

IEL & eLearning Library Application

with IEEE English for Engineering



IEEE

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KITIS Info. Company

- 교육 (教育, education)

- 인간이 삶을 영위하는 데 필요한 모든 행위를 가르치고 배우는 과정이며 수단



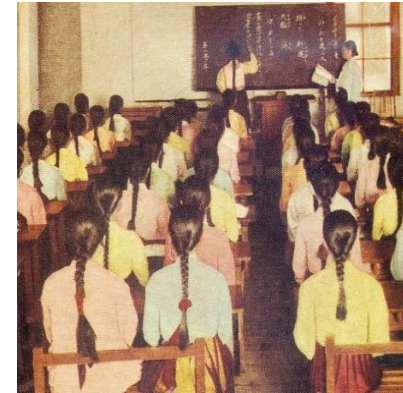
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대한민국 교육의 변천사



- **삼국시대의 교육**
 - 국가에 의한 학교 교육이 시작되었고 그 배경으로써 유교와 불교가 절대적인 영향을 끼침
- **조선시대의 교육**
 - 성리학적 도학정신이 정신적인 지표와 교육이념의 중추를 이룸
 - 유교적 교육내용이 채택되어 사용됨
- **개화기의 교육**
 - 19세기 말 개항과 함께 문호개방을 통해 세계 각국과의 통상조약에 의해 서양의 발달된 문물과 접하게 되면서 이에 자극을 받은 정부와 뜻있는 선각자들은 신학교 설립에 앞장서는 등 새로운 교육체제 확립을 위한 근대교육 도입운동에 주력



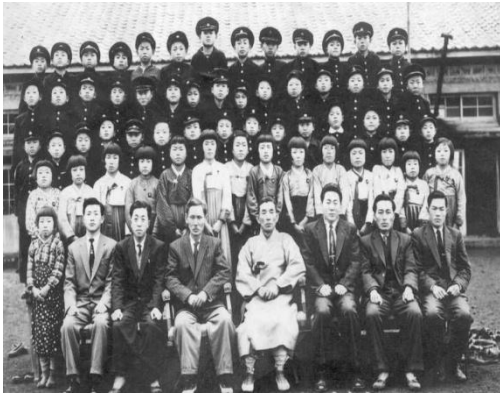
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대한민국 교육의 변천사



- 광복 이후의 교육

- 8·15광복과 함께 일제의 통치하에서 벗어난 우리 나라의 교육은 새로운 민주국가의 교육정책과 이념을 설립하기 위하여 많은 연구와 협의

- 1990년대의 교육

- 민주화를 통한 교육을 위한 제도, 법규들이 체계적으로 만들어짐에 따라 현재의 교육 환경과 여건이 만들어짐

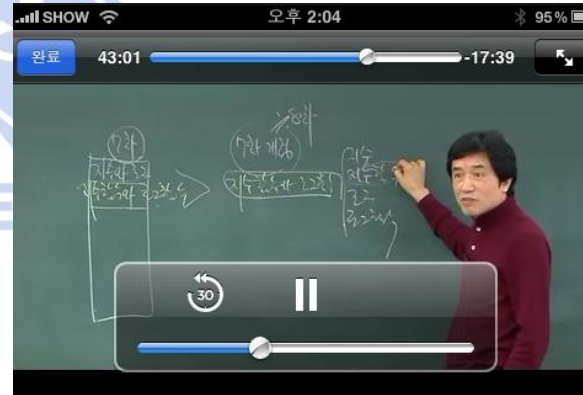


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대한민국 교육의 변천사



- 2000년대 이후의 교육
 - 컴퓨터의 보급을 통한 다양한 방법의 교육 방식이 도입



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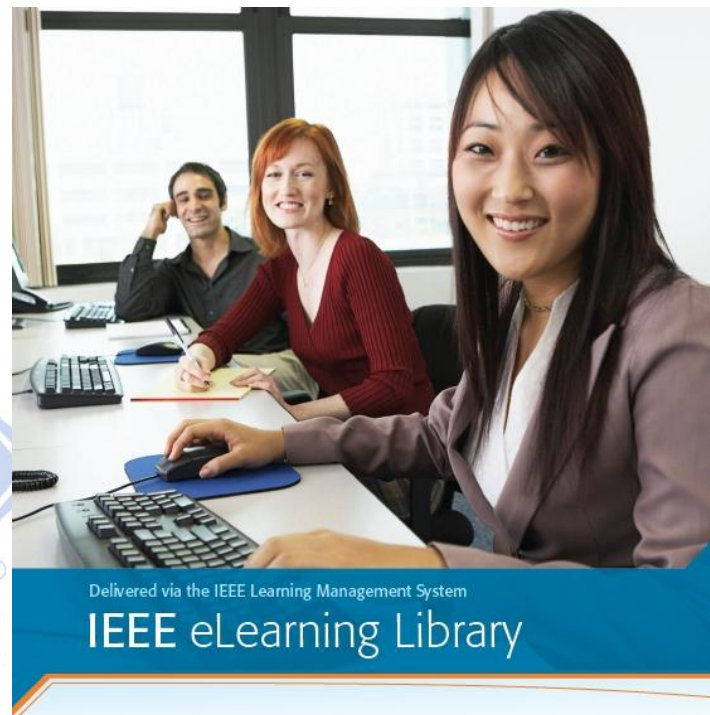
출처 : 푸른아우성

