

## *COVID-19 : GLOBAL IMPACT AND KOREA'S PERSPECTIVES*

CREDIT	3	INSTRUCTOR	Various Professors
OFFICE		OFFICE HOURS	
TIME	On demand	CLASSROOM LOCATION	Online
E-MAIL			

### [COURSE INFORMATION]

<b>COURSE DESCRIPTION &amp; GOALS</b>	<p>Last year, we had to experience COVID-19 unexpectedly and the whole world has been learning how to manage, fight and survive this unresolved virus until now. From the beginning of COVID-19 spread, South Korea has crafted its own roadmap to make the Korean quarantine model successful which is now called “K-quarantine” as a global standard. To get through a period of global uncertainty, South Korea has been trying to create “New Normal” by applying its own perspectives. We invite 15 experts from diverse fields such as Economics, Business, Sociology, Medicine, Politics and Information Technology. We will listen to their insights and opinions to know more about COVID-19 and to prepare the post-COVID-19 era.</p> <p>The lecture will be provided as pre-recorded contents via our portal system during the program period and Professor Dongil Ahn will have a real time lecture (max. 150 min) via ZOOM. The TA will receive questions from students, deliver them to professors, and reply back to you.</p>
<b>PREREQUISITE</b>	None
<b>COURSE REQUIREMENTS</b>	None
<b>GRADING POLICY</b>	<p>Attendance and Participation 25%</p> <ul style="list-style-type: none"> <li>- View progress rates are checked on a daily basis, and email notifications will be sent to those who have not finished viewing the online courses.</li> <li>- Attendance is assessed every week and students will have to complete viewing the lectures by Thursday, July 22, 18:00 (Korean Time). Viewing them after this time will be considered late and points will be deducted.</li> </ul> <p>Assignments 75%</p> <ul style="list-style-type: none"> <li>- Submit a one-page paper(A4 size) concerning the daily topic after every class to YSCEC.</li> <li>- The weekly due date for a total of 5 papers(Mon-Thur) is 23:00 every Friday (Korean time)</li> </ul>
<b>TEXTS &amp; REFERENCES</b>	
<b>INSTRUCTOR'S PROFILE</b>	

**[WEEKLY SCHEDULE]**

WEEK	DAILY TOPIC	Professor	REFERENCE
1	Pandemics, Plagues and the Shaping of World History	Paul Tonks	
	A Plague on Both Houses: US-China Relations and the COVID Pandemic	John Delury	
	Covid-19 exit strategy and the way forward <b>(Real time lecture on Thursday, 1 July, 2021, 13:30~16:00, Mandatory)</b>	Dongil Ahn(Real Time lecturer)	
2	My Privacy and Data Analytics, COVID-19	Beomsoo Kim	
	Rebalancing toward Localization	Jongryn Mo	
	Fighting against COVID-19 in South Korea: Agility, Adaptability, Transparency, and Participation	M. Jae Moon	
	COVID-19 & Korean Society	Joon Han	
3	COVID19, Uncertainty, and the Macroeconomy	Sangyup Choi	
	COVID-19: Virological Perspective	Wang-Shick Ryu	
	How does physical distancing innovate telemedicine with artificial intelligent (AI)?: Case studies for coronary artery disease and obstructive sleep apnea syndrome (OSAS).	Joon Sang Lee	
	Globalization of the Korean Firms in Crises	Jooyoung Kwak	
4	COVID-19 and Statistical Literacy	Taeyoung Park	
	How to overcome COVID-19 using ICT technology in Korea	Jaeseok Kim	
	Pandemic and Apocalypse in English Literature	Hyungji Park	
	COVID & the Visible Hand	Sunku Hahn	

