Department: Electrical Engineering
Title of the Program: Communication Engineering and

Networks



Course Specification of Telecommunication Polices and Standards

I. (I. Course Identification and General Information:							
1.	Course Title:	Telecommunication Polices and Standards						
2.	Course Code & Number:	CNE437						
		С.Н			T-4-1			
3.	Credit hours:	Th.	Tu.	Pr.	Tr.	Total		
		2	-	-	-	2		
4.	Study level/ semester at which this course is offered:	Fifth Year/ Second Semester						
5.	Pre –requisite (if any):	None.						
6.	Co –requisite (if any):	None.						
7.	Program (s) in which the course is offered:	Communication Engineering and Networks				tworks		
8.	Language of teaching the course:	English						
9.	Location of teaching the course:	Classes at the Faculty of Engineering						
10.	Prepared By:	Asst. Prof. Dr. Nasser H. Almofari						
11.	Date of Approval	2020						

II. Course Description:

This course introduces the important regulatory terminologies, the fundamentals of telecommunication standardization and regulation, standards and regulatory bodies, 3GPP, FCC, ITU, IETF, NTT and other bodies besides the telecommunication policy and regulation in Yemen. The standards setting process, regulator types, deregulation and liberalization also will be covered. This course also introduces the spectrum management and regulation, spectrum sharing, licensing procedures unlicensed spectrum access legislation process, the universal service, its rules, policy and acts. Finally, it covers the privacy and security.

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III	Course Intended learning outcomes (CILOs) of the	Referenced
	course	PILOs
a1	Demonstrate the knowledge and understanding of the telecommunication polices, standards and regulation	A1
a2	Acquire a knowledge about recent economic issues, polices, acts, competition and regulation of telecommunication service	A3
b1	Analyze core problems, standards and policies impacting telecommunications and the internet	B2
b 2	Consider economic, social and environmental dimensions in any rules or policies related to telecommunication	В4
c1	Apply an interdisciplinary framework to critically evaluate efficacy of standards and policy initiatives	C2
d1	Acquire the ability to write and articulate clear, well-reasoned positions on current policy issues and debates	D4

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:						
	Course Intended Learning Outcomes Teaching strategies Assessment Strategies					
a1-	Demonstrate the knowledge and understanding of the telecommunication polices, standards and regulation	 Active lectures Interactive class Discussions Exercises and Homework 	Midterm and final written tests.Homework and assignments reports			
a2-	Acquire a knowledge about recent economic issues, polices, acts, competition	Active lecturesInteractive class discussions	Midterm and final written tests.			

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and regulation of	Exercises and home	Homework and assignments
telecommunication service	works	reports

	(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:					
Coı	urse Intended Learning Outcomes	Teaching strategies	Assessment Strategies			
b1- Analyze and evaluate core problems, standards and policies impacting telecommunications and the internet		 Active lectures Tutorials Interactive class Discussions Exercises and home works 	Midterm and final written tests.Homework and assignments reports			
b2-	Consider economic, social and environmental dimensions in any rules or policies related to telecommunication	 Active lectures Tutorials Interactive class discussions Exercises and home works 	Midterm and final written tests.Homework and assignments reports			

© Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:						
Cour	rse Intended Le	arning Outcomes	Teaching strategies	Assessment Strategies		
c1-	Apply an framework evaluate standards initiatives	interdisciplinary to critically efficacy of and policy	 Active lectures Tutorials Interactive class discussions Exercises and home works 	Midterm and final written tests.Homework and assignments reports		

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(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:						
Course Intended Learning Outcomes	Course Intended Learning Outcomes Teaching strategies Assessment Strategies					
d1- Acquire the ability to write and articulate clear, well-reasoned positions on current standards and policy issues	■ Presentations	 Homework and assignments reports 				

IV. Course Content:							
	A – Theoretical Aspect:						
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact hours		
1.	Introduction	a1, a2	 Course structure and requirements Evolution of Communication Important Regulatory Terminologies 	1	2		
2.	Telecom. Standardization overview	a1, a2	 What is the telecommunication standard? Why we need standardization? Formal telecommunications standards organizations, ITU, ETSI, TIA, 3GPP, IEEE 802.11, BBF, IETF 	2	4		

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			 ONF The Open Networking Foundation for Software Defined Networking (SDN) ETSI ISG NFV The industrial specification group for Network Functions Virtualization (NFV) oneM2M for machine-to- machine communication. ETSI TC ITS for Intelligent Transportation Systems. Standards Setting Process Standardization and Telecommunication industry in Yemen 		
3.	Telecom. Policy and regulation overview	a1, a2, b1,c1, d1	 Telecommunication regulation and policy definitions Reasons for regulations Communications as a "Regulated Industry" Justifications for Regulation Basic Regulatory Tools Types of regulators Deregulation and Liberalization The Challenges of Regulation Levels of Government Regulation Today Regulating for Effective Competition 	2	4