IEEE eLearning Library

The premier online collection of short courses
and conference workshops



IEEE의
최신 Conference 자료를
기반으로 만들어진
온라인 전문 교육 프로그램



IEL을 통해 Text로만 학습하고 연구할 수 있었던 IEEE Conference 정보를
IEEE가 엄선한 전문가에 의해 교육용 동영상으로 제작하여 인터넷으로 제공

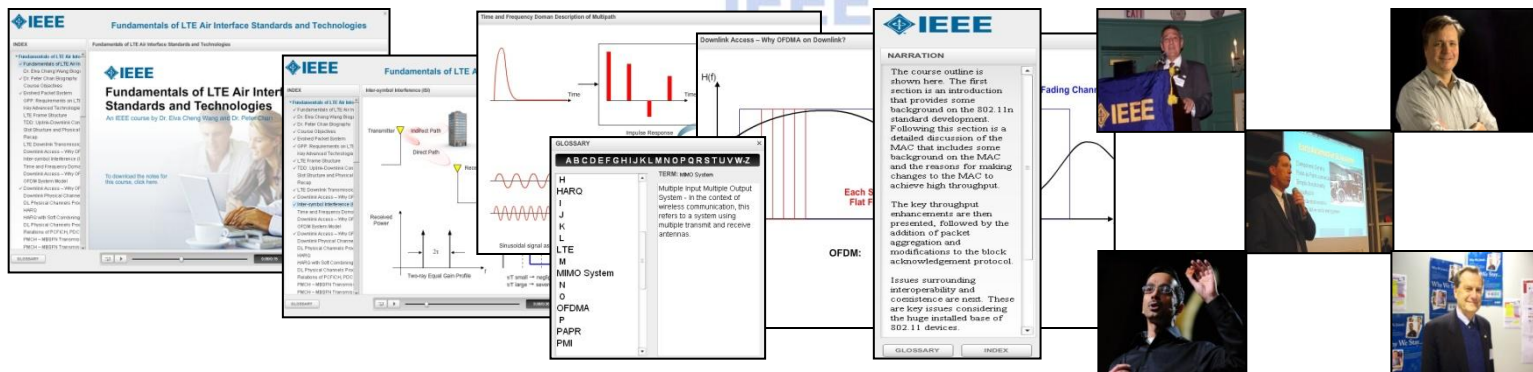


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- ① IEEE만이 보유하고 있는 자료를 텍스트가 아닌 **시청각 동영상으로 교육**
- ② **오디오, 애니메이션, 그래픽, 수치 및 용어사전**을 통한 **학습 효과 최대화**
- ③ 최신의 IEEE Conference의 발표 내용을 중심으로 제작이 되기 때문에 **신속히 변화하는 핵심기술 및 동향습득 가능**
- ④ IEEE가 엄선한 **세계 최고의 석학들로 구성된 전문가에 의한 교육**





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▪ LTE

- 3세대 이동통신(WCDMA) 진화 기술인 롱텀에볼루션(Long Term Evolution)의 약자로 차세대 통신기술

	1G	2G	3G	pre-4G / 4G
접속방식	아날로그	GSM CDMA	WCDMA CDMA2000 와이브로	LTE / LTE-Advanced 와이브로-에볼루션 (와이맥스2)
전송속도	-	14.4 ~ 64kbps	144kbps ~ 2Mbps	100Mbps ~ 1Gbps
전송형태	음성	음성/문자	음성/문자/동영상 등	음성/문자/동영상 등
다운로드 속도 (800MB 동영상)	다운로드 불가	약 6시간	약 10분	약 85초~6초(이론적)





IEEE 802.11b/g/n 규격 적용



모델명	GALAXY S II
크기	125.3x66.1x8.9mm(SKT/KT), 125.3x66.1x9.4mm(LG U+)
무게	121g(SKT/KT), 124g(LG U+)
배터리	1,650mAh
OS	Android 2.3
CPU	Exynos 4210 (Dual core)

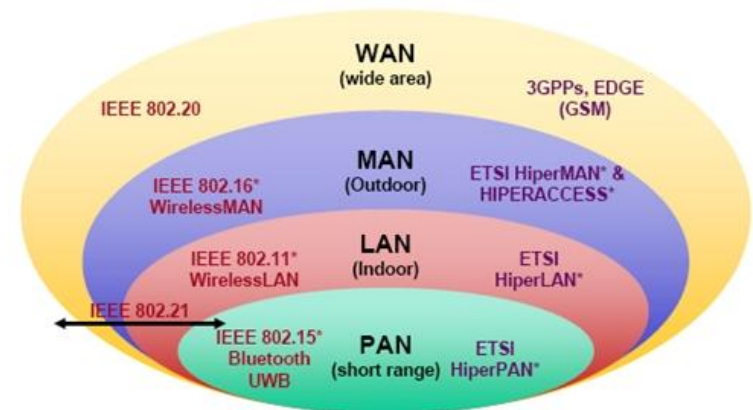
WiFi WiFi 802.11 a/b/g/n, 2.4GHz/5GHz 듀얼밴드

