18MCA33C Mobile Computing

UNIT IV Mobile Applications Architecture

FACULTY

Dr. K. ARTHI MCA, M.Phil., Ph.D.,

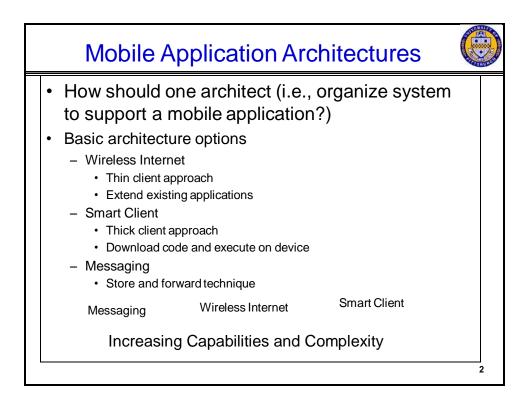
Assistant Professor,

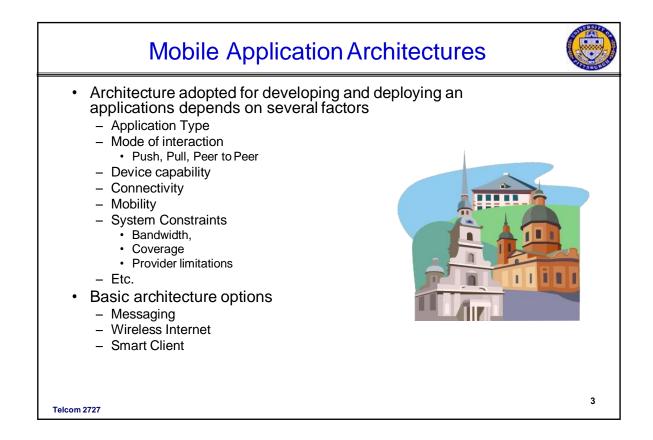
Postgraduate Department of Computer Applications,

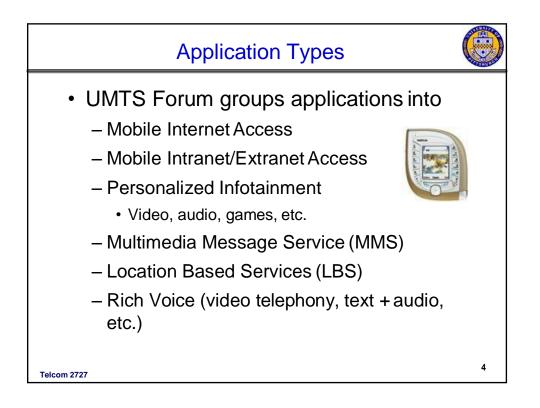
Government Arts College (Autonomous),

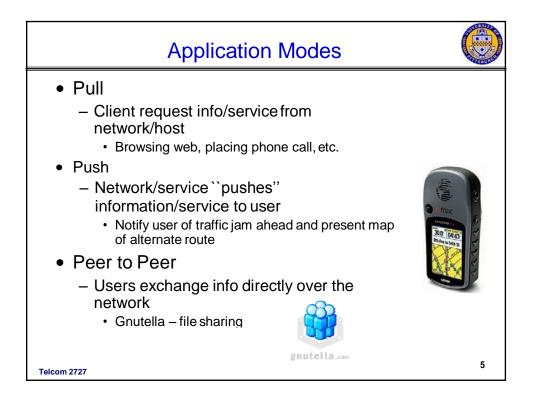
Coimbatore-641018.

