

Mobile Learning



► Introduction

- ❖ Kemajuan ICT secara kontinu terus berkembang di dunia Higher Education, menciptakan pengalaman "*anytime/ anywhere*"
- ❖ Wireless Network dan Mobile Communication dipasangkan dengan perangkat personal computer (PC/ laptop), menghadirkan pengalaman baru bagi student untuk mengakses informasi kampus, dan berkomunikasi baik antar student maupun dengan pengajar.
- ❖ Dengan kemajuan teknologi baik di bidang Wireless Network maupun Mobile Communication, menjadikan 2 remarkable area Future Learning, yaitu: Mobile Learning (M-Learning) dan Wireless Learning (W-Learning)
- ❖ Dalam kurun waktu 10 tahun kedepan, boundary perbedaan antara M-Learning dan W-Learning akan semakin sulit untuk dibedakan (age of convergence)



► Mobile and Wireless Learning Definitions

Features	Mobile Learning	Wireless Learning
Device Size	Handheld: Mobile Phone, Smart Phone, PDA Phone	Handheld: Laptop, tablet PC
Screen Size	Very Small (mobile phone) to a maximum of 480 x 640 pixels. More common for PDA is 240 x 320 pixels	"Normal" screen size, 10 to 15 inches
Connectivity	Mobile Networks: GSM, GPRS, UMTS or CDMA	Local Campus Networks, such as Wi Fi
Coverage	National	Campus Area

Source: Wentzel, Petra, Using Mobile Technology to Enhance Students' Educational Experiences, ECAR Case Study, 2005



► Pentingnya M-Learning dan W-Learning

How Important M-Learning & W-Learning

M-Learning	W-Learning
Mobility & Portability, inside pocket	Mobility on campus area
Instant Communication	Instant Communication, when online
Anytime/ anywhere connectivity	Anytime/ anywhere connectivity on campus area
Voting Application	Voting Application
Emergency Calls	Research Questionnaire
GPS Tracking	Assessment Need
Photo transmission	

Adopted from: Ganjalizadeh, Said, M-Learning, (ganjalizadeh@cua.edu), Evolving Technologies Committee 2007



► Evolusi M-Learning

- ❖ Sejak tahun 2003, Coastline Community College (CCC) di Amerika telah menyediakan pengajaran lengkap melalui handheld Pocket PC devices (http://military.coastline.edu/pocket_ed.htm).



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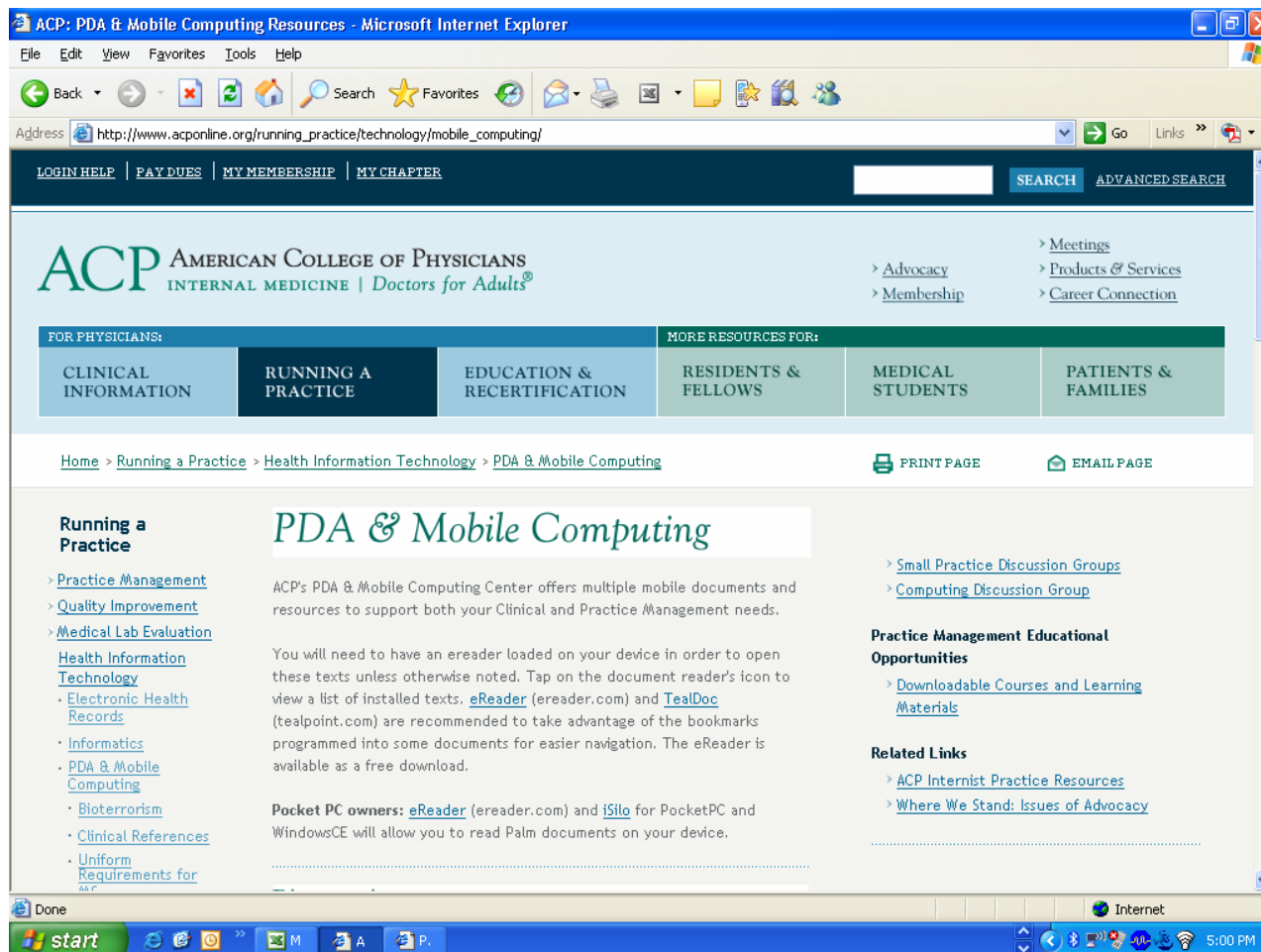
► Evolusi M-Learning