## *Pandemics, Plagues and the Shaping of World History*

DATE & TIME	Date: Tuesday, June 29, 2021	
LECTURER INFORMATION	NAME	Dr. Paul Tonks
	E-MAIL	<a href="mailto:paultonks@yonsei.ac.kr">paultonks@yonsei.ac.kr</a>
	PROFILE	<p>Associate Professor of Global Intellectual History (Underwood International College) &amp; Associate Vice President for International Affairs: <a href="https://paultonks.academia.edu/">https://paultonks.academia.edu/</a></p> <p>Paul Tonks has taught at Yonsei since 2006. He is a graduate of the University of Oxford, earned his PhD at The Johns Hopkins University, and has held Visiting Research Fellowships at the Institute of Advanced Studies in the Humanities at the University of Edinburgh and the History Department of King's College London. He is a Fellow of the Royal Historical Society and the Royal Society of Arts in the United Kingdom. He is an Executive Committee Member of the Korea Britain Society and serves also as Director of External Affairs at the Korean Society of British History.</p>
LECTURE DESCRIPTION	<p>This lecture provides a succinct and accessible overview of how Disease has shaped World History. It focuses on Pandemics such as the Black Death (Plague) that killed Millions during the Medieval period. We employ a multidisciplinary and broad perspective geographically and chronologically to explain how our world has been so profoundly affected by disease from ancient times until the present era of Covid-19. Students will learn to appreciate and comprehend how large scale and long-term processes such as the historical evolution of Globalization and the development of the modern capitalist world-system must be interpreted in the light of humans' relationship with disease. Our particular focus is the enormous demographic, economic, social, cultural and political transformations brought about by pandemics from the time of the Bubonic Plague through the Spanish Flu in the aftermath of World War One to the current Covid-19 crisis.</p>	
TEXTS & REFERENCES	<p><i>Plagues and Peoples</i> by William H. McNeill</p> <p><i>Globalization: A Very Short Introduction</i> by Manfred Steger</p> <p><i>Plague and the End of Antiquity: The Pandemic of 541-750</i>, Edited by Lester K. Little</p> <p><i>The Black Death: Natural and Human Disaster in Medieval Europe</i> by Robert S. Gottfried</p> <p><i>The Black Death</i> by Philip Ziegler</p> <p><i>The Black Death, 1346-1353: The Complete History</i> by Ole J. Benedictow</p> <p><i>Daily Life During the Black Death</i> by Joseph P. Byrne</p>	



*The Columbian Exchange: Biological and Cultural Consequences of 1492* by Alfred W. Crosby, Jr.

*A Journal of the Plague Year* by Daniel Defoe (1722)

*The Diary of Samuel Pepys* (1659-1669)

## *A Plague on Both Houses: US-China Relations and the COVID Pandemic*

<p><b>DATE &amp; TIME</b></p>	<p>Date: Wednesday, June 30, 2021</p>	
<p><b>LECTURER INFORMATION</b></p>	<p>NAME</p>	<p>John Delury</p>
	<p>E-MAIL</p>	<p>jdelury@yonsei.ac.kr</p>
	<p>PROFILE</p>	<p>Professor of Chinese Studies, Yonsei GSIS</p>
<p><b>LECTURE DESCRIPTION</b></p>	<p>This lecture will explore the significance of the pandemic on US-China relations. How has the emergence of COVID-19 in China and its catastrophic spread in the US affected the US-China relationship? How are domestic politics in both the US and China influencing bilateral ties and “strategic competition”? What were the major trends in US-China relations prior to the outbreak, and have they accelerated, interrupted, or mitigated by the pandemic? How do third party countries in Asia and Europe see these changing dynamics? What can we expect in the future?</p>	
<p><b>TEXTS &amp; REFERENCES</b></p>	<p>TBD—one essay by a leading Chinese expert on the US, one essay by a leading US expert on China, and one essay by a third country expert on US-China relations.</p>	