IEEE 802.11a/b/g/n 규격 적용

▪ IEEE 802.11

• IEEE 802.11 작업 그룹에서 개발한 무선 LAN 규격

- 802.11: 1997년부터 사용되었고, 무선 인터넷 LAN에 적용
- **802.11a**: 1999년에 채택되어 비동기 전송 방식(ATM) 시스템에 적용
- **802.11.b**: 1999년에 채택되었으며 Wi-Fi라고 함
- **802.11g**: 2003년에 채택되어 2.4GHz 대역에서 20Mbps 이상의 속도를 제공하는 무선 인터넷
- **802.11n**: 최대 600Mbps 속도를 지원하는 무선 LAN 표준



2012년 05월 08일 22:22:54 / 이유지 기자 yjlee@ddaily.co.kr

알려진 무신 IEEE(국제전기전자공학회)는 ‘와이파이’로 더 잘

IEEE(국제전기전자학회)는 ‘와이파이’로 더 잘 알려진 무선랜(WLAN) 제품 기술을 정의하는 IEEE 802.11-2012 표준을 발표했다고 7일 밝혔다.

이 표준은 2007년 마지막 개정된 이후 10가지 개정사항을 포함해 올해 4번째 IEEE 802.11-2011 개정판을 선보였다. 개정판은 전송속도 10배 향상, 유선과 무선의 전

이 표준은 2007년 마지막 개정된 이후 10가지 개정사항을 포함해 올해 4번째 IEEE 802.11-2012 개정판으로 선보였다

IEEE 803.11 워킹그룹 회장 브루스 크레이머(Bruce Kraemer)은 “이번 IEEE 802.11 개정 발표는 전세계에서 수백 명이 참가한 프로젝트로 마지막 개정에 비해 2배가량 발전했다”며 “하루에 무선 커뮤니케이션을 위한 IEEE 802.11 기반 기술 제품 200만 개 가량이 전세계적으로 움직이고 있는 상황에서 IEEE 802.11에 대한 끊임없는 개선이 기술 혁신과 글로벌 시장의 성장을 촉진시켰다”고 말했다.

출처 : 디지털데일리



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Fundamentals of LTE Air Interface Standards and Technologies

Download the notes for this course, click here.

INDEX

- Fundamentals of LTE Air Interface Standards and Technologies
 - ✓ Fundamentals of LTE Air Interface Standards and Technologies
 - Dr. Elva Cheng Wang Biography
 - ✓ Dr. Peter Chan Biography
 - Course Objectives
 - Packet Structure
 - Requirements on LTE
 - Key Air Interface Technology
 - LTE Physical Structure
 - TDD, FDD, Downlink Control
 - Slot Structure and Physical
 - Recap
 - LTE Downlink Physical
 - Downlink Physical Channels
 - Interference (I)
 - Time-Frequency Domain
 - Downlink Access - Why OFDM
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 - ✓ Downlink Access - Why OFDM
 - Downlink Physical Channels
 - DL Physical Channels Processing
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 - DL Physical Channels Processing
 - Relations of PCFICH, PDCCH
 - PMCH - MBSFN Transmissions
 - PMCH - MBSFN Transmissions





Fundamentals of LTE Air Interface Standards and Technologies

An IEEE course by Dr. Elva Cheng Wang and Dr. Peter Chan

GLOSSARY




0:00:15




1 of 95





The screenshot displays the Moodle interface for the IEEE eLearning Library. The top navigation bar includes the IEEE logo and a welcome message. The left sidebar contains various menu items such as 'People', 'Activities', 'Assignments', 'Chats', 'Forums', 'Glossaries', 'Lessons', 'Quizzes', 'Resources', 'SCORM/AICC', 'Surveys', 'Wikis', 'Search Forums', 'Administration', 'Grades', 'Profile', and 'Course categories'. The main content area shows a 'Welcome to Moodle!' message, a 'Topic outline' for 'IEEE 802.11n MAC Layer', and a 'Calendar' for June 2009. A 'What's New' section at the bottom highlights recent updates and top downloads.

IEEE
CERTIFICATE OF COMPLETION
 This is to certify that
Hyunjae Son
 has completed the course
IEEE 802.11n MAC Layer
 January 26, 2012
 IEEE 802.11n MAC Layer Grade: -
 Credit Hours: 3 Professional Development Hours
 Michael Lightner
 Vice President, IEEE Education Activities Board

The screenshot shows the IEEE eLearning Library course catalog. The top navigation bar includes the IEEE logo and the URL <http://ieee-elearning.org>. The main content area displays a table of courses with columns for 'TITLE' and 'LEVEL'.

TITLE	LEVEL
3G Wireless Systems	Introductory
A Primer on Cluster Analysis: I Models and Algorithms	Introductory
A Primer on Cluster Analysis: II. Tendency Assessment and Cluster	Intermediate
II. (Mostly) Fuzzy Clustering in Very	Advanced
ed Systems	Introductory
er	Intermediate
ss Systems	Introductory
in Neural	Advanced

The bottom of the screenshot shows the IEEE logo and the text 'Sponsored by: IEEE Computational Intelligence Society'.



