



**Colegio de San Juan de Letran**  
Dominican Avenue, Abucay, Bataan  
Library and Media Services

## **RESEARCH GUIDE: COMPUTER 10**

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## RESEARCHGUIDES

### COMPUTER HARDWARE SERVICING

#### I. SCOPE NOTE

*Computer Hardware Servicing teaches students how to install, configure and maintain computer systems and networks. It develops students' skills in diagnosis and troubleshooting of computer systems, as well as in the performance of computer operations. [finduniversity.ph](http://finduniversity.ph)*

#### II. SEARCH AIDS (BT: Broader Term, RT: Related Term, NT: Narrow Term)

##### BT:

- Technology

##### RT:

- System Configuration
- Network Configuration
- Branding
- Product Development
- Innovation
- Network System Maintenance
- Computer Maintenance
- Market
- Environment
- Entrepreneurship
- Business Idea
- PEC (Personal Competencies and Skills)

##### NT:

- Computer Hardware
- USP (Unique Selling Proposition)
- Selection Criteria
- Selection Techniques
- Safety Procedures
- SOP (Standard Operations Procedure)
- Internet Protocols (IP)
- Network Security
- File and Printer Sharing
- Networking Devices
- Diagnostics Software
- Defragment
- Scan Disk
- Burn-in Test
- Internet Connectivity
- Computer Communications

- Tasks Documentation
- Cleaning Hardware Components
- Defragment
- PC Specifications

### III. INFORMATION RESOURCES

#### A. LIBRARY RESOURCES

*Note: For the appropriate access credentials, please contact the Letran Bataan Library*

#### ➤ E-JOURNALS

- Journal of Educational Technology & Society.  
[https://www.proquest.com/publication/publications\\_1586335](https://www.proquest.com/publication/publications_1586335)
- Information Technology and Management.  
[https://www.proquest.com/publication/publications\\_25825](https://www.proquest.com/publication/publications_25825)
- TechTrends.  
[https://www.proquest.com/publication/publications\\_40581](https://www.proquest.com/publication/publications_40581)
- International Journal of Computer Science Issues (IJCSI).  
[https://www.proquest.com/publication/publications\\_55228](https://www.proquest.com/publication/publications_55228)
- Journal of Computer & Systems Sciences International.  
[https://www.proquest.com/publication/publications\\_326259](https://www.proquest.com/publication/publications_326259)
- Journal of Strategic Innovation and Sustainability.  
[https://www.proquest.com/publication/publications\\_536313](https://www.proquest.com/publication/publications_536313)
- Computer Networks.  
[https://search.proquest.com/central/publication/publications\\_47119](https://search.proquest.com/central/publication/publications_47119)
- Journal of Brand Management.  
[https://www.proquest.com/publication/publications\\_27139](https://www.proquest.com/publication/publications_27139)
- Journal of Modern Education and Computer Science.  
<http://dx.doi.org/10.5815/ijmeecs.2019.06.03>

#### ➤ E-THESES

- Spensky, C. S. (2020). Analyzing and securing embedded systems (Order No. 28090001). Available from ProQuest Central. (2459269831). Retrieved from <https://www.proquest.com/dissertations-theses/analyzing-securing-embedded-systems/docview/2459269831/se-2?accountid=190548>
- McGee, P. J. (2020). An educational operating system supporting computer security (Order No. 27838086). Available from ProQuest Central. (2395290992). Retrieved from <https://www.proquest.com/dissertations-theses/educational-operating-system-supporting-computer/docview/2395290992/se-2?accountid=190548>
- Momot, R. (2019). Operations management in the interconnected world (Order No. 13859238). Available from ProQuest Central. (2245841772). Retrieved from

<https://www.proquest.com/dissertations-theses/operations-management-interconnect-ed-world/docview/2245841772/se-2?accountid=190548>