## *Covid-19 exit strategy and the way forward*

<b>DATE &amp; TIME</b>	<p><b>Date: Thursday, July 1, 2021</b></p> <p><b>Time: 13:30~16:00</b></p>	
<b>LECTURER INFORMATION</b>	NAME	Dongil AHN
	E-MAIL	ahndongil@gmail.com
	PROFILE	Visiting professor, Graduate School of Public Health, Yonsei Univ. Former WHO Representative in Cambodia and Laos
<b>LECTURE DESCRIPTION</b>	<p>Main contents may include the followings:</p> <ul style="list-style-type: none"> <li>a. Reviewing exit strategy of pandemic focusing on impact of Covid-19 vaccine and possible herd immunity with massive vaccination</li> <li>b. Discussing how to prevent future pandemic and emerging zoonotic disease</li> <li>c. Introducing 'One Health' approach addressing animal- human interaction and environmental health</li> </ul>	
<b>TEXTS &amp; REFERENCES</b>	<p>Exit strategy of Covid-19 and One health, Dongil AHN (코로나 출구 전략과 원 헬스, 안동일) <a href="https://drive.google.com/file/d/11CiKCKAsVLSZ2o8iIOAOWPKz82CCAYL3/view">https://drive.google.com/file/d/11CiKCKAsVLSZ2o8iIOAOWPKz82CCAYL3/view</a> (English version will be available by Mar 2021)</p>	

## *My Privacy and Data Analytics, COVID-19*

<b>DATE &amp; TIME</b>	Date: Monday, July 5, 2021	
<b>LECTURER INFORMATION</b>	NAME	Beomsoo KIM
	E-MAIL	beomsoo@yonsei.ac.kr
	PROFILE	Dean and Professor, Graduate School of Information, Yonsei University Director, Barun ICT Research Center Vice-Chair of DGP (Data Governance and Privacy), OECD
<b>LECTURE DESCRIPTION</b>	<p>To counter the COVID-19 pandemic, new information technologies are being developed and rolled out to automate labor intensive tasks critical to containing the spread of the virus, such as contact tracing. Businesses in the private sector like Apple and Google also developed a collaborative privacy-preserving framework based on Bluetooth technology. Governments or public sector institutions in Hong Kong, China, Singapore as well as South Korea also developed and deployed various contact tracing related services and are enforcing public policies on these technologies and services.</p> <p>In this lecture, we review and compare six major contact tracing services used in Korea, Hong Kong, China, Singapore, and Apple &amp; Google's privacy-preserving contact tracing systems to help combat the virus and save lives. Key elements of these technologies including AI, Bluetooth, GPS, location data, cryptography, and data analytics are explained. From engineering and economical perspectives, the benefits and costs of these technologies will be discussed. In addition, social benefits and privacy concerns of individuals and professionals will be debated.</p>	
<b>TEXTS &amp; REFERENCES</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Lecture notes in MS-PowerPoint format will be distributed and used.</li> <li><input type="checkbox"/> Apple &amp; Google, Privacy-preserving contact tracing, <a href="https://www.apple.com/covid19/contacttracing">https://www.apple.com/covid19/contacttracing</a></li> <li><input type="checkbox"/> Korea MOHW, COVID-19 Korean Government Response Systems, <a href="http://ncov.mohw.go.kr">http://ncov.mohw.go.kr</a></li> <li><input type="checkbox"/> OECD, Tackling coronavirus (COVID-19), <a href="https://www.oecd.org/coronavirus/en/">https://www.oecd.org/coronavirus/en/</a></li> </ul>	

## *Rebalancing toward Localization*

<b>DATE &amp; TIME</b>	Date: Tuesday, July 6, 2021	
<b>LECTURER INFORMATION</b>	NAME	Jongryn MO
	E-MAIL	jrmo@yonsei.ac.kr
	PROFILE	Professor of International Political Economy Graduate School of International Studies
<b>LECTURE DESCRIPTION</b>	<p>De-globalization has begun. The future of the global economy depends on whether and how de-globalization works to rebuild the local economy. If the local economy comes out of de-globalization stronger and sustainable, it may lay the foundation for re-globalization in the foreseeable future. If de-globalization takes the form of nationalism and protectionism, the chance of globalization returning any time soon will be slim. Whether or not a country succeeds in channeling the pressure of de-globalization into localization depends on the creative capacity of local communities and this lecture will review the status of the local economy in Korea and explore the possibility of local renewal and a locally sustainable model of globalization.</p>	
<b>TEXTS &amp; REFERENCES</b>	Jongryn Mo, Alleyway Capitalism, 2017	



*Fighting against COVID-19 in South Korea: Agility, Adaptability,  
Transparency, and Participation*

