

Laporan Penggunaan

Operating System: Microsoft Windows Vista

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A. Microsoft Windows Vista: Pendahuluan

Windows Vista adalah system pengoperasian yang terbaru selepas Windows XP. Dikeluarkan pada 30 Januari 2007. Versi semasa ialah 6.0 Service Pack 1 (SP1). Antara perubahan dan fitur baru Windows Vista termasuklah antaramuka grafik pengguna dan gaya visual yang telah dikemaskini. Windows Vista mempunyai 6 edisi iaitu Windows Vista Starter, Windows Vista Home Basic, Windows Vista Home Premium, Windows Vista Business, Windows Vista Enterprise dan Windows Vista Ultimate.

Windows Vista Starter

Lebih banyak seperti Windows XP Starter Edition. Mempunyai fungsi yang sangat terhad seperti membenarkan pengguna melaksanakan hanya 3 aplikasi dengan antaramuka pada satu-satu masa, tidak membenarkan sambungan rangkaian dan had bagi memori fizikal ialah 1GB. Hanya untuk pemproses AMD iaitu Athlon XP, Duron, Sempron dan Geode dan pemproses Intel iaitu Celeron, Pentium III dan beberapa model Pentium 4. Had boleh guna untuk cakera padat ialah hanya 250 GB. Beberapa desktop-wallpapers juga tidak boleh dijumpai pada versi Vista yang lain.

Windows Vista Home Basic

Sama seperti Windows XP Home Edition. Mempunyai translucent effects yang kurang pada temanya. Menyokong Desktop Window Manager tapi tanpa efek gelas. Menyokong sehingga 8 GB RAM. Mempunyai Windows Firewall, parental controls, Safety Center, Windows Movie Maker, Windows Photo Gallery dan lain-lain fungsi.

Windows Vista Home Premium

Mengandungi semua fitur yang ada pada Home Basic dan ditambah dengan fitur khas seperti HDTV dan DVD-authoring.

Windows Vista Business

Setara dengan Windows XP Professional. Mempunyai semua fitur Home Basic dan ia juga mempunyai IIS web-server, fax support, Rights Management Services (RMS), file-system encryption, menyokong dual-processor (dua soket), system-image backup and recovery, sokongan fail off-line, versi penuh Remote Desktop yang menyokong rangkaian masuk (incoming connections), keupayaan kolaborasi ad-hoc P2P, Windows ShadowCopy dan beberapa fitur komersil lain.

Windows Vista Enterprise

Sama seperti Vista Business cuma terdapat penambahan-penambahan seperti pakej Multilingual User Interface (MUI), BitLocker Drive Encryption, dan sokongan aplikasi UNIX.

Windows Vista Ultimate

Windows Vista Ultimate menggabungkan semua fitur edisi Home Premium dan Enterprise ditambah dengan "Ultimate Extras".

B. Perbandingan antara Windows Vista dan Windows XP

Windows XP dan Windows Vista mempunyai perbezaan dari segi keselamatannya, teknologi rangkaian, pengurusan dan pentadbiran, antaramuka pengguna dan *mobile computing*. Terdapat banyak kritikan ke atas Windows XP yang berkaitan dengan masalah keselamatannya (sekuriti) dan isu-isu prestasi (performance) manakalau Vista menerima kritikan yang berkaitan dengan prestasi (performance) dan pengaktifan produk. Kritikan lain yang lazim adalah berkenaan dengan integrasinya dengan Digital Rights Management (DRM) (ke dalam sistem pengoperasian) dan teknologi sekuriti User Account Control (UAC).

Keserasian (Compatibility)

Windows Vista menghadapi masalah “backward compatibility” dengan pelbagai games dan program utiliti yang dapat berjalan dalam Windows XP. Sehingga Julai 2007, terdapat kira-kira 2,000 aplikasi yang membawa logo 'Vista Compatibility' khususnya, walaupun secara majoriti daripada aplikasi yang tidak mempunyai logo itu tidak menghadapi sebarang masalah semasa dalam penggunaan.