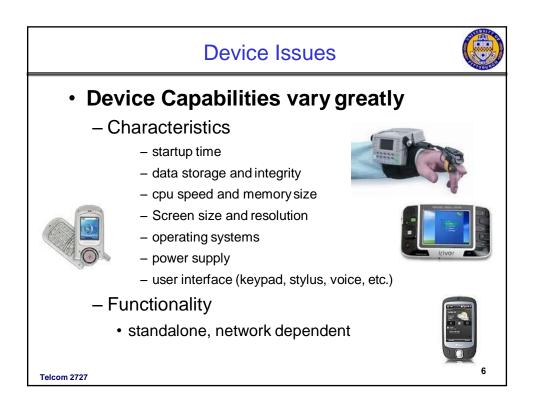




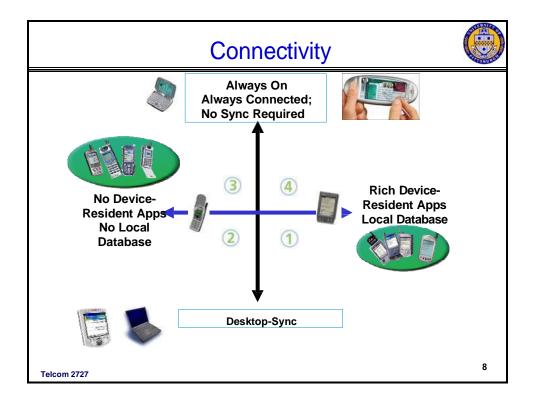


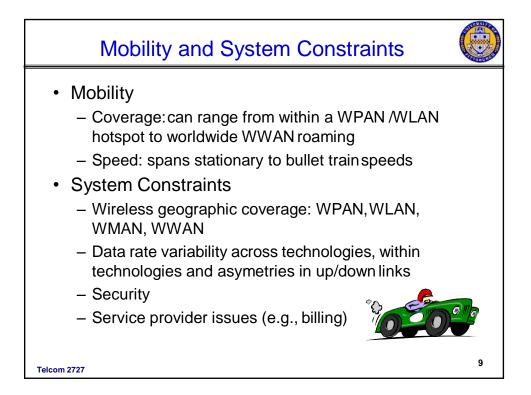


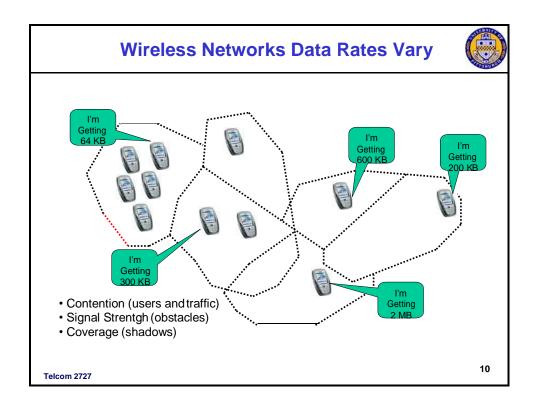


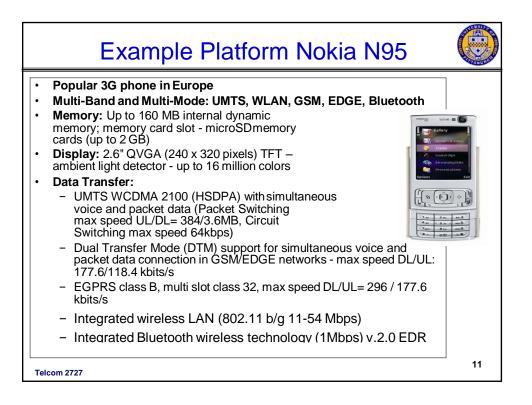


	Device	e Diversity	٢
	Device	OS	CPU
	Nokia 3G phones (6630)	Symbian	Т.І.
	Samsung Z105u	Proprietary	Qualcomm
	Motorola A925	Symbian	Freescale
	PDA	Palm OS or Windows CE or Linux	Various (Freescale, TI, Agere, etc)
	Handheld PC (HP Jornada)	Windows CE	Intel
	Laptop (IBM)	Windows/XP or Linux	Intel
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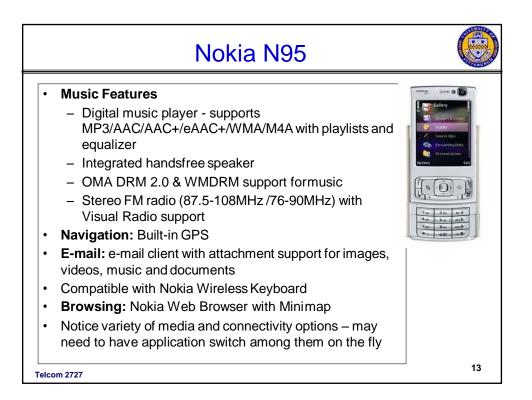


