



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

RESEARCH GUIDE: SCIENCE, TECHNOLOGY & SOCIETY

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RESEARCH GUIDES

SCIENCE, TECHNOLOGY & SOCIETY

I. SCOPE NOTE

The course deals with interactions between science and technology and social, political, cultural and economic contexts that shape and are shaped by them. ched.gov.

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

BT:

- Science
- Technology
- Social Science

RT:

- Scientific Advancement
- Technological Advancement
- Human Development
- Social Context
- Political Context
- Cultural Context
- Economic Context
- Historical Context
- Science Education
- Information Age
- Nanotechnology

NT:

- Philippine Society
- World
- Intellectual Revolutions
- Nation Building
- Philippines Government Policies
- Indigenous Science
- Indigenous Technology
- Human Flourishing
- Contemporary Issues
- Ethical Standards
- Human Rights
- Local Government Policies
- Social Media
- Environmental Awareness
- Global Health
- Genetically Modified Organisms

- Gene Therapy
- Climate Change
- Energy Crisis
- Alternative Energy Resources

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

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

➤ E-JOURNALS

- R & D Management. https://www.proquest.com/publication/publications_36079
- Applied Microbiology and Biotechnology. https://www.proquest.com/publication/publications_54065
- Analytical and Bioanalytical Chemistry. https://www.proquest.com/publication/publications_2034506
- Environment, Development and Sustainability. https://www.proquest.com/publication/publications_25739
- Journal of Physics: Conference Series. https://www.proquest.com/publication/publications_4998668
- Cultural Studies of Science Education. https://www.proquest.com/publication/publications_54611
- International Journal of Technology Management. https://search.proquest.com/publication/publications_37154?accountid=190548
- International Journal of Engineering and Environmental Management. https://search.proquest.com/publication/publications_2034737?accountid=190548
- Journal of Science Education and Technology. https://search.proquest.com/publication/publications_2043721?accountid=190548
- Review of Policy Research. https://search.proquest.com/publication/publications_25569?accountid=190548
- Science Technology and Human Values. https://search.proquest.com/publication/publications_48289?accountid=190548

➤ E-THESES

- Shangaris, P. (2020). Can we treat congenital blood disorders by transplantation of stem cells, gene therapy to the fetus? (Order No. 27996287). Available from ProQuest Central. (2419141139). Retrieved from <https://www.proquest.com/dissertations-theses/can-we-treat-congenital-blood-disorders/docview/2419141139/se-2?accountid=190548>
- Hay, C. E. (2020). The development and characterization of anti-methamphetamine antibody-based gene therapies to treat methamphetamine abuse (Order No. 27736263). Available from ProQuest Central. (2394306457). Retrieved from <https://www.proquest.com/dissertations-theses/development-characterization-anti-methamphetamine/docview/2394306457/se-2?accountid=190548>

- DeShore, N. E. (2020). Impact of global health governance on transnational health security threats: An evaluation of the global health security agenda steering group (Order No. 27830174). Available from ProQuest Central. (2393156638). Retrieved from <https://www.proquest.com/dissertations-theses/impact-global-health-governance-on-transnational/docview/2393156638/se-2?accountid=190548>
- Schwab-Cartas, J. (2019). Learning to live our language: Zapotec elders and youth fostering intergenerational dialogue through cellfilms (Order No. 28254634). Available from ProQuest Central. (2514702793). Retrieved from <https://www.proquest.com/dissertations-theses/learning-live-our-language-zapotec-elders-youth/docview/2514702793/se-2?accountid=190548>
- David-Chavez, D. (2019). A guiding model for decolonizing environmental science research and restoring relational accountability with indigenous communities (Order No. 13903608). Available from ProQuest Central. (2311072760). Retrieved from <https://www.proquest.com/dissertations-theses/guiding-model-decolonizing-environmental-science/docview/2311072760/se-2?accountid=190548>
- Arora, M. (2019). Enhancing public health response to health impacts of climate change: Needs, gaps, and opportunities (Order No. 22620188). Available from ProQuest Central. (2314083625). Retrieved from <https://www.proquest.com/dissertations-theses/enhancing-public-health-response-impacts-climate/docview/2314083625/se-2?accountid=190548>
- Park, C. (2017). Technology from the perspective of society and public interest (Order No. 10272097). Available from ProQuest Central. (1933381690). Retrieved from <https://www.proquest.com/dissertations-theses/technology-perspective-society-public-interest/docview/1933381690/se-2?accountid=190548>
- Morris, M. (2017). The impact of advancing technologies upon global human trafficking and sexual exploitation in society today (Order No. 10274680). Available from ProQuest Central. (1896955221). Retrieved from <https://www.proquest.com/dissertations-theses/impact-advancing-technologies-upon-global-human/docview/1896955221/se-2?accountid=190548>
- Schewel, Laura Burbank (2019). Transportation Behavioral Data and Climate Change (Order No. 27665784). Available from ProQuest Central. (2385756617). Retrieved from <https://search.proquest.com/docview/2385756617/74377124A0BC4C61PQ/25?accountid=190548>
- Czerniak, Aaron S. (2019). Energy Recovery from Recycled Food Waste (Order No. 22587321). Available from ProQuest Central. (2305530394). Retrieved from <https://search.proquest.com/docview/2305530394/BBFEBBBA66D94FEAPQ/33?accountid=190548>
- Bieniek-Tobasco, Ashley (2019). The Narrative Impacts of Climate Change Storytelling: A Case Study Evaluation of a Climate Change Documentary Series (Order No. 22616085). Available from ProQuest Central. (2303309422). Retrieved from <https://search.proquest.com/docview/2303309422/74377124A0BC4C61PQ/3?accountid=190548>
- Shestakofsky, Benjamin J. (2018). Working Algorithms: Software Automation and the Future of Work (Order No.10846416). Available from ProQuest Central. (2171770484). Retrieved from <https://search.proquest.com/docview/2171770484/D5739261D1CD4A1EPQ/28?accountid=190548>