<p><b>DATE &amp; TIME</b></p>	<p>Date: Tuesday, July 7, 2021</p>	
<p><b>LECTURER INFORMATION</b></p>	<p>NAME</p>	<p>M. Jae Moon</p>
	<p>E-MAIL</p>	<p><a href="mailto:mjaemoon@gmail.com">mjaemoon@gmail.com</a></p>
	<p>PROFILE</p>	<p>Dean of College of Social Sciences Director of Institute for Future Government Professor of Department of Public Administration,</p>
<p><b>LECTURE DESCRIPTION</b></p>	<p>Governments are being put to the test as they struggle with the fast and wide spread of COVID-19. This lecture aims to review the compelling challenges posed by the COVID-19 pandemic by examining how this wicked problem has been managed by the South Korean government with agile-adaptive, transparent actions to mitigate the sudden surge of COVID-19. Unlike many western countries, the South Korean government has been able to successfully contain the spread of COVID-19 without a harsh forced lockdown of the epicenter of the virus. This article argues that an agile-adaptive approach, a policy of transparency in communicating risk, and citizens' voluntary cooperation are critical factors. This lecture also discusses that the South Korean government learned costly lessons from the MERS failure of 2015. This lecture attempts to find ways different countries can manage future wicked problems like COVID-19 without paying too much cost and maintaining quality of life in open and free societies</p>	
<p><b>TEXTS &amp; REFERENCES</b></p>		

## *COVID-19 & Korean Society*

<b>DATE &amp; TIME</b>	Date: Thursday, July 8, 2021	
<b>LECTURER INFORMATION</b>	NAME	Joon Han
	E-MAIL	<a href="mailto:joonhan@yonsei.ac.kr">joonhan@yonsei.ac.kr</a>
	PROFILE	Ph.D. Stanford University Professor of Sociology, Yonsei University President, Korea Association for Quality of Life Studies
<b>LECTURE DESCRIPTION</b>	<p>Contagion of corona virus depends on the social relations among people. Patterns of social relationship and behavior in social interaction are important in understanding how society as a whole deal with crisis such as Covid-19. This lecture focuses on the social structural and cultural aspects of Korean society to explain how Korea with high population density was able to deal with Covid-19 successfully. Lecture also touches on the social network dynamics of corona virus transmission, as well as on the social impact of Covid-19 in Korea.</p>	
<b>TEXTS &amp; REFERENCES</b>	TBA	

## *COVID19, Uncertainty, and the Macroeconomy*

DATE & TIME	Date: Monday, 12 July 2021 Time: 13:30~16:00	
LECTURER INFORMATION	NAME	SANGYUP CHOI
	E-MAIL	<a href="mailto:sangyupchoi@yonsei.ac.kr">sangyupchoi@yonsei.ac.kr</a>
	PROFILE	Assistant Professor (School of Economics)
LECTURE DESCRIPTION	<p>This short course is aimed to provide a perspective on the uncertainty induced by COVID-19 and its impact on the global economy as well as the Korean economy. Since uncertainty is intangible, we learn various ways of measuring it and apply these measures to study the effect of COVID-19 uncertainty on the macroeconomy and financial markets using actual data.</p>	
TEXTS & REFERENCES	Textbooks are not required.	

## *COVID-19: Virological Perspective*

<b>DATE &amp; TIME</b>	Date: Tuesday, July 13, 2021	
<b>LECTURER INFORMATION</b>	NAME	Wang-Shick Ryu
	E-MAIL	wsryu@yonsei.ac.kr
	PROFILE	Professor, Department of Biochemistry Director (CEO), Institut Pasteur Korea University of Wisconsin-Madison, Ph.D.
<b>LECTURE DESCRIPTION</b>	<p>COVID-19 presents a continuing threat to human being. Global community suffers from astronomical economic loss.. Lockdown, social distancing, and untact business became household vocaburary. Unfortunately, even after considerable casualties and damage, COVID-19 have not subsided yet. No effective therapy is yet available and vaccine is still a long way to go. Social distancing is the only effective measure for the prevention of viral spread.</p> <p>SARS-CoV-2 represents an uncharacteristic virus in many respects: highly transmissibility and highly virulence. The lecture is aiming to cover a number of scientific questions regarding the control of SARS-CoV-2, including the biological features, and viral pathology. Progress made in vaccine development and antiviral drugs will be covered. Notably, South Korea is praised in Disease Control with an immediate implementation of 3T policy (trace, track, and test) by the public health authority. Our own perspective will be discussed in the context of COVID-19 response. Last, Drug Repurposing Strategy for the antiviral therapy carried out by Institut Pasteur Korea will be presented.</p>	
<b>TEXTS &amp; REFERENCES</b>	Wang-Shick Ryu, "Molecular Virology of Human Pathogenic Viruses", Academic Press, 2016.	