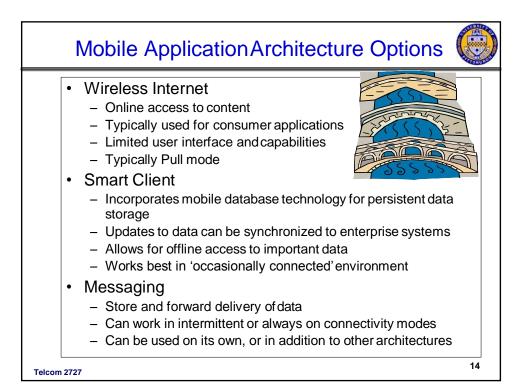


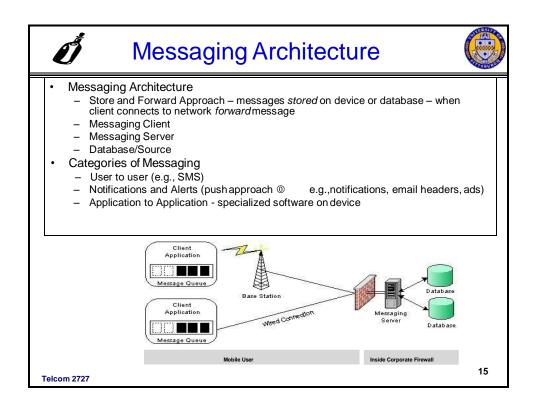


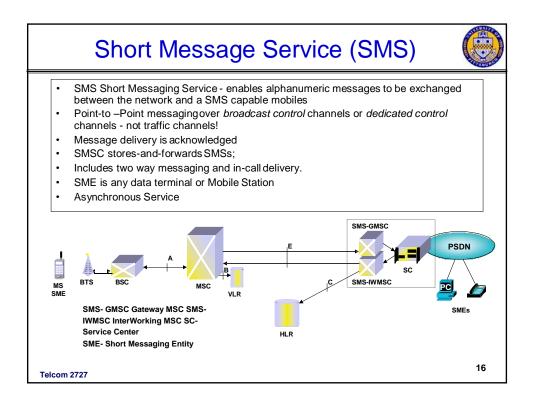


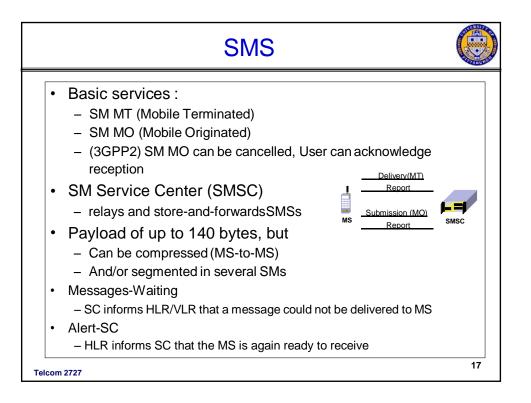
Nokia N95	٢
 Connectivity USB 2.0 via Mini USB interface and mass storage class support to support drag and drop functionality 3.5 mm stereo headphone plug and TV out support (PAL/NTSC) Nokia PC Suite connectivity with USB, Infrared andBluetooth wireless technology Local synchronization of contacts and calendar to a compatible PC using compatible connection Remote over-the-air synchronization Video Send and receive images, video clips, graphics, and business cards via Bluetooth wireless technology Up to 5 megapixel (2592 x 1944 pixels) camera - MPEG-4 VGA video capture of up to 30 fps Video and still image editors Movie director for automated video production 	Contraction Contr
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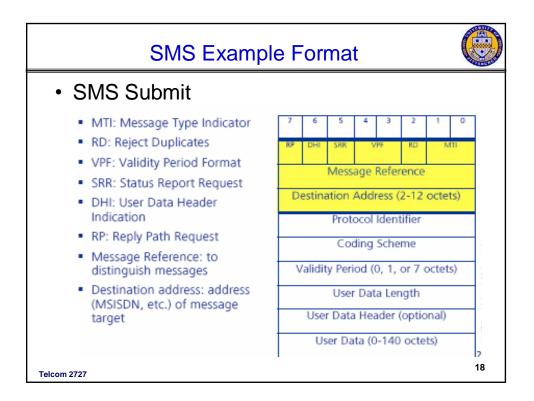