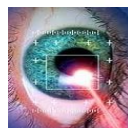
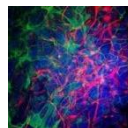
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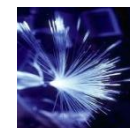
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▪ 25 Subject Area / 255 Courses

- ✓ **Aerospace**
- ✓ **Bioengineering**
- ✓ **Biometrics**
- ✓ **Circuits and Devices**
- ✓ **Communications**
- ✓ **Computational Intelligence**
- ✓ **Computing**
- ✓ **Engineering Profession**
- ✓ **Green Engineering**
- ✓ **Instrumentation and Measurement**
- ✓ **Lasers and Optics**
- ✓ **Microelectronics**



- ✓ **Microwave Theory and Techniques**
- ✓ **Nanotechnology**
- ✓ **Photonics**
- ✓ **Power**
- ✓ **Power and Energy**
- ✓ **Power Electronics**
- ✓ **Reliability**
- ✓ **Robotics and Automation**
- ✓ **Sensors**
- ✓ **Signal Processing**
- ✓ **Smart Grid**
- ✓ **Vehicular Technology**
- ✓ **Tutorial Title**



■ Course Difficulty Levels

✓ 각 Course 마다 Difficulty Level 지정되어 있어

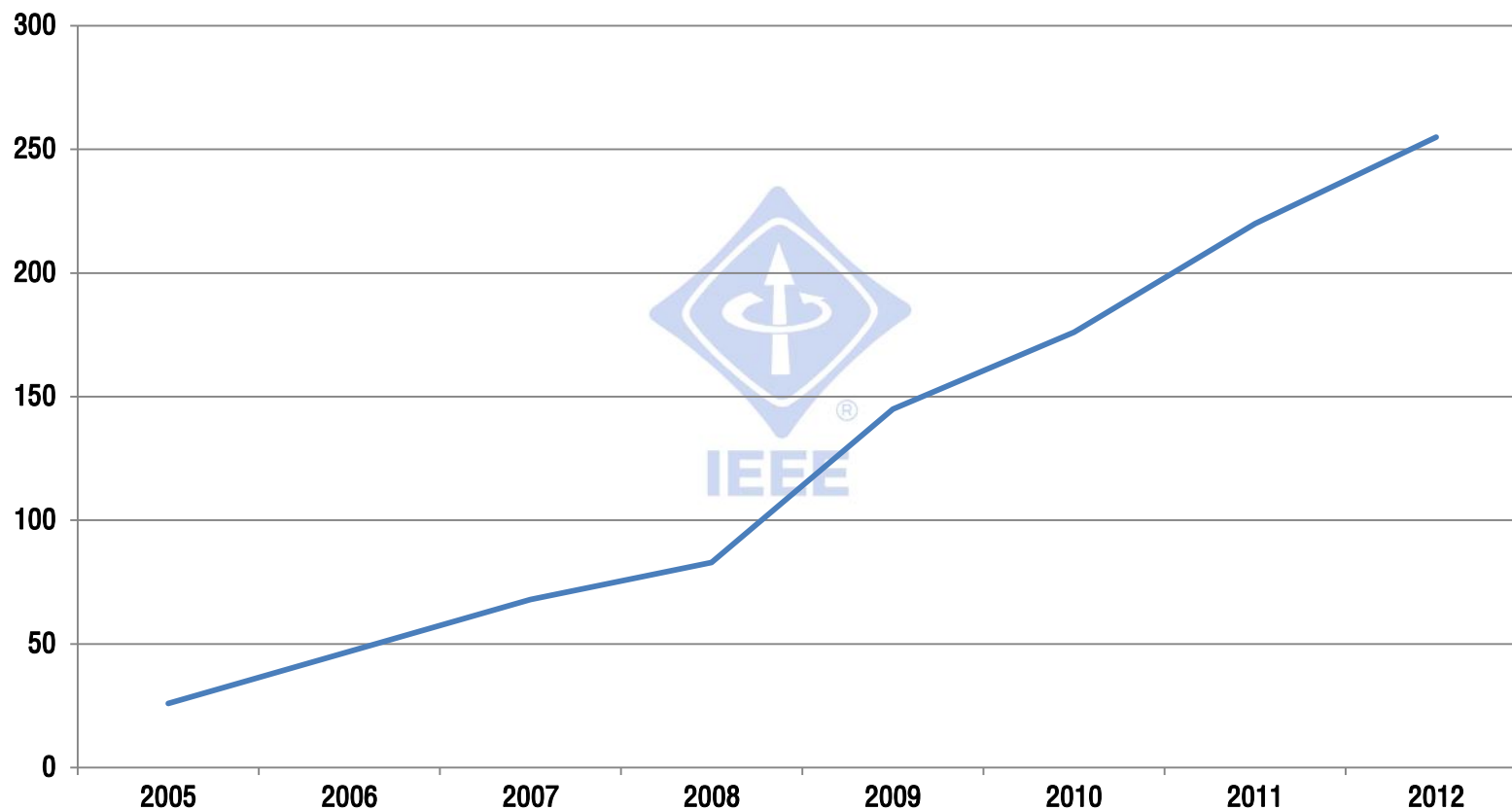
수준에 맞는 학습 선택 및 이용 가능

- Introductory
- Intermediate
- Advanced

LEVEL	
Introductory	
Introductory	
intermediate	
Advanced	
Introductory	
Intermediate	
Introductory	
Introductory	
Advanced	
Advanced	
Intermediate	
Intermediate	
Intermediate	
Intermediate	