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			Government Regulation and Policy in Yemen		
4.	Regulation and Policy Bodies	a1, a2, b1, b2, c1, d1	 The Federal Communications Commission (FCC) Regulatory Integration Under the 1934 Act The FCC in a Functional Perspective, Command and Control, Rulemaking versus Adjudication, Licensing, Norm Entrepreneur Policies in USA Policies in Japan, NTT, NTT Docomo Telecom. Regulation authority, Rules and acts in Yemen 	2	4
5.	Spectrum Management	a1, a2, b1, b2, c1, d1	 Spectrum definition and Characteristics Early Spectrum Regulation Rationales for Regulation An Overview of Spectrum Management Regulatory Tradeoffs and Allotment Models of Spectrum Control Spectrum Policy Task Force Report Implementing Flexibility 	2	4

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7.	Telecommunication and Universal service	a1, a2, b1, b2, d1	 Origins of Universal Service Policy Equity and Efficiency in Subsidizing Universal Service: 	2	4
6.	Legislation and Licensing Process	a1, a2, b1, b2, d1	 Legislation at glance Effects of deregulation License Renewal License Transfer License Assignment Licensing Case Study Reform of the Licensing Process Initial Assignment by Auction 	1	2
			 Redevelopment of Spectrum to Encourage Innovation in the Use of New Telecommunications Technologies Dedicating Spectrum to Unlicensed Uses Approaches to Unlicensed Access White Spaces Spectrum Sharing Efficient Use of Spectrum Through Elimination of Barriers to the Development of Secondary Markets Spectrum management in Yemen 		

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8.	Privacy and security er of Weeks /and Unit	a1, a2, b1, b2, c1, d1	 Economic of privacy Privacy recommendation NIST Cybersecurity frame work Cybersecurity recommendation Cybersecurity Economic Cybersecurity debate Final review 	2	28
			Ramsey Pricing versus Distributional Policy Universal Service After the 1996 Act, Inter-carrier Compensation Broadband Universal Service The IP Transition Regulatory Characterization of Broadband Services Net Neutrality Policy Online privacy policies		

V. Teaching strategies of the course:

- Active lectures
- Interactive class discussions
- Home works
- Presentations

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VI.	VI. Assignments:						
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark			
1.	Recent Standards for the new technologies in telecommunication	a1, b1, c1, d1	4 th week	5			
2.	Telecom polices and regulations in Yemen and compare it with international polices and regulations	a1, a2, b1, b2, c1, d1	6 th week	5			
3.	Telecom licensing and spectrum management in the era of 5G and IoT	a1, a2, b1, b2, c1, d1	9 th week	5			
4.	International cables for universal service access. (Yemen as case study)	a1, a2, b1, b2, c1, d1	13 th week	5			
	Total			20			

VII	VII. Schedule of Assessment Tasks for Students During the Semester:						
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes		
1.	Assignments	4 th ,6 th ,9 th ,13 th	20	20%	a1, a2, b1, b2, c1, d1		
2.	Midterm exam	8 th	20	20%	a1, a2, b1, b2, c1		
3.	Final Exam	16 th	60	60%	a1, a2, b1, b2, c1		
	Sum		100	100%			

VIII. Learning Resources:

• Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

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	1. Stuart M. Benjamin, and James B. Speta, 2015, "Telecommunications Law and			
	Policy", Fourth edition, North Carolina, Carolina Academic Press.			
2- Es	sential References.			
	1. Hitoshi Mitomo, 2020, "Telecommunications Policies of Japan", Singapore, Springer			
	Nature Singapore Pte Ltd.			
	2. Hank Intven, 2000, "Telecommunication Regulation Handbook: module 1, Overview			
	of Telecommunication Regulation", Washington, DC, USA, World Bank.			
3- El	3- Electronic Materials and Web Sites etc.			
	1. https://sites.google.com/a/colorado.edu/davidreed/courses			

IX	Course Policies:
1.	Class Attendance: - The students should have more than 75% of attendance according to rules and regulations of the faculty.
2.	Tardy: - The students should respect the timing of attending the lectures. They should attend within 15 minutes from starting of the lecture.
3.	Exam Attendance/Punctuality: - The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for mid-term exam and final exam.
4.	Assignments & Projects: - The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5.	Cheating: - If any cheating occurred during the examination, the student is not allowed to continue and he has to face the examination committee for enquires.