Prestasi (Performance)

Pelbagai ujian prestasi telah membuktikan bahawa XP mengatasi Vista dalam hal-hal produktiviti yang tertentu. Operasi salin fail adalah salah satu bukti yang menunjukkan Vista melaksanakannya lebih baik daripada XP. Dalam satu ujian yang telah dijalankan oleh CRN Test Center, satu fail bersaiz 1.25 GB telah disalin ke desktop masing-masing daripada satu rangkaian kongsi (network share) dan bagi XP, ia mengambil masa 2 minit 54 saat manakala Vista SP1 pula mengambil 2 minit 29 saat. Dalam ujian-ujian lain yang berkaitan dengan grafik dan juga kelajuan, didapati Vista bukanlah satu pengganti yang sangat baik.

Keselamatan (Security)

Dalam Windows XP, setiap pengguna akan ditetapkan sebagai administrator (by default) melainkan ditambah melalui *Computer Management*. Oleh sebab itu, kebanyakan pengguna menggunakan perisian mereka dengan akses administrator. Maka itu, ini akan menyebabkan mereka akan terdedah kepada ancaman sekuriti.

Fitur (Feature)	Windows XP	Windows Vista
Windows Defender	Boleh didapati sebagai muat turun percuma	Ya
Windows Firewall	Ya	Ya
Windows Security Center	Ya (bermula dengan SP2)	Ya
BitLocker Drive Encryption	Tidak	Ya (Enterprise dan Ultimate sahaja)
Parental controls	Sesetengah (Internet Explorer membenarkan parental control dalam web browsing)	Ya
User Account Control	Tidak	Ya
Data Execution Prevention	Ya (bermula dengan SP2)	Ya

Stail Visual (Visual styles)

Luna ialah stail visual yang default dalam Windows XP. Boleh didapati dalam tiga warna iaitu default (biru), hijau zaitun dan perak. Kecuali edisi Windows XP Media Center yang didatangkan dengan tema default iaitu Royale.

Dalam kebanyakan Windows Vista, tema default adalah Windows Aero. Aero mempunyai efek-efek khas dan juga 'live thumbnails', 'animated transitions' dan 'Flip 3D'. Walau bagaimanapun ia memerlukan kad grafik video yang lebih canggih (high-end), sokongan DirectX 9 dan warna 32-bit ataupun jika tidak Windows Vista akan memaparkan menggunakan stail visual "Windows Vista Basic".

C. Isu-Isu Berkaitan

Sepanjang penggunaan Windows Vista yang terdapat dalam komputer-komputer di Makmal Latihan ICT JPKN, hanya terdapat beberapa isu yang dihadapi setakat ini. Antaranya adalah seperti berikut:

- **Isu IIS (Internet Information Services)**

IIS adalah salah satu isu yang kritikal untuk pembangunan laman web mahupun sistem yang berasaskan web. Salah satu daripadanya adalah dengan menggunakan perisian Adobe Dreamweaver.

Oleh itu, bagi kursus yang melibatkan perkara-perkara yang disebutkan di atas, adalah sukar untuk dijalankan di makmal ICT JPKN. Dalam keadaan yang mendesak, program Virtual PC telah digunakan untuk membolehkan kursus-kursus seperti ini dijalankan di makmal ICT ini.

- **Isu Rangkaian**

Oleh kerana isu sekuriti adalah satu keutamaan dalam Windows Vista, maka ianya telah menjadi ketat dan memerlukan banyak prosedur. Bagi membolehkan perkongsian dalam rangkaian, banyak prosedur yang perlu diambil dan ini merumitkan lagi keadaan.

Note:

1. Bilik Latihan ICT JPKN mempunyai 15 unit komputer yang disewa dari pembekal tempatan.
2. Semua komputer diinstal dengan **Microsoft Windows Vista Business Edition**.

D. Rumusan / Cadangan

Secara keseluruhannya, keadaan ini menunjukkan bahawa Microsoft Windows XP masih lagi menjadi pilihan. Walau bagaimanapun, tidak dinafikan juga bahawa lambat laun Windows Vista perlu juga diterima dan digunapakai.