- Garringer, J. (2018). The role of protocol analysis in cybersecurity: Closing the gap on undetected data breaches (Order No. 10974156). Available from ProQuest Central. (2155338444). Retrieved from <https://www.proquest.com/dissertations-theses/role-protocol-analysis-cybersecurity-closing-gap/docview/2155338444/se-2?accountid=190548>
- Coughlin, A. (2018). Enabling user space secure hardware (Order No. 10791863). Available from ProQuest Central. (2048203982). Retrieved from <https://www.proquest.com/dissertations-theses/enabling-user-space-secure-hardware/docview/2048203982/se-2?accountid=190548>
- Garishe, S. S. (2017). Protocol for file sharing in mobile ad hoc networks (Order No. 10250745). Available from ProQuest Central. (1868420069). Retrieved from <https://www.proquest.com/dissertations-theses/protocol-file-sharing-mobile-ad-hoc-networks/docview/1868420069/se-2?accountid=190548>
- Freet, D. N. (2017). A security visualization analysis methodology for improving network intrusion detection efficiency (Order No. 10261868). Available from ProQuest Central. (1916581901). Retrieved from <https://www.proquest.com/dissertations-theses/security-visualization-analysis-methodology/docview/1916581901/se-2?accountid=190548>

## B. OPEN ACCESS

### ➤ FREE E-BOOKS

- Comer, Douglas E. (2018). The internet book: Every thing you need to know about computer networking and how the internet works. Boca Raton, FL: CRC Press. <https://www.pdfdrive.com/the-internet-book-everything-you-need-to-know-about-computer-networking-and-how-the-internet-works-e183848463.html>
- Bonaventure, Olivier (2011). Computer networking: Principles, protocols, and practice. (n.p.). <https://www.pdfdrive.com/computer-networking-principles-protocols-and-practice-e17312672.html>
- Mueller, Scott (2004). Upgrading and repairing laptops. Indianapolis, IN: Que. <https://www.pdfdrive.com/upgrading-and-repairing-laptops-e156664740.html>
- Gilster, Ron (2001). PC hardware: A beginner's guide. New York: Osborne/McGraw-Hill. <https://abiiid.files.wordpress.com/2010/12/pc-hardware-a-beginners-guide.pdf>
- Reddy, N. (n.d.). PC hardware maintenance & troubleshooting. (n.p.). <https://www.pdfdrive.com/pc-hardware-maintenance-troubleshooting-in-depth-d186291589.html>

### ➤ FREE E-JOURNALS

- Ad hoc Networks. <https://www.sciencedirect.com/journal/ad-hoc-networks>
- Future Generation Computer Systems. <https://www.sciencedirect.com/journal/future-generation-computer-systems>
- Journal of Parallel and Distributed Computing. <https://www.sciencedirect.com/journal/journal-of-parallel-and-distributed->

[computing](#)

- Computer Networks. <https://www.sciencedirect.com/journal/computer-networks>
- Computers and Security. <https://www.sciencedirect.com/journal/computers-and-security>
- Computers and Standards. <https://www.sciencedirect.com/journal/computers-and-standards>
- Procedia Computer Science. <https://doi.org/10.1016/j.procs.2019.11.211>

#### ➤ FREE E-THESES

- Dastres, R. (2021). A Review in Recent Development of Network Threats and Security Measures. (Thesis). Figshare. Retrieved from <http://hdl.handle.net/10.6084/m9.figshare.13625396.v2>
- Dewar-Robson, R. C. (2020). Scalable network security. (Thesis). Hong Kong University of Science and Technology. Retrieved from <http://repository.ust.hk/Record/1783.1-109099>; <https://doi.org/10.14711/thesis-991012891969203412>; [http://repository.ust.hk/ir/bitstream/1783.1-109099/1/th\\_redirect.html](http://repository.ust.hk/ir/bitstream/1783.1-109099/1/th_redirect.html)
- Charkhgard, P. (2020). The network maintenance problem. (Doctoral Dissertation). University of Newcastle. Retrieved from <http://hdl.handle.net/1959.13/1416256>
- Kelly, S. J. (2017). How do sales and marketing produce business to business value propositions?. (Doctoral Dissertation). Sheffield Hallam University. Retrieved from <http://shura.shu.ac.uk/21050/> ; <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.741588>
- Singh, M. (2017). Connectivity Between Two Distant Sites with Automatic Failover to IPsec. (Thesis). California State University, Long Beach. Retrieved from <http://pqdtopen.proquest.com/#viewpdf?dispub=10262849>
- Amvrosiadis, G. (2016). Unobtrusive Storage Maintenance. (Doctoral Dissertation). University of Toronto. Retrieved from <http://hdl.handle.net/1807/76301>
- Pourreza, S. (2014). File sharing using bittorrent protocol in wireless ad-hoc networks. (Thesis). California State University, Long Beach. Retrieved from <http://pqdtopen.proquest.com/#viewpdf?dispub=1527575>
- Venkataraman, A. (2012). Defragmentation of resources in virtual desktop Clouds for cost-aware utility-maximal allocation. (Masters Thesis). The Ohio State University. Retrieved from [http://rave.ohiolink.edu/etdc/view?acc\\_num=osu1339747492](http://rave.ohiolink.edu/etdc/view?acc_num=osu1339747492)