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	Plagiarism:
6.	- If one student attends the exam on another behalf; he will be dismissed from the faculty
	according to the policy, rules and regulations of the university.
	Other policies:
7.	- All the teaching materials should be kept out the examination hall and mobile phones are
	not allowed.
	- Mutual respect should be maintained between the student and his teacher and also among
	students. Failing in keeping this respect is subject to the policy, rules and regulations of the
	university.

Reviewed	Vice Dean for Academic Affairs and Post Graduate Studies: Asst. Prof. Dr. Tarek		
By	A. Barakat		
	President of Quality Assurance Unit: Assoc. Prof. Dr. Mohammed Algorafi		
	Name of Reviewer from the Department: Asst. Prof. Dr. Mohammed Al-Suraby		
	Deputy Rector for Academic Affairs Asst. Prof. Dr. Ibrahim AlMutaa		
	Assoc. Prof. Dr. Ahmed Mujahed		
	Asst. Prof. Dr. Munasar Alsubri		

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Template for Course Plan of Telecommunication Polices and Standards

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Asst. Prof. Dr. Nasser H. Almofari	Office Hours					
Location& Telephone No.	Sana'a City 777344970	SAT SUN MON TUE WE		WED	THU		
E-mail	almofaryn@gmail.com						

II.	II. Course Identification and General Information:						
1-	Course Title:	Telecor	Telecommunication Polices and Standards				
2-	Course Number & Code:	CNE43	7				
			C.	Н		Total	
3-	Credit hours:	Th.	Tu	Pr.	Tr.	Total	
		2	-	-	-	2	
4-	Study level/year at which this course is offered:	Fifth Year/ Second Semester					
5-	Pre –requisite (if any):	None.					
6-	Co –requisite (if any):	None.					
7-	Program (s) in which the course is offered	Communication Engineering and Networks					
8-	Language of teaching the course:	English					
9-	System of Study:	Regular					
10-	Mode of delivery:	Semesters					
11-	Location of teaching the course:	Classes at the Faculty of Engineering					

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III. Course Description:

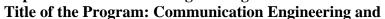
This course introduces the important regulatory terminologies, the fundamentals of telecommunication standardization and regulation, standards and regulatory bodies, 3GPP, FCC, ITU, IETF, NTT and other bodies besides the telecommunication policy and regulation in Yemen. The standards setting process, regulator types, deregulation and liberalization also will be covered. This course also introduces the spectrum management and regulation, spectrum sharing, licensing procedures unlicensed spectrum access legislation process, the universal service, its rules, policy and acts. Finally, it covers the privacy and security.

IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:
- **1-** Demonstrate the knowledge and understanding of the telecommunication polices, standards and regulation
- **2-** Acquire a knowledge about recent economic issues, polices, acts, competition and regulation of telecommunication service
- **3-** Analyze and evaluate core problems, standards and policies impacting telecommunications and the internet
- **4-** Consider economic, social and environmental dimensions in any rules or policies related to telecommunication
- **5-** Apply an interdisciplinary framework to critically evaluate efficacy of standards and policy initiatives
- **6-** Acquire the ability to write and articulate clear, well-reasoned positions on current policy issues and debates

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V	V. Course Content:					
	A – Theoretical A	Aspect:				
Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact hours		
1.	Introduction	 Course structure and requirements Evolution of Communication Important Regulatory Terminologies 	1 st	2		
2.	Telecom. Standardization overview	 What is the telecommunication standard? Why we need standardization? Formal telecommunications standards organizations, ITU, ETSI, TIA, 3GPP, IEEE 802.11, BBF, IETF ONF The Open Networking Foundation for Software Defined Networking (SDN) ETSI ISG NFV The industrial specification group for Network Functions Virtualization (NFV) oneM2M for machine-to-machine communication. ETSI TC ITS for Intelligent Transportation Systems. Standards Setting Process Standardization and Telecommunication industry in Yemen 	2 nd ,3 rd	4		

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3.	Telecom. Policy and regulation overview	Types of regulators Types of regulators Deregulation and Liberalization The Challenges of Regulation Levels of Government Regulation Today Regulating for Effective Competition Government Regulation and Policy in Yemen		4
4.	Regulation and Policy Bodies	 The Federal Communications Commission (FCC) Regulatory Integration Under the 1934 Act The FCC in a Functional Perspective, Command and Control, Rulemaking versus Adjudication, Licensing, Norm Entrepreneur Policies in USA Policies in Japan, NTT, NTT Docomo Telecom. Regulation authority, Rules and acts in Yemen 	6 th ,7 th	4
5.	Midterm Exam	■ All previous topics	8 th	2
6.	Spectrum Management	 Spectrum definition and Characteristics Early Spectrum Regulation Rationales for Regulation An Overview of Spectrum Management 	9 th ,10 th	4