Dari segi kos, Windows XP merupakan satu pilihan yang lebih murah berbanding Windows Vista, akan tetapi hanya sampai bila ianya boleh digunakan. Mungkin ini perlu dipertimbangkan mengikut keperluan Makmal Latihan ICT JPKN.

The Vista Editions

Vista Edition	Vista Home Basic	Vista Home Premium	Vista Business	Vista Enterprise	Vista Ultimate
Full Price	\$199	\$239	\$299	License only	\$399
Upgrade Price	\$99	\$159	\$199	License only	\$259
Fancy Aero "Glass" UI	No	Yes	Yes	Yes	Yes
User Account Control (UAC)	Yes	Yes	Yes	Yes	Yes
Windows Firewall/Defender	Yes	Yes	Yes	Yes	Yes
IE7 with phishing filter, protected mode	Yes	Yes	Yes	Yes	Yes
Instant Search	Yes	Yes	Yes	Yes	Yes
Maximum supported RAM (32-bit version)	4GB	4GB	4GB	4GB	4GB
Maximum supported RAM (64-bit version)	8GB	16GB	128GB	128GB	128GB
Number of logical CPUs (cores) supported	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Number of physical CPUs supported	1	2	2	2	2
Backup and recover	Yes	Yes	Yes	Yes	Yes
Scheduled backup	No	Yes	Yes	Yes	Yes
Volume Shadow Copy	No	No	Yes	Yes	Yes
BitLocker (drive encryption)	No	No	No	Yes	Yes
SuperFetch	Yes	Yes	Yes	Yes	Yes
"Premium" Games	No	Yes	Yes	Yes	Yes
Media Player 11	Yes	Yes	Yes	Yes	Yes
Photo Gallery	Yes	Yes	Yes	Yes	Yes
Media Center (with HDTV/cablecard support)	No	Yes	No	No	Yes
Windows Movie Maker (with HD support)	No	Yes	No	No	Yes
Windows DVD Maker	No	Yes	No	No	Yes
Remote Desktop	Limited	Limited	Yes	Yes	Yes
Offline Files/Folders	No	No	Yes	Yes	Yes
IIS Web Server	No	No	Yes	Yes	Yes
Meeting Space Interaction	Limited	Yes	Yes	Yes	Yes
Rights Management Services	No	No	Yes	Yes	Yes
Tablet PC Functionality	No	Yes	Yes	Yes	Yes
SideShow	No	Yes	Yes	Yes	Yes
Speech Recognition	Yes	Yes	Yes	Yes	Yes
Fax and Scan	No	No	Yes	Yes	Yes
Ultimate Extras	No	No	No	No	Yes

Windows Vista vs. Windows XP

Windows Vista has:

New features

Improved security

Better overall user experience

Discover new features in Windows Vista

Windows Vista offers a considerable number of new and improved features over Windows XP. Some of these great new features include:

Windows Aero: Windows Vista features a totally different look for its interface—a cleaner, transparent look with impressive graphic quality, not to mention Live Icons and the new Windows Flip 3D feature. Windows Aero requires a higher-end video graphics card; otherwise, Windows Vista is displayed using Windows Basic. Check with your computer manufacturer, or use the Windows Vista Upgrade Advisor to see whether your video card is ready for Windows Aero.

Windows Sidebar: Windows Vista offers a panel (transparent, if you're using Windows Aero) that displays your selection of Windows gadgets—mini-applications that perform useful functions, such as a clock, a calendar, a Microsoft Office Outlook inbox representation, and currency exchange.

Microsoft Windows Media Player 11: While you can download it for Windows XP, this latest and greatest version of Windows Media Player is designed for Windows Vista and shouldn't be missed. With its new graphics-oriented interface, Windows Media Player 11 abandons the text-oriented look and field of previous versions. Did I mention that you can also use Windows Media Player 11 to share your media over your private home network?

Windows Search: One of the most helpful new features in Windows Vista, you can now search for files or applications from almost anywhere. Unlike in Windows XP, with Window Search, you can simply type a few letters of your search request, and the results appear on the fly—a helpful feature when looking for a file or application from the Start menu. For example, type **fir**, and Windows Firewall entries appear in the Start menu.