- ❖ Beberapa universitas di Amerika, memberikan studentsnya iPods yang telah diisi oleh kampus form registrasi, kebijakan kampus, peta, organisasi kampus, jadwal kelas, dan informasi perpustakaan. Mereka menggunakan teknologi MP3 dan Mpeg4 untuk petunjuk informasi kuliah dan rekaman dosen (podcasting)
 - Duke University (<http://www.duke.edu/ddi/itunes/>);
 - University of California at Berkeley (<http://webcast.berkeley.edu/>);
 - Stanford University (<http://itunes.stanford.edu/>);
 - UCLA (<http://oid.ucla.edu/webcasts/>);
 - Purdue University (<http://boilercast.itap.purdue.edu:1013/Boilercast/>).



► Evolusi M-Learning

- ❖ Organisasi Kampus dan komunitasnya menggunakan M-Learning. American College of Physicians menyediakan konten learning melalui PDA. (<http://www.acponline.org/pda/>).



ACP: PDA & Mobile Computing Resources - Microsoft Internet Explorer

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PDA & Mobile Computing

ACP's PDA & Mobile Computing Center offers multiple mobile documents and resources to support both your Clinical and Practice Management needs.

You will need to have an ereader loaded on your device in order to open these texts unless otherwise noted. Tap on the document reader's icon to view a list of installed texts. [eReader](#) (ereader.com) and [TealDoc](#) (tealpoint.com) are recommended to take advantage of the bookmarks programmed into some documents for easier navigation. The eReader is available as a free download.

Pocket PC owners: [eReader](#) (ereader.com) and [iSite](#) for PocketPC and WindowsCE will allow you to read Palm documents on your device.