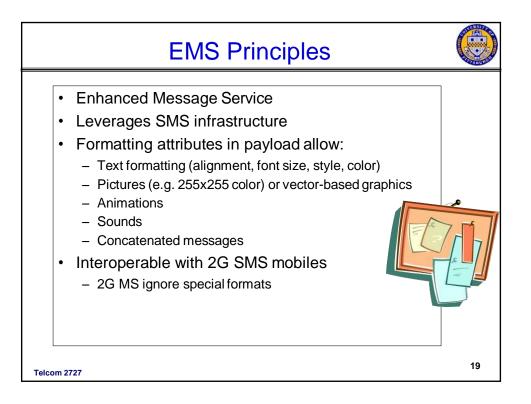


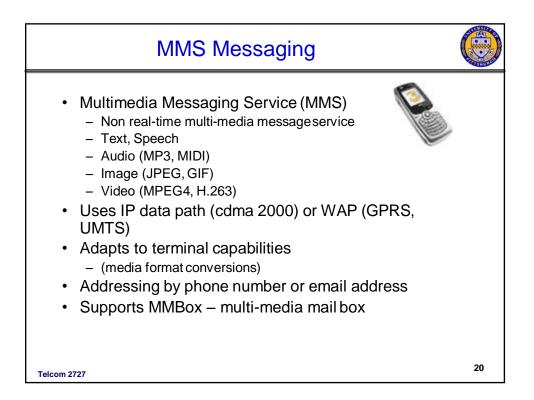


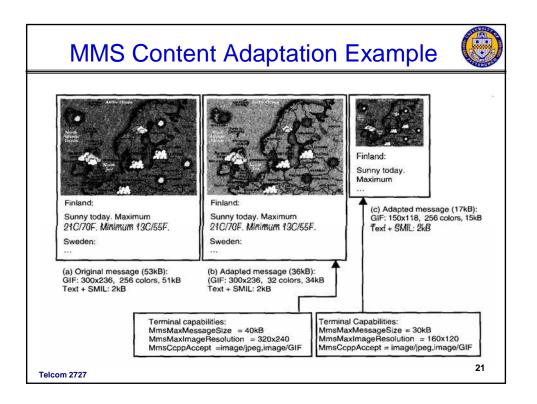


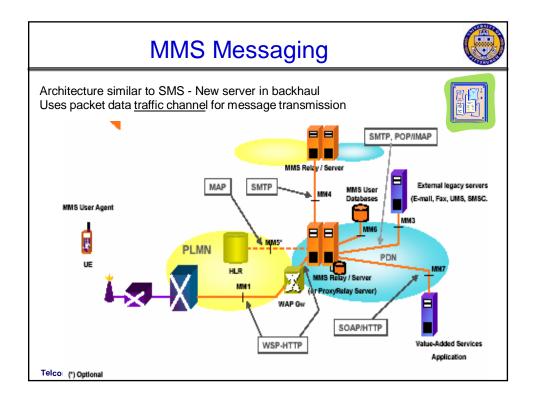


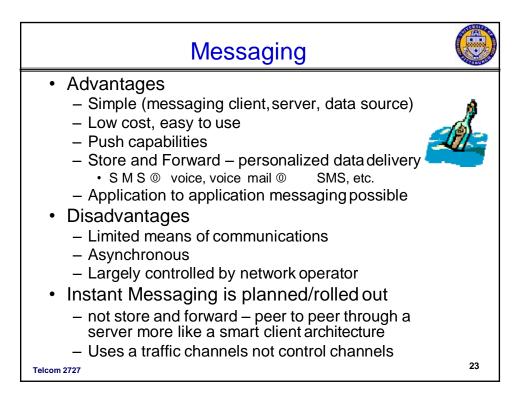


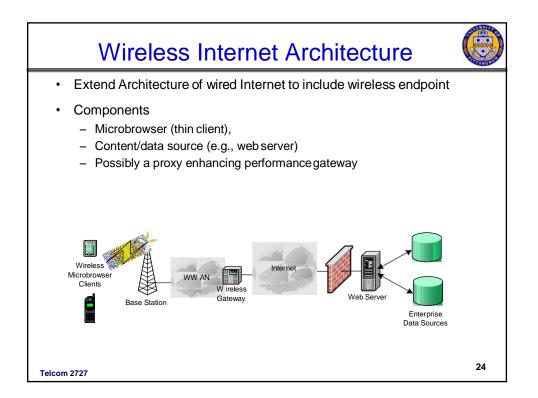


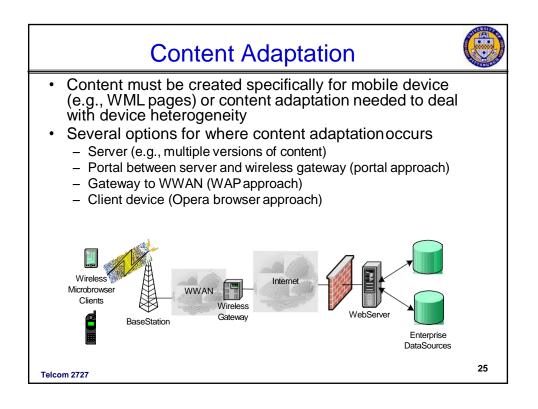




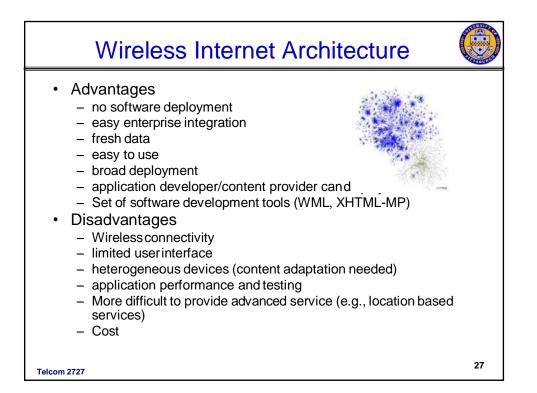


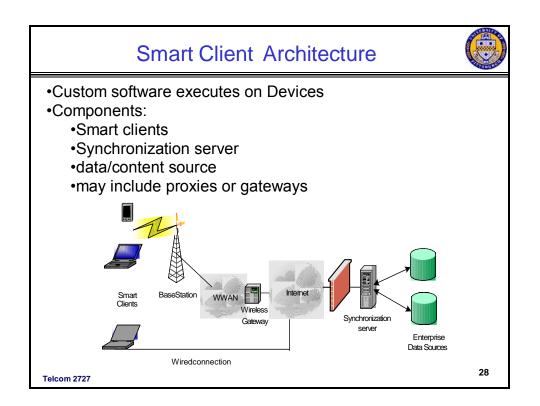


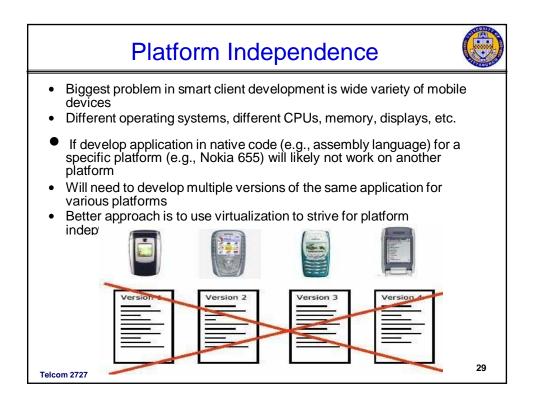




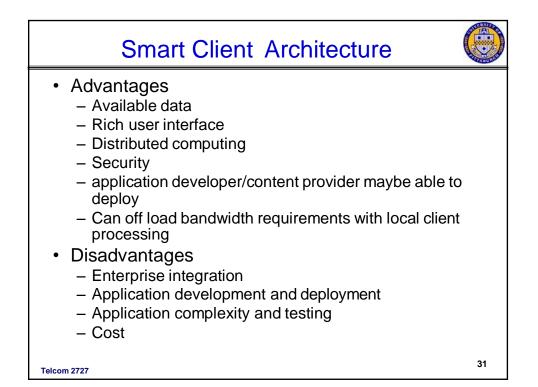


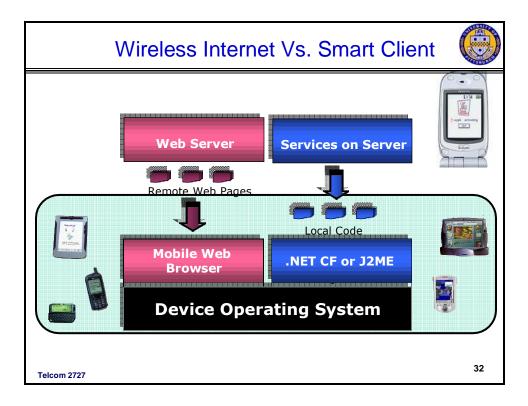