Enjoy better security

People are concerned about security these days—not only Windows security but also how to protect themselves and their families when using their home computers. Microsoft has addressed both of these issues head on in Windows Vista. Some of the improved security features in the new operating system include:

Parental Controls: Windows Vista includes Parental Controls that let you as the computer administrator set highly specific boundaries for other users, including separate standard user accounts for family members, especially children. You can set very specific rules and usage limitations for individual users. You can set rules such as which sites a certain user can or cannot access and hours during which a particular user can use the computer; you can also curtail access to specific applications and view where other users have been on your computer and on the Web.

Windows Vista User Account Control (UAC): UAC is a new security feature that lets you operate Windows Vista more as a standard user than as a true administrator, where you have complete access to everything. Features that UAC protects, denoted with a multi-colored shield, require your permission or validation before you can access them.

Windows Firewall: Windows Vista now features two different firewalls: the standard firewall that was available in Windows XP and Windows Firewall with Advanced Features. The latter offers true firewall protection, including bidirectional filters, meaning that both incoming and outgoing data are scanned.

Other security features, such as BitLocker Drive Encryption, are available in some editions of Windows Vista. All Windows Vista editions feature the latest version of Windows Defender, Microsoft's anti-spyware application.

An improved user experience

The overall user experience in Windows Vista goes far beyond what is available in Windows XP. Some of the things that I've found really enjoyable are:

The new Start menu: The Start menu displays everything within the context of a single menu. Instead of having to scroll through a list of applications (which took up considerable screen real estate in Windows XP), you can now view a single, collapsible Start menu.

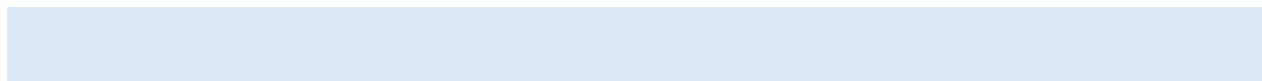
Improved folders: Searching folders is considerably easier in Windows Vista. My Documents, My Music, My Videos, and so on are simplified and appear simply as Documents, Music, Videos. These folders are always present when you search folders. For example, if you're in the Documents folder, folder representations of Music, Videos, Searches, and so on, appear on the left side of the Documents folder.

Live Icons: When you're using Windows Aero, you can hover your mouse over open windows in the task bar and see a live representation of what's running in them. You can get the same preview by using the Windows Flip 3D feature or even by pressing ALT+TAB to toggle windows and folders, which makes navigation much easier.

Faster Operating System. The days of waiting several minutes for Windows XP to load are over; Windows Vista loads within 45 seconds and is ready to go almost instantly. If you have to install Windows Vista, you can perform a full installation in about 35 minutes.

Compare Windows XP to Windows Vista

	Windows XP	Windows Vista	
Enjoy more			
Find, fix, and share photos Organize, edit, and share your favorite photos with family and friends using Windows Photo Gallery .		✓	_____
Find almost anything Find documents, e-mail, photos, and more in a snap through Instant Search .		✓	_____
Turn any room into a media room Manage and enjoy digital photos, music, TV shows, and movies in your living room with Windows Media Center . ^M	✓	✓	_____
Play the way you want Easily install, organize, and play games using Windows Game Explorer .		✓	_____
Make movie magic Retain high-definition quality as you capture, edit, and publish movies from a video camcorder with Windows Movie Maker . ²	✓	✓	_____



	Windows XP	Windows Vista
Worry less		
Help your kids stay safer Help keep your children safer online with customizable Parental Controls .		✓
Back up and restore files Get improved backup and restore functions, including automatically scheduled backups, with Windows Backup and Restore Center .		✓
Help safeguard sensitive data Better protect your data against loss or theft if your mobile PC is ever lost or stolen with Windows BitLocker Drive Encryption . ^B		✓
Guard against external threats Help protect your PC from external threats with Windows Firewall .	✓	✓+
Find and remove spyware Help protect your PC by regularly scanning your computer for spyware with Windows Defender . ³	✓	✓

✓+ Windows XP feature improved in Windows Vista