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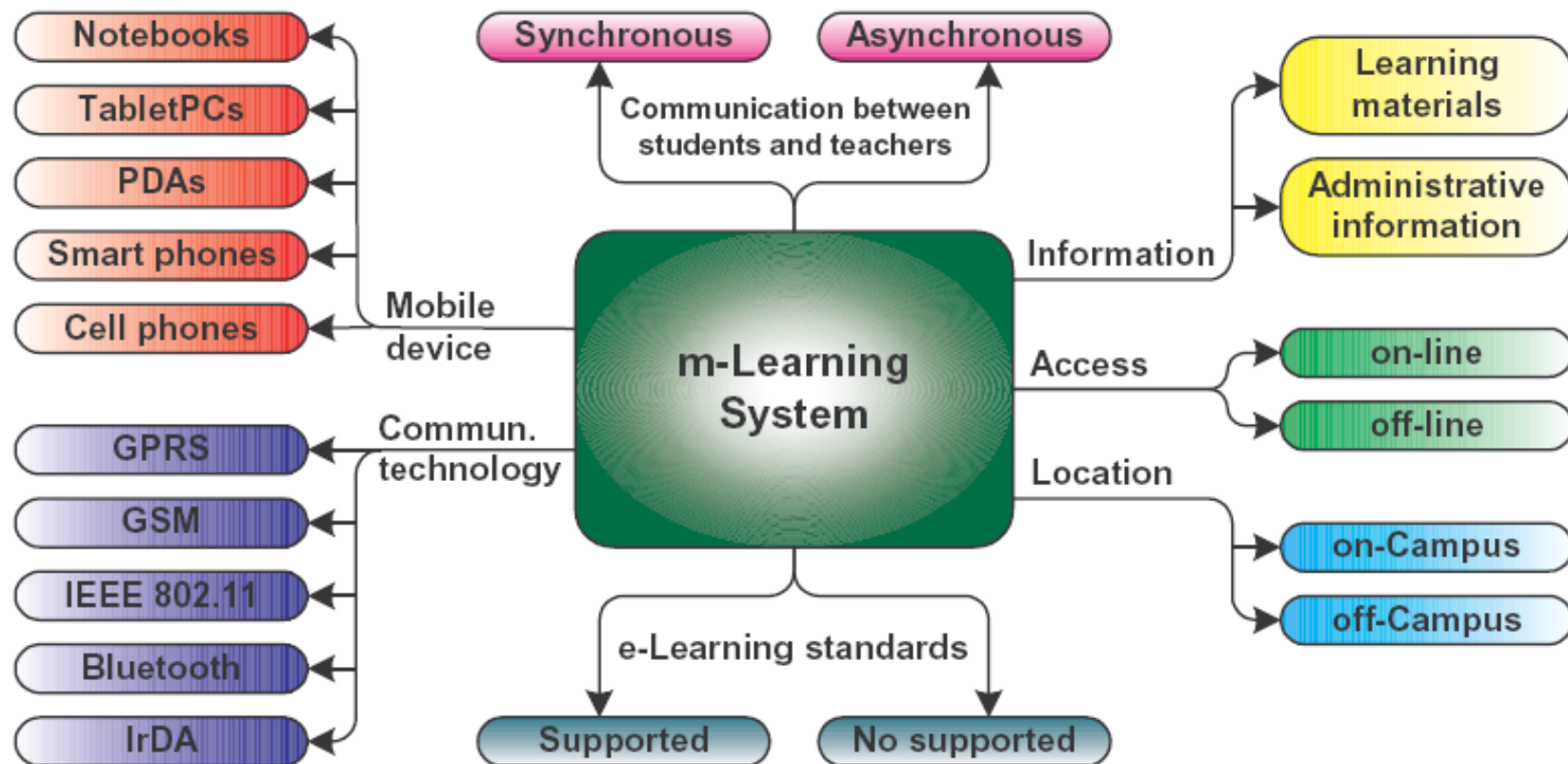
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- > [Where We Stand: Issues of Advocacy](#)



► Holistic E-Learning System

- ❖ Holistic E-Learning System mengintegrasikan klasikal, mobile learning dan wireless learning



Source: Gorgieva, Evgeniya, Angel Smirikarov, and Tsvetazor Georgiev, "A General Classification of Mobile Learning Systems", International Conference on Computer Systems and Technologies - CompSysTech' 2005

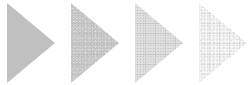
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► E-Learning System

- ❖ Secara Umum, advance E-Learning Sytem dikategorikan sebagai berikut:
 - On-campus systems, dimana dapat diakses di dalam lingkungan kampus. Access bisa menggunakan wireless, dengan menggunakan laptop atau tablet PC (W-Learning)
 - Off-campus systems, dimana dapat diakses dari luar lingkungan kampus dengan akses menggunakan pocket size computers (PDA), cell phone atau smart phone, selama device tersebut memiliki kemampuan support wireless communication (GPRS, UMTS, CDMA). Juga memiliki kemampuan untuk mengirim/ menerima SMA yang berisi berita dan pesan penting lainnya dari kampus ke user/ students (M-Learning)

Adopted from: Gorgieva, Evgeniya, Angel Smirikarov, and Tsvetazor Georgiev, "A General Classification of Mobile Learning Systems", International Conference on Computer Systems and Technologies - CompSysTech' 2005





Thank You !

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