- Regas, Phil G. (2018). Provider Willingness to Adopt Telemedicine Technologies into Clinical Practice: A Global Systematic Review (Order No. 10982110). Available from ProQuest Central. (2148259477). Retrieved from <https://search.proquest.com/docview/2148259477/D5739261D1CD4A1EPQ/21?accountid=190548>
- Garvis, David George (2017). The Normative Approach of the Catholic Tradition in the Ethical and Religious Directives for Resolving Ethical Dilemmas Regarding Medical Technology (Order No. 10642566). Available from ProQuest Central. (2008120124). Retrieved from <https://search.proquest.com/docview/2008120124/9A12BC8884FF4568PQ/3?accountid=190548>
- Scott, Sydney E. (2017). The Nature of Natural (Order No. 10274601). Available from ProQuest Central. (1940233055). Retrieved from <https://search.proquest.com/docview/1940233055/F074147AE85A47D8PQ/16?accountid=190548>
- Uy-Tioco, Cecilia S. (2013). TEXTING CAPITAL: Mobile Phones, Social Transformation, and the Reproduction of Power in the Philippines (Order No. 3592005). Available from ProQuest Central. (1435629961). Retrieved from <https://search.proquest.com/docview/1435629961/D5739261D1CD4A1EPQ/1?accountid=190548>
- Premji, Shainur (2010). The development of a framework to evaluate the organisational and policy impacts of the Community Health Information Tracking System (CHITS) in the Philippines (Order No. MR62097). Available from ProQuest Central. (743830614). Retrieved from <https://search.proquest.com/docview/743830614/D5739261D1CD4A1EPQ/12?accountid=190548>
- Mondragon Maldonado, Cristina (2003). The ideological position of scientists towards the science of genetically modified foods and its ethical considerations (Order No. MQ80182). Available from ProQuest Central. (305330331). Retrieved from <https://search.proquest.com/docview/305330331/297C9503FED4EB6PQ/10?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Mathez, Edmund A. & Smerdon, Jason E. (2018). Climate Change: The Science of Global Warming and Our Energy Future (2nd ed.). New York: Columbia University Press. <https://www.pdfdrive.com/climate-change-the-science-of-global-warming-and-our-energy-future-d176359485.html>
- Elbe, Stefan (2018). Pandemics, Pills and Politics: Governing Global Health Security. Baltimore, MD: Johns Hopkins University Press. <https://www.pdfdrive.com/pandemics-pills-and-politics-governing-global-health-security-e176279342.html>
- Hodge, B.K. (2017). Alternative Energy Systems and Applications (2nd ed). Hoboken, NJ: John Wiley & Sons. <https://www.pdfdrive.com/alternative-energy-systems-and-applications-d188576165.html>

