CLO4, CLO5	, CLO6					
	Essential Employability Skills							
	EES1, EES2, EES6, EES9							
	Intended	Learning O	bjectives					
	Practice Practice Network Routing Routers Configu	IP Subnettii on physical Layer Proto re a Cisco R	ng; equipment; ocols; outer;					
	Intended	Learning A	ctivities					
	Lab exe Discuss Journal Module	rcise & activ ion documentati 6 exam	e learning on					
	Resource	es and Refe	rences					
	Instructo Cisco N Lab env Laptop a DC Con Journal	or Notes and etAcad: Intro ironment and Internet nect	Slideshow oduction to N	etworks: module 6				
	Evaluatio	on						
	Module Lab den week 9	exam nonstration &	discussion	- knowledge of content covered in				
	Journal	marked - co	mpleted wee	k 9 documentation				

Wk.	Hours:	4	Delivery:	In Class			
11	Course Learning Outcomes						
	CLO2,	CLO4, CLO5	, CLO6				
	Essential Employability Skills						
	EES1, I	EES2, EES6	, EES9				
	Intended	l Learning C	bjectives				
	Practice Practice Transpo TCP an	e IP Subnetti e on physical ort Layer Pro d UDP;	ng; equipment; tocols;				
	Intended						
	Lab exe	ercise & activ	e learning				
	Journal Module	documentat 9 exam	ion				
	Resourc	es and Refe	erences				
	Instruct Cisco N Lab env Laptop DC Cor Journal	or Notes and letAcad: Intro /ironment and Internet inect	I Slideshow oduction to N	etworks: module 9			
	Evaluation Module Lab der week 10 Journal	on exam nonstration & ס marked - co	& discussion mpleted wee	- knowledge of content covered in k 10 documentation			

Wk.	Hours: 4 Delivery: In Class						
12	Course Learning Outcomes						
12	CLO2, CLO4, CLO5, CLO6						
	Essential Employability Skills						
	EES1, EES2, EES6, EES9 Intended Learning Objectives Practice IP Subnetting; Practice on physical equipment; Build a network on real equipment (2 routers & 2 switches) Static & default routes Ping & traceroute						
	Intended Learning Activities						
	Lab exercise & active learning Discussion Journal documentation						
	Resources and References						
	Instructor Notes and Slideshow Cisco NetAcad: Introduction to Networks Lab environment Laptop and Internet DC Connect Journal						
	Evaluation Lab demonstration & discussion - knowledge of content covered in week 11 Journal marked - completed week 11 documentation						

Wk.	Hours:	4	Delivery:	In Class			
12	Course Learning Outcomes						
15	CLO2, C	LO4, CLO5	, CLO6				
Essential Employability Skills EES1, EES2, EES6, EES9							
	Practice Practice Build a r Static & Ping & tr	Practice IP Subnetting; Practice on physical equipment; Build a network on real equipment (2 routers & 2 switches) Static & default routes Ping & traceroute					
	Lab exer Discussi Journal o Practice	rcise & activo on documentati Final	e learning on				
	Resource	s and Refe	rences				
	Instructo Cisco Ne Lab envi Laptop a DC Com Journal	r Notes and etAcad: Intro ronment and Internet nect	Slideshow duction to N	etworks			
	Evaluatio Lab dem routers & Journal switches	n oonstration & & 2 switches marked - bui) documenta	discussion) Id a network ation	- build a network on real equipment (2 on real equipment (2 routers & 2			

Wk.	Hours:	4	Delivery:	In Class			
14	14 Course Learning Outcomes CLO2, CLO4, CLO5, CLO6						
	Essential Employability Skills						
	EES1, E	EES1, EES2, EES6					
	Intended	Learning C	bjectives				
	Summa	Summary of Introduction to Networks curriculum;					
	Intended Learning Activities						
	Final (ex. project/practical)						
	Resource	es and Refe	erences				
	Lab env	ironment					
Laptop and Internet							
Journal							
	Evaluatio	on			Weighting		
	Final (e:	k. project/pra	actical)	2	20%		