IEEE eLearning Library	
http://iee-elearning.org	
TITLE	
3G Wireless Systems	Intro
A Primer on Cluster Analysis: I Models and Algorithms	Intro
A Primer on Clustering: II. Tendency Assessment and Cluster Validity	inter
A Primer on Clustering: III. (Mostly) Fuzzy Clustering in Very Large Data Sets	Adv
A Software Design Method for Embedded Systems	Intro
A Software Design Methodology for Real-Time Embedded Systems Part II: Design and Coding Guidelines	Inter
Advanced Protocols for Wireless Ad-hoc Networks	Intro
Advanced Statistical Methodologies for Tolerance Analysis in the Integrated Circuit design	Intro
Advanced Universal Plug and Play Technology Topics	Adv
Advances in Digital RF Architectures and Digitally-Assisted RF	Inter
An Introduction to Leadership: A Primer for the Practitioner	Inter
An Introduction to Sustainable Green Engineering Part 1	Inter

Catalog Size



IEEE

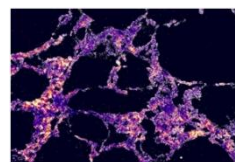
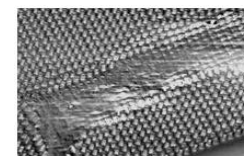
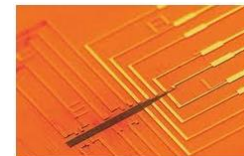
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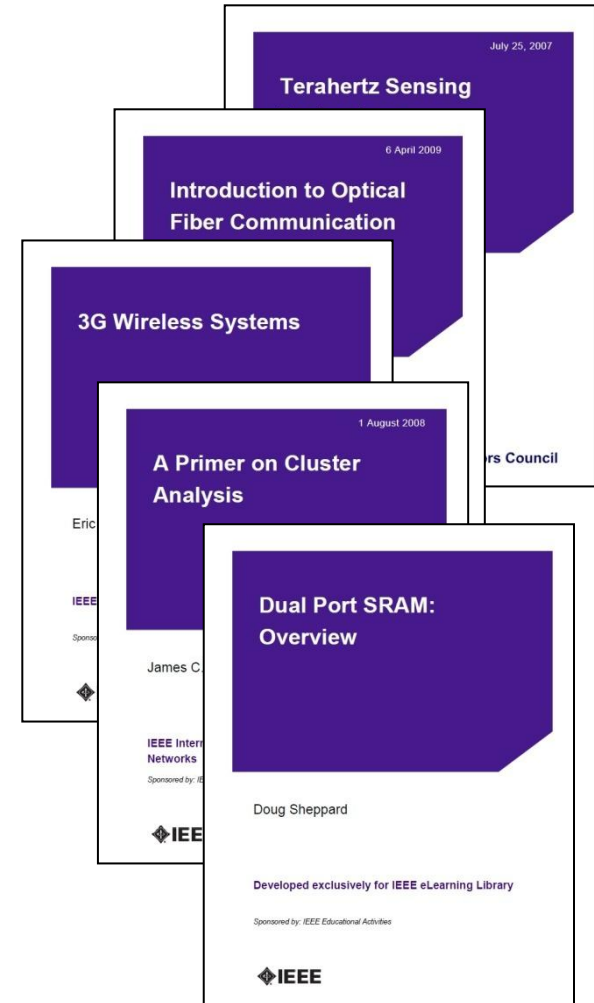
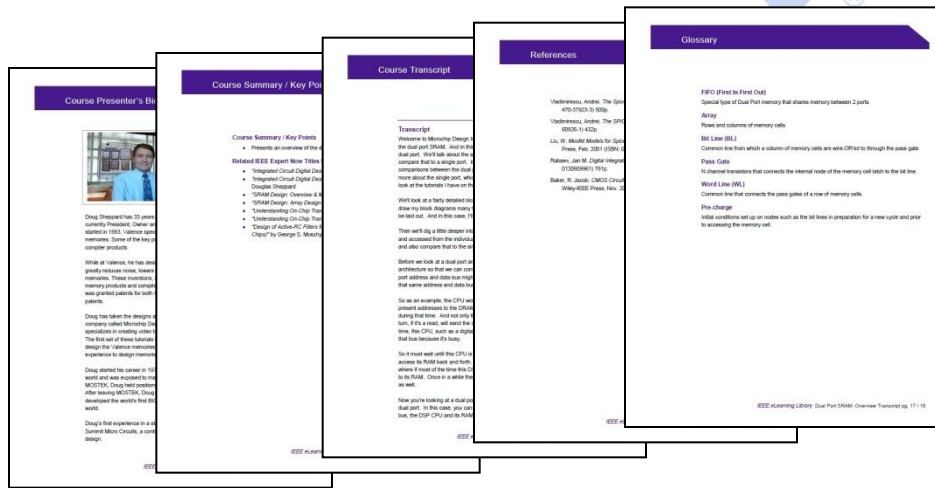
▪ 2012년 48개 Courses Update 예정