- Sangeetha, Jeyabalan, Thangadurai, Devarajan, David, Muniswamy, Abdullah, Mohd Azmuddin (Eds.) (2017). Environmental Biotechnology: Biodegradation, Bioremediation and Bioconversion of Xenobiotics for Sustainable Development. Canada: Apple Academic Press. <https://www.pdfdrive.com/environmental-biotechnology-biodegradation-bioremediation-and-bioconversion-of-xenobiotics-for-sustainable-development-e158141796.html>
- Haick, Hossam (2013). Nanotechnology and Nanosensors: Introduction to Nanotechnology. (n.p.). <https://www.pdfdrive.com/nanotechnology-and-nanosensors-introduction-to-nanotechnology-e187619895.html>
- Panno, Joseph (2005). Gene Therapy: Treating Disease by Repairing Genes. New York: Facts on File. <https://www.pdfdrive.com/gene-therapy-treating-disease-by-repairing-genes-new-biology-e157269204.html>
- Rieth, Michael (2003). Nano-Engineering in Science and Technology: An Introduction to the World of Nano-Design. Singapore: World Scientific Publishing. <https://www.pdfdrive.com/nano-engineering-in-science-and-technology-an-introduction-to-the-world-of-nano-design-series-on-the-foundations-of-natural-science-and-technology-e160983362.html>
- Stern, Paul C. & Kasperson, Roger E. (Eds.) (2010). Facilitating Climate Change Responses. Washington, DC: National Academic Press. <https://www.pdfdrive.com/facilitating-climate-change-responses-a-report-of-two-workshops-on-insights-from-the-social-and-behavioral-sciences-e157857365.html>
- Ngô, Christian, Natowitz, Joseph B. (2009). Our Energy Future: Resources, Alternatives, and the Environment. New Jersey: John Wiley & Sons, Inc. <https://www.pdfdrive.com/our-energy-future-resources-alternatives-and-the-environment-wiley-survival-guides-in-engineering-and-science-e185617076.html>
- David, Kenneth, Thompson, Paul B. (Eds.) (2008). What Can Nanotechnology Learn From Biotechnology: Social and Ethical Lessons for Nanoscience from the Debate Over Agrifood Biotechnology and GMOs. Amsterdam: Elsevier. <https://www.pdfdrive.com/what-can-nanotechnology-learn-from-biotechnology-social-and-ethical-lessons-for-nanoscience-from-the-debate-over-agrifood-biotechnology-and-gmos-food-science-and-technology-e158732708.html>
- Schweitzer, Glenn (Ed.) (2008). Science and Technology and the Future Development of Societies: International Workshop Proceedings. Washington, DC: National Academic Press. <https://www.pdfdrive.com/science-and-technology-and-the-future-development-of-societies-international-workshop-proceedings-e185613961.html>
- Leach, Melissa & Fairhead, James (2007). Vaccine Anxieties: Global Science, Child Health and Society. London: Earthscan. <https://www.pdfdrive.com/vaccine-anxieties-global-science-child-health-and-society-science-in-society-series-e185001944.html>
- Shannon, Thomas A. (Ed.) (2005). Genetics: Science, Ethics, and Public Policy: A Reader. Maryland: Rowman & Littlefield Publishers, Inc. <https://www.pdfdrive.com/genetics-science-ethics-and-public-policy-e194256987.html>

➤ FREE E-JOURNALS

- Science and Technology of Advanced Materials. <https://www.sciencedirect.com/journal/science-and-technology-of-advanced-materials>

- Journal of Environmental Sciences. <https://www.sciencedirect.com/journal/journal-of-environmental-sciences>
- Journal of Biotechnology. <https://www.sciencedirect.com/journal/journal-of-biotechnology>
- Journal of Genetic Engineering and Biotechnology. <https://www.sciencedirect.com/journal/journal-of-genetic-engineering-and-biotechnology>
- Journal of Food Engineering. <https://www.sciencedirect.com/journal/journal-of-food-engineering>

➤ FREE E-THESES

- Li, F. (2020). DNA Nanotechnology: Enabled molecular mechanisms and applications. (Thesis). Purdue University. Retrieved from <http://hdl.handle.net/10.25394/pgs.11842659.v1>
- Lee, Y. (2020). Silent partnership in the age of smart technology. (Masters Thesis). Arizona State University. Retrieved from <http://repository.asu.edu/items/57171>
- Jones, Jacy Nicole (2017). A study on the emergence of ethical thinking in nanotechnology. (Masters Thesis). University of Texas – Austin. Retrieved from <http://hdl.handle.net/2152/47302>
- Azarabadi, H. (2020). Techno-economic analysis of capturing carbon dioxide from the air: positioning the technology in the energy infrastructure of the future. (Doctoral Dissertation). Arizona State University. Retrieved from <http://repository.asu.edu/items/57151>
- Otiniano, E. M. (2019). Comparing gene therapy with current standards of treatment. (Masters Thesis). Boston University. Retrieved from <http://hdl.handle.net/2144/38694>
- Sellars, S. C. (2019). Does crop insurance inhibit climate-change technology adoption? (Thesis). Purdue University. Retrieved from <http://hdl.handle.net/10.25394/pgs.8028851.v1>
- Dentzau, M. W. (2019). The tensions between indigenous knowledge and western science. (Thesis). Columbus State University. Retrieved from https://csuepress.columbusstate.edu/bibliography_faculty/2737
- Johnson, Anna (2020). Documentary Discourses on Climate Change: A Critical Discourse Analysis of an Inconvenient Truth and an Inconvenient Sequel (Dissertation). California State University. Retrieved from <https://www.proquest.com/dissertations-theses/documentary-discourses-on-climate-change-critical/docview/2386211132/se-2?accountid=190548>
- Prazak, Michael David (2019). An Exploration of In-Person and Online Social Interaction: Examining the Effects of Two Domains of Social Behavior (Dissertation). The University of North Dakota. Retrieved from <https://www.proquest.com/dissertations-theses/exploration-person-online-social-interaction/docview/2299817551/se-2?accountid=190548>
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- Budischak, Cory (2012). What will be the role of solar hydrogen in our future energy system? (Dissertation). University of Delaware. Retrieved from <https://www.proquest.com/dissertations-theses/what-will-be-role-solar-hydrogen-our-future/docview/927606211/se-2?accountid=190548>
- Burke, Teresa Blankmeyer (2011). Quest for a deaf child: Ethics and genetics (Dissertation). The University of New Mexico. Retrieved from <https://www.proquest.com/dissertations-theses/quest-deaf-child-ethics-genetics/docview/879050593/se-2?accountid=190548>