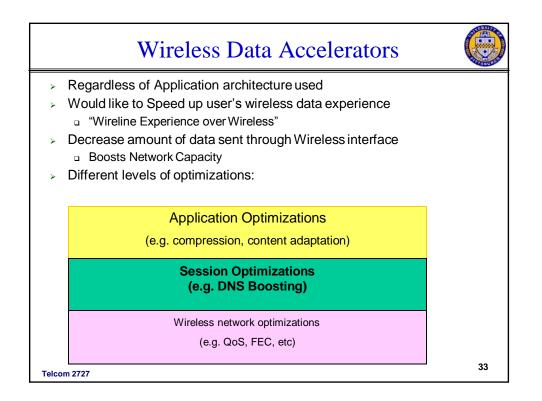


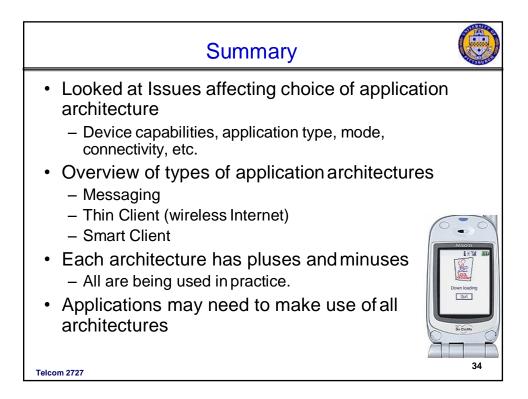


Virtualization	\bigcirc
 Virtualization of resources: a powerful abstraction in systems engineering: Computing examples: virtual memory, virtual devices Virtual machines: JAVA Layering of abstractions: don't sweat the details of the lower layer, only deal with lower layers abstractly In mobile devices virtualize using Sun's Java 2 Micro Edition (J2ME) Run java apps on a java virtual machine (JVM) Microsoft .NET Compact Framework (.NET CF) Run on C# on Microsoft's Common Language Runtime (CLR) platform Qualcomm's Binary Runtime Environment for Wireless (BREW) Run C, C++, Java on BREW for Qualcomm chip set based phones 	Applications Profile (MIDP) Configurations (CDC, CLDC) Java Virtual Machine (JVM, KVM) Operating system (Symbian, Palm, WinCE) Hardware (SH4, ARM, 68k,)
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THANK YOU

This content is taken from the text books and reference books prescribed in the syllabus.