- ✓ Advanced course on biometrics for security
- ✓ Analog Digital Converter Design Parts 1 & 2
- ✓ Biomedical Optical Diagnostics and Sensing
- ✓ bioMEMS/biosensors and point-of-care diagnostics
- ✓ Broadband Fiber Access
- ✓ How to be a Prolific Inventor
-
-
-
- ✓ Low Power Logic and Mixed-Signal Technologies
- ✓ Multigigabit Wireless: CMOS & FR-4 at 60 GHz
- ✓ Smart Antennas for Wireless Systems
- ✓ Tracing Cyber Attacks
- ✓ WCET Area 1: RF Engineering, Propagation and Antennas
- ✓ Wireless Cooperative Communication Networks



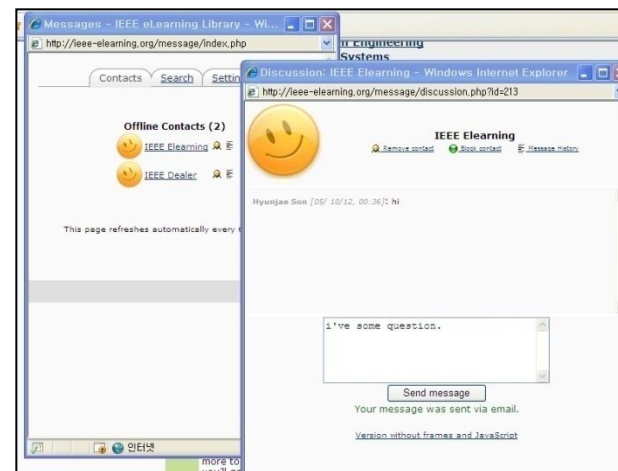
■ Course Note 제공

- PDF 형식의 강의 교재 제공
- Course별 요약, 개요 및 요점 제공
- 저자 정보 제공



■ 온라인 학습 관리 시스템 적용

- 온라인을 통한 학사관리
- 학교, 기업, 공공기관의 인력 양성 시스템
- 개인 계정을 통한 학습 진행 사항 확인 가능



Discussion

Started	Started
Your Skills Can Make a Difference in the World	Alex Torre
IEEE Humanitarian Technology Webinar Series	John Teeh
Register now for our next Humanitarian Technology Webinar!	Alex Torre
Free IEEE Humanitarian Technology Webinar Series	John Teeh
IEEE eLearning Library News: April 2011	Tara Gallu
New Subscriber Institutional Login Now Available	Jill Bagley
Full functionality restored	Steve Welch
Winter Storms Cause Some IEEE eLearning Library Login problems	Steve Welch
IEEE eLearning Library New Releases for the New Year!	Steve Welch

Progress Reports

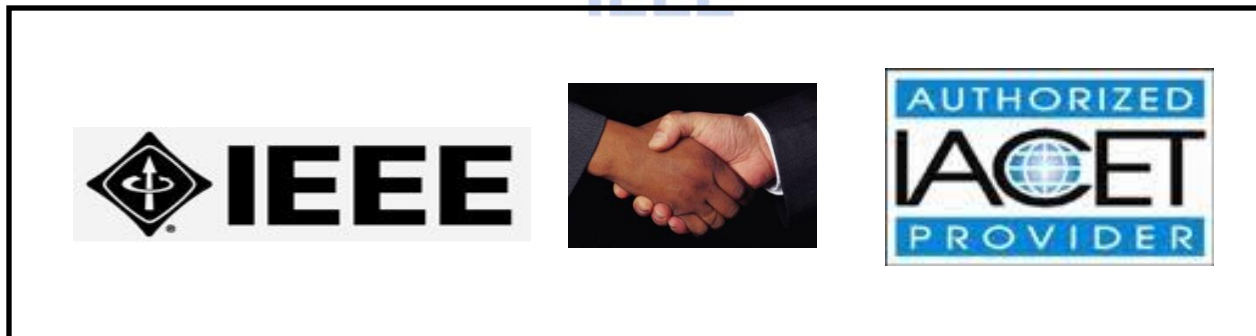
- Dashboard
- Curriculum
- Learning Plan
- Reports
- User Reports
- Individual Course Progress Report
- Individual User Report

Individual Course Progress Report

Student: Hyunjae Son
ID: HYUNJAESON
Email: hyunjaeson@gmail.com
Reg. Date: Wednesday, January 11, 2011
Cluster(s): Not Available
Date: Thursday, May 10, 2012, 12:33

Course	Class ID	Progress
A Primer on Cluster Analysis	Primer1	N/A
A Software Design Method for Embedded Systems	SDMES	N/A
Hybrid Electric Vehicles: Exploring the Electronic CVT	Hybrid	N/A
Introduction to Optical Fiber Communication Systems	IntroOptFiber	N/A