C. PROFESSIONAL ORGANIZATIONS

- Department of Science and Technology. <https://www.dost.gov.ph/>
- Philippine Foundation for Science and Technology. <https://www.science-centrum.ph/index.php/about/2-philippine-foundation-for-science-and-technology>
- National Academy of Science and Technology, Phils. (NAST PHL). <https://www.nast.ph/>
- International Science Council. <https://council.science/>

D. OTHER RELATED WEB PORTALS

- Science NetLinks. <http://sciencenetlinks.com/>
- Science Daily. <https://www.sciencedaily.com/>
- Science News. <https://www.sciencenews.org/>
- NOVA. <https://www.pbs.org/wgbh/nova/>
- How Stuff Works. <https://science.howstuffworks.com/>
- NPR Science. <https://www.npr.org/sections/science/>
- Science Gov. <https://www.science.gov/>
- Understanding Science. <https://undsci.berkeley.edu/>
- Science Made Simple. <https://www.sciencemadesimple.com/>

E. RELATED RESEARCH GUIDES

- IOWA State University. <https://instr.iastate.libguides.com/libsci>
- University of St. Thomas. <https://libguides.stthomas.edu/generalscience>
- Library of Congress. <https://guides.loc.gov/science-technology>
- University of Hawaii at Manoa Library. <https://guides.library.manoa.hawaii.edu/sciref/databases>
- Harvard Library. <https://guides.library.harvard.edu/HistSciInfo>

IV. TUTORIALS

- UP Talks: Interaction of Science, Technology and Society Through Time. <https://www.youtube.com/watch?v=PxLNclQQb4>
- Relation Between Science and Technology. <https://www.youtube.com/watch?v=BzrGaoD142k>
- Intellectual Revolution – Science, Technology and Society. <https://www.youtube.com/watch?v=Tsi9UISTiag>
- Science, Technology and Nation Building. <https://www.youtube.com/watch?v=3IPcr6p-wmU>
- Biodiversity and Genetically Modified Organisms.

- <https://www.youtube.com/watch?v=54qtBuNKkj4>
- The Nano World (Nanotechnology and Nanoscience).
<https://www.youtube.com/watch?v=sFaBU7nVDMo>
- Philippine Renewable Energy. <https://www.youtube.com/watch?v=9RWbqjPcN1E>
- Gene Therapy Explained. <https://www.youtube.com/watch?v=xOQFJJOBGM0>
- Social Media in the Philippines. https://www.youtube.com/watch?v=2_hLtQkIvNw
- Interaction of Science, Technology and Society Through Time.
<https://www.youtube.com/watch?v=PxLNciQQb4>
- Causes and Effect of Climate Change. https://www.youtube.com/watch?v=G4H1N_yxBiA
- Who is Leading in Renewable Energy. https://www.youtube.com/watch?v=fyqDC_AKVgE
- Can 100% Energy Power the World. <https://www.youtube.com/watch?v=RnvCbquYeiM>
- Climate Change in the Philippines. <https://www.youtube.com/watch?v=Ag4L4QEWJJM>
- Local Climate Change Action Planning in the Philippines.
<https://www.youtube.com/watch?v=h33Sc3Z9sr4>
- Gene Therapy Basics. <https://www.youtube.com/watch?v=BxEoX6TkitY>
- Promise and Potential Dangers of Gene Therapy.
<https://www.youtube.com/watch?v=iM47rYMqHJU>
- How Does Technology Affect the Environment.
<https://www.youtube.com/watch?v=psT87WvTgwg>
- Impacts of Science and Technology. <https://www.youtube.com/watch?v=4RFq5iFLMA0>

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