#### C. PROFESSIONAL ORGANIZATIONS

- Philippine Computer Society. <http://www.philippinecomputersociety.org/>
- CSTA Philippines. <https://philippines.csteachers.org/>
- Association of Software Professionals. <https://asp-software.org/>
- Network Professional Association. <https://www.npa.org/>
- Information Technology Association of the Philippines. [https://www.tpb.gov.ph/alpha\\_listing/information-technology-association-of-the-philippines/](https://www.tpb.gov.ph/alpha_listing/information-technology-association-of-the-philippines/)
- Philippine Society of Information Technology Educators. <http://psite-ncr.org/>

#### D. OTHER RELATED WEB PORTALS

- Stanford Engineering Everywhere. <https://see.stanford.edu/>
- MIT Open Courseware. <https://ocw.mit.edu/courses/#electrical-engineering-and-computer-science>
- GITHUB. <https://github.com/>
- W3 Schools. <https://www.w3schools.com/>
- Code Cademy. <https://www.codecademy.com/catalog>
- Web Design Inspiration. <https://www.webdesign-inspiration.com/web-design/themeforestnet>
- Hungry Sandwich Club. <https://www.webdesign-inspiration.com/web-design/hungrysandwichclub-33269>
- YML. <https://ymedialabs.com/>
- Meg as Multimedia. <http://megasmultimedia.com/>
- Simply Effective. <https://www.simplyeffectivewebdesign.com/five-elements-of-multimedia/>

#### E. RELATED RESEARCH GUIDES

- UC Santa Cruz University Library. <https://guides.library.ucsc.edu/cse>
- Dalhousie University. <https://dal.ca.libguides.com/csci>
- ACC Library Services. <https://researchguides.austincc.edu/CompSci>
- Boatwright Memorial Library. <https://libguides.richmond.edu/c.php?g=41860&p=266893>
- University of Wisconsin – Madison Libraries. <https://researchguides.library.wisc.edu/c.php?g=177945&p=1167577>
- NECC Library. <https://necc.mass.libguides.com/c.php?g=152700&p=1003844>
- University of Michigan Library. <https://guides.lib.umich.edu/c.php?g=282888&p=1888133>
- Dartmouth Library. <https://researchguides.dartmouth.edu/c.php?g=59724&p=382827>
- SJSU Library. <https://libguides.sjsu.edu/c.php?g=230182&p=5640562>

#### IV. TUTORIALS

- Computer hardware servicing - Module 1. <https://www.youtube.com/watch?v=cn69spzoQnU>
- Computer hardware servicing - Module 2. <https://www.youtube.com/watch?v=WtGiAFRg-q8>
- Maintaining computer and network systems. <https://www.youtube.com/watch?v=XrmoWSRFp1E>
- How to turn on file and printer sharing in Windows 10. <https://www.youtube.com/watch?v=0MDvpC8FT0k>
- Diagnostic software tools. <https://www.youtube.com/watch?v=0MDvpC8FT0k>
- Disk defragmentation explained. <https://www.youtube.com/watch?v=AtRIOUZul2c>
- How and when to defragment your hard drive in Windows 10. <https://www.youtube.com/watch?v=wLW-7YTWl2E>
- Computer basics: Connecting to internet. <https://www.youtube.com/watch?v=93-3zmVvCGU>
- The basics of protocols. <https://www.youtube.com/watch?v=ISrJ5ojvOgA>



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