- **IACET(국제 평생 교육 트레이닝 협회)**에서 제공하는
공인 인증 점수 **CEUs(Continuing Education Units)** 제공
- **ANSI**에서 채택되어서 **IACET guidelines** 로 규격화되어
공학 엔지니어들의 교육을 위한 프로그램으로 세계적으로 그 가치를 인정 받음



- Certificate (수료증)



■ iTunesU Service

- 애플의 교육용 서비스로 해외 유명 강좌 제공
- 공개 목적으로 제작된 강의 제공
- IEEE eLearning Library Contents 중 일부 핵심 내용 제공(약 5-10분)
- iPhone으로 저장하여 활용 가능



<http://itunes.ieee-elearning.org>



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Avionics equipment(항공전자공학 장비)

Topographical surveying(지형측량)

Anchoring system(정착 시스템)

Propulsion system(추진 시스템)

Maritime application(해양 응용)

Civil engineering(토목 공학)

GPS(위성 위치 확인 시스템)

Navigation(네비게이션)



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공학 관련 영어들 어렵지 않아요~~
IEEE English for Engineering으로 배우면 되요.



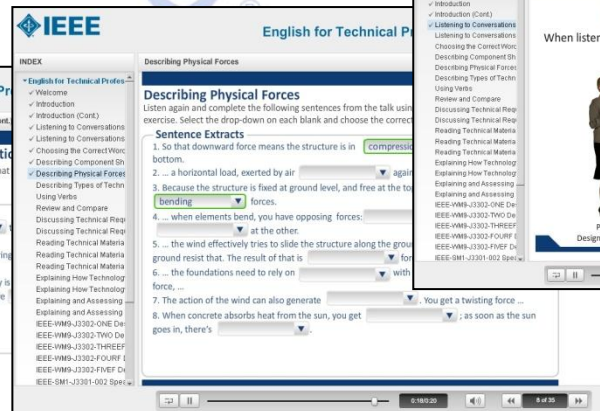
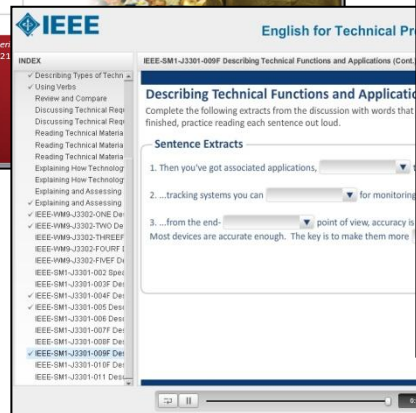
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과학 기술 분야에 관한 온라인 영어 교육 프로그램

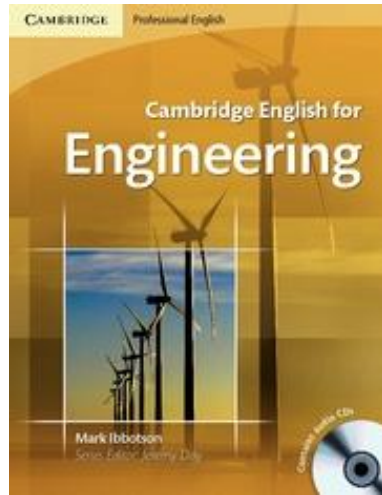


- **ESL**(English as a second language: 영어를 모국어로 쓰지 않는 사람들을 위한 언어, 즉 제2의 언어로서의 영어)을 사용하는 **공학자들을 위한 영어 학습 프로그램**
- ***Cambridge University Press**와 Partnership을 맺고 개발



*Cambridge University Press(케임브리지대학출판국)

- Cambridge 대학의 출판부로서 세계 출판사 중 가장 오랜 역사를 가짐
- 학술서,교육서 외에 시집,성서,학술잡지 등을 발행



- Cambridge University Press에서 출간하는
Cambridge English for Engineering의 내용을 근간
- IEEE English for Engineering의 60%의 내용은
Cambridge English for Engineering를 바탕으로 **Civil Engineering, Electrical Engineering, Mechanical Engineering** 등 다양한 공학분야의 내용을 포함
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UNIT 10 Pushing the boundaries

- Discussing performance and suitability
- Describing physical forces
- Discussing relative performance
- Describing capabilities and limitations

Discussing performance and suitability

1 a In pairs, answer the following questions about wind turbines.

- What function do wind turbines perform?
- What are the main advantages and disadvantages of wind turbines?
- What types of location are most suitable for wind farms?

b In pairs, discuss the functions and technical characteristics of the following wind turbine components.

blades tower generator

2 a ▶▶▶ Mike, Loreta and Hanif, engineers at a wind turbine constructor, are discussing performance and suitability issues relating to offshore wind turbines. Listen to the conversation and answer the following questions.

- Which wind turbine component do the engineers discuss?
- What is the big problem with offshore installations?
- Which two types of construction material are being compared?
- Why are coastal defences mentioned?
- What point does Hanif make about regular maintenance?
- What comparison needs to be made with regard to siting?

b Match the words (1-6) from the discussion to the definitions (a-f).