*How does physical distancing innovate telemedicine with artificial intelligent (AI)?; Case studies for coronary artery disease and obstructive sleep apnea syndrome (OSAS).*

DATE & TIME	Date: Wednesday, July 14, 2021	
LECTURER INFORMATION	NAME	LEE JOON SANG
	E-MAIL	<a href="mailto:joonlee@yonsei.ac.kr">joonlee@yonsei.ac.kr</a>
	PROFILE	<p>Prof. Joon Sang Lee received his Ph.D. in Mechanical Engineering from Iowa State University. During his Ph.D. he worked on large eddy simulation (LES) of turbulent flows with heat transfer. Before he joined the School of Mechanical Engineering at Yonsei University, South Korea in 2009, he was Assistant Professor of Mechanical Engineering at Wayne State University, USA. His research interests include computational fluid dynamics (CFD) and biological (rheological) flows. Since 2004 he has published more than 70 peer reviewed journal articles collaborating with overseas institutions, including Los Alamos National Laboratory, National Institute of Standard and Technology (NIST), U.S. Army Research Laboratory, Center for Ocean Land Atmosphere Studies, the University of Sydney, and the National Oceanic Atmospheric Administration (NOAA).</p>
LECTURE DESCRIPTION	<p>This class aims to discuss the disease prediction for cardiovascular in a non-contact mode in COVID19 pandemic. We will discuss computer simulation methods, machine learning technology, and physiology for diagnosis/prediction and experience in various demands of biomedical engineering.</p>	
TEXTS & REFERENCES	<ol style="list-style-type: none"> <li>1. Accelerated lattice Boltzmann model for colloidal suspensions: rheology and interface morphology by Farhat et al. (2014)</li> <li>2. Munson's Fluid Mechanics by Gerhart, Gerhart, Hochstein</li> </ol>	

## *Globalization of the Korean Firms in Crises*

<b>DATE &amp; TIME</b>	Date: Thursday, July 15, 2021	
<b>LECTURER INFORMATION</b>	<b>NAME</b>	Jooyoung Kwak
	<b>E-MAIL</b>	jooyoung.kwak@yonsei.ac.kr
	<b>PROFILE</b>	Professor of International Business, School of Business
<b>LECTURE DESCRIPTION</b>	<p>This session examines the responses of Korean firms in managing global markets to the crises. We have a periodic review for the growth of Korean firms and identify three types of crisis: Asian Financial Crisis in 1997, Global Financial Crisis in 2007 and the COVID-19 in 2020. Strength, weakness, opportunities and threats posed to the Korean firms in each crisis are presented. We discuss how the current COVID-19 would affect the globalization of the Korean firms.</p>	
<b>TEXTS &amp; REFERENCES</b>	N.A.	

## *COVID-19 and Statistical Literacy*

<b>DATE &amp; TIME</b>	Date: Monday, July 19, 2021	
<b>LECTURER INFORMATION</b>	NAME	Taeyoung Park
	E-MAIL	tpark@yonsei.ac.kr
	PROFILE	Taeyoung Park is currently Professor of Applied Statistics and Associate Dean of University Planning and Development at Yonsei University. Prior to coming to Yonsei, he was Assistant Professor of Statistics at the University of Pittsburgh. He received his PhD and AM from the Department of Statistics at Harvard University and his BA in Applied Statistics from Yonsei University.
<b>LECTURE DESCRIPTION</b>	<p>Due to the COVID-19, it became a routine practice for us to check out the number of new cases when we get up in every morning. Believe it or not, COVID-19 is pouring huge amounts of data worldwide every day, and it was also critical to make a personal decision by selectively accepting information. In fact, besides COVID-19, our daily lives produce the flood of big data that are large, complex, and rapidly growing. This means that it is not an option but a necessity for us to possess statistical literacy to understand the big data. In this lecture, we will understand data by COVID-19 and go over some essential knowledge of statistics in layman's terms.</p>	
<b>TEXTS &amp; REFERENCES</b>		