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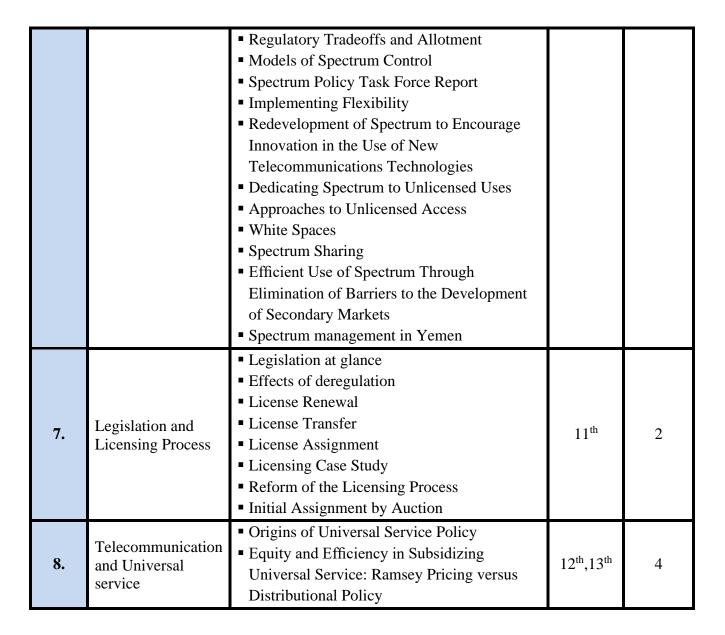
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	Number of V	Veeks /and Units Per Semester	16	32
10.	Final Exam	■ All topics	16 th	2
9.	Privacy and security	 Online privacy policies Economic of privacy Privacy recommendation NIST Cybersecurity frame work Cybersecurity recommendation Cybersecurity Economic Cybersecurity debate Final review 	14 th ,15 th	4
		 Universal Service After the 1996 Act, Intercarrier Compensation Broadband Universal Service The IP Transition Regulatory Characterization of Broadband Services Net Neutrality Policy 		

Teaching strategies of the course:

- Active lectures
- Interactive class discussions
- Home works
- Presentations

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VI	VII. Assignments:						
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark			
1.	Recent Standards for the new technologies in telecommunication	a1, b1, c1, d1	4 th week	5			
2.	Telecom polices and regulations in Yemen and compare it with international polices and regulations	a1, a2, b1, b2, c1, d1	6 th week	5			
3.	Telecom licensing and spectrum management in the era of 5G and IoT	a1, a2, b1, b2, c1, d1	9 th week	5			
4.	International cables for universal service access. (Yemen as case study)	a1, a2, b1, b2, c1, d1	13 th week	5			
	Total			20			

VII	VIII. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment		
1.	Assignments	4 th ,6 th ,9 th ,13 th	20	20%		
2.	Midterm exam	8 th	20	20%		
3.	Final Exam	16 th	60	60%		
	Sum		100	100%		

IX. Learning Resources:

• Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

1. Stuart M. Benjamin, and James B. Speta, 2015, "Telecommunications Law and Policy", Fourth edition, North Carolina, Carolina Academic Press.

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2- Essential References.

- 1. Hitoshi Mitomo, 2020, "Telecommunications Policies of Japan", Singapore, Springer Nature Singapore Pte Ltd.
- 2. Hank Intven, 2000, "Telecommunication Regulation Handbook: module 1, Overview of Telecommunication Regulation", Washington, DC, USA, World Bank.

3- Electronic Materials and Web Sites etc.

1. https://sites.google.com/a/colorado.edu/davidreed/courses

	X. Course Policies:
1.	Class Attendance: - The students should have more than 75% of attendance according to rules and regulations of the faculty.
2.	Tardy: - The students should respect the timing of attending the lectures. They should attend within 15 minutes from starting of the lecture.
3.	Exam Attendance/Punctuality: - The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for mid-term exam and final exam.
4.	Assignments & Projects: - The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5.	Cheating: - If any cheating occurred during the examination, the student is not allowed to continue and he has to face the examination committee for enquires.

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6.	Plagiarism: - If one student attends the exam on another behalf; he will be dismissed from the faculty according to the policy, rules and regulations of the university.
7.	Other policies: - All the teaching materials should be kept out the examination hall and mobile phones are not allowed. - Mutual respect should be maintained between the student and his teacher and also among students. Failing in keeping this respect is subject to the policy, rules and regulations of the university.

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