1. appropriate/suitable	a. the right solution for a particular situation
2. consistent/suitable	b. good enough for the intended function
3. cost-effective/economical	c. performs a function well
4. effective	d. works quickly and well
5. efficient	e. makes the most of resources, isn't wasteful
6. sufficient/adequate	f. doesn't break down, always performs in the same way

c Make the following words negative by adding the prefixes in- or un-

1. adequate	inadequate	6. efficient	inefficient
2. appropriate	inappropriate	7. reliable	unreliable
3. consistent	inconsistent	8. sufficient	insufficient
4. economical	uneconomical	9. suitable	unsuitable
5. effective	ineffective		

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Describing physical forces

4 a Read the following article. What is a solar tower and how does it use the forces of expansion and pressure?

SOLAR TOWERS

The dawn of a new era in renewable energy?

The need to develop renewable energy is widely seen as a futuristic technological challenge. In reality, some of the most effective ways of harnessing resources from nature are based on concepts that have existed for donkey's years. The wind turbine is an obvious example. Another – less well known, but conceived almost a century ago – is the solar tower or solar chimney. And if the Australian company EnviroMission completes an ambitious solar tower project in the New South Wales desert, the technology could capture not just the sun's rays but the public's imagination worldwide. The firm is planning to construct a tower a colossal one kilometre high. If built, it will be the world's tallest structure by a huge margin.

How it works

A large glass enclosure is built, with a chimney at its centre. The sun heats the enclosure, causing expansion of the air inside. At the top of the chimney, the lower temperature and lower pressure due to the higher altitude create a pressure differential known as stack effect. This causes air to flow up the chimney. Electricity is generated by turbines at the bottom of the chimney, which are driven by the flow of air. The larger the area of glass and the taller the chimney, the greater the airflow and the higher the generating capacity.

b What physical forces would act on a solar tower 1 km high?

c ▶▶▶ Su, a structural engineer specialising in the design of very tall structures, is giving a talk to a group of engineering students. Listen to the talk. Which of the forces in the box doesn't she mention?

bending centrifugal force compression contraction expansion
friction pressure shear tension torsion/torque

d Label the diagrams using the forces in Exercise 4c.

1 2 3 4 5
6 7 8 9 10

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Wind Turbines - FACT FILE

- The fact that wind turbines consume no fuel and waste very little energy is clearly a fundamental advantage. But just how efficient are they? As a result
- Clearly, wind turbines need to be located on relatively windy sites in order to function. From a meteorological standpoint, what kinds of geographical location are the most suitable?
- Turbines are generally placed at the tops of tall towers, where wind speeds are higher, thus making them more effective. What other geographical factors influence performance?
- Wind turbines rarely function continuously, due to the fact that wind speeds are variable. How significant is the impact of variable weather conditions on power generating capacity?
- Transmitting electricity over long distances is inherently inefficient, due to power loss from overhead or underground power lines. Find out more about the advantages of generating power locally.
- The generating capacity of wind turbines is generally low for it to be relied upon 100%. What percentage of total generating capacity can wind turbines realistically provide?
- Some early wind turbines were prone to suffering breakdowns caused by metal stresses stemming from higher wind loads on the upper blade. However, this problem has been overcome on modern units. Learn more about the technical evolution of wind turbines.

b You are engineers at Sigma Power. The marketing manager has asked you to provide some technical answers for the frequently asked questions section of the company's website. The FAQ section is aimed primarily at potential clients who are thinking of installing wind turbines at their sites – factories, office complexes, hospitals, and university campuses. In pairs, discuss the following questions and write the answers for the website using the information in the fact file and your own knowledge.

Frequently Asked Questions
A common sense introduction to wind turbines

- What's the big advantage of having a wind turbine at my site?
- How dependable are wind turbines as a source of power, given that weather conditions are changeable?
- What kinds of site are most suitable for wind turbines, relative to natural factors such as hills, the coast, and height above sea level?
- What's the most appropriate location for my wind turbine, relative to local features on the site, such as trees and buildings?

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- Listening and Comprehension
- Technical writing
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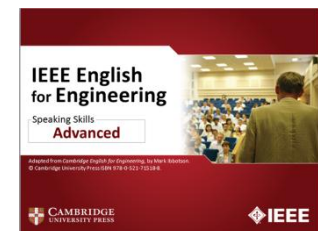
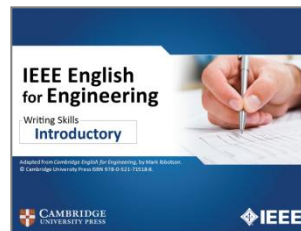
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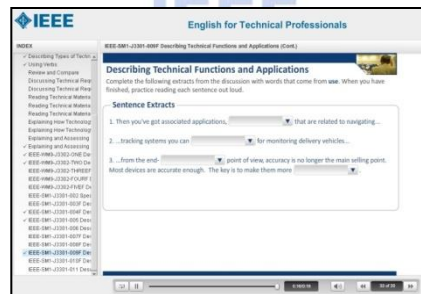
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