## *How to overcome COVID-19 using ICT technology in Korea*

<b>DATE &amp; TIME</b>	Date: Tuesday, July 20, 2021	
<b>LECTURER INFORMATION</b>	NAME	Jaeseok Kim
	E-MAIL	jaekim@yonsei.ac.kr
	PROFILE	<p>Professor, School of Electrical &amp; Electronic Engineering                  Director, IT SoC Research Center                  Yonsei University                  - Worked at AT&amp;T Bell Labs, NJ, USA</p>
<b>LECTURE DESCRIPTION</b>	<p>In a situation where the COVID-19 is widely spreading around the world, Korea is known as a country that has successfully prevented its spread using ICT technologies.</p> <p>In this lecture, I would like to introduce various quarantine activities to overcome COVID-19 using ICT technologies in Korea in four categories:</p> <ol style="list-style-type: none"> <li>1) COVID-19 prevention plans using ICT</li> <li>2) Online education and smart working platform</li> <li>3) Infected person tracking and tracing system</li> <li>4) AI-based COVID-19 treatments and vaccine development</li> </ol> <p>In addition, I will briefly mention the new law amendments to make such quarantine activities possible.</p> <p>I hope that our experiences of overcoming COVID-19 using ICT technologies will be applied to other countries to overcome COVID quickly.</p>	
<b>TEXTS &amp; REFERENCES</b>	PPT materials will be available one week before the lecture date.	



## *Pandemic and Apocalypse in English Literature*

DATE & TIME	Date: Wednesday, July 21, 2021	
LECTURER INFORMATION	NAME	Hyungji Park
	E-MAIL	hyungji@yonsei.ac.kr
	PROFILE	Professor of English Literature
LECTURE DESCRIPTION	<p>This class will explore selected texts from English literature to consider the idea of plague and apocalypse in the eighteenth and nineteenth centuries. Our main texts will be Daniel Defoe's <i>A Journal of the Plague Year</i> (1722) and Thomas Malthus's <i>An Essay on the Principle of Population</i> (1798). We will consider how Defoe depicts daily life under a pandemic in London, and how Malthus considers natural disasters and pandemics to be forms of human population control. We will also briefly consider Mary Shelley's <i>The Last Man</i> (1826), often considered the first apocalyptic novel in the English language, as well as Richard Jefferies' <i>After London</i> (1885), both of which depict futuristic worlds after apocalyptic events.</p>	
TEXTS & REFERENCES	<p>Selections from:</p> <p>Daniel Defoe, <i>A Journal of the Plague Year</i> (1722)</p> <p>Thomas Malthus, <i>An Essay on the Principle of Population</i> (1798)</p> <p>Mary Shelley, <i>The Last Man</i> (1826)</p> <p>Richard Jefferies, <i>After London</i> (1885)</p>	

## *COVID & the Visible Hand*

<b>DATE &amp; TIME</b>	Date: Thursday, July 22, 2021	
<b>LECTURER INFORMATION</b>	<b>NAME</b>	Hahn, Sunku
	<b>E-MAIL</b>	hahn@yonsei.ac.kr
	<b>PROFILE</b>	Professor, school of economics Vice President for International Affairs, Yonsei University
<b>LECTURE DESCRIPTION</b>	<p>Since Adam Smith, the founder of Economics, talked about the virtue of “Invisible Hand”, a small government has become the goal of many economic policy makers as well as an individualism. However, the principle of “invisible Hand” is being questioned under the circumstance of the pandemic of COVID-19. In this lecture, we will deal with the questions on the direction of future human society from economist’s point of view.</p>	
<b>TEXTS &amp; REFERENCES</b>	none	