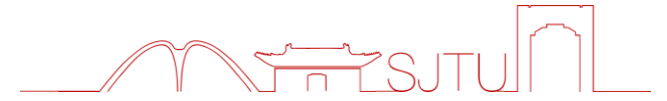




上海交通大学
SHANGHAI JIAO TONG UNIVERSITY



“Jiao Tong Global Virtual Classroom” Initiative Spring 2023

International Affairs Division
Shanghai Jiao Tong University

November, 2022

饮水思源 · 爱国荣校

1

General Introduction

2

Practice: Jiao ◦ Tong GVC

3

Call for Spring 2022

Background

COVID-19:

Physical Mobility ✗

Post-pandemic Era:

Mind Mobility ✓

Industrial Age



Information Age

Online education plays an increasingly important role.

Virtual exchange is an excellent opportunity for physical mobility.

Pilot



APRU-VSE



APRU



Shanghai Jiao Tong University

Shanghai, China

First day of classes: From February 22, 2021

CL025	Two Thousand Years of Sino-foreign Cultural Exchanges
CL-036	Elementary Chinese 1
EV352	Ecological Engineering
MA418	Lie Groups and Lie Algebras
MT207	Fundamentals of Materials Science
PE002C06	简化太极拳 (Simplified Taijiquan)

APRU-VSE SJTU Page:

<https://vse.apru.org/shanghaijiao-tong-university-202101/>

Spring 2021

Institutions	# Students
The Chinese University of Hong Kong	7
Nanyang Technological University	1
Hong Kong University of Science and Technology	1
Chulalongkorn University	1
Universidad San Francisco de Quito	1
Total: 11 Students in 4 Courses	

Pilot

U21 “Global Classroom & SDGs”



U21 GLOBAL EDUCATION FUND



上海交通大学
SHANGHAI JIAO TONG UNIVERSITY



Tecnológico
de Monterrey



Spring 2021

Institutions	Courses	Primary SDGs	# Students
UC Davis	Plant Biochemistry	Good Health and Well-Being	58
SJTU	Traditional Medicine		27

What's Next?

- 2021 International Virtual Exchange Conference (IVEC)
- Toolkit
- More collaborations



上海交通大学
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Jiao O Tong **2021**
Global Virtual Classroom

- ✓ Both internationalization of higher education and “go digital” are **inevitable trend**
- ✓ “Jiao o Tong GVC” committed to brain ‘gain’ and capacity building, global competence strengthening **in a long run**



Faculty

- collaborate with peers at universities around the world
- co-create collaborative online international learning courses



Students

- gain global perspectives
- deepen their understanding of the subject matter and cross-culture

Approach

Selection of Courses

**Selected
Academic
Courses**

**Taught in
English**

**Undergrad and
Postgrad levels**

**China-specific and
SJTU Features**



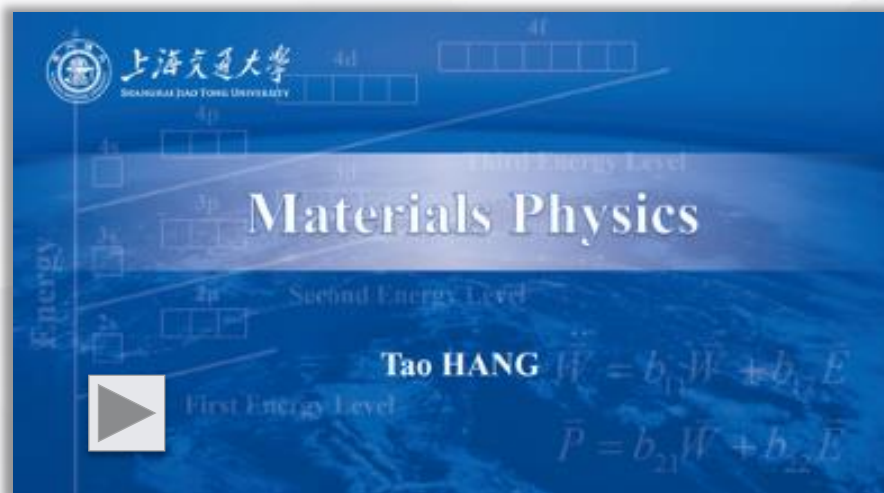
Approach

Website for the platform

Website built for Jiao Tong GVC

- Introduction(incl. video)
- Syllabus
- Pre-req.

❖ Sample Introduction video



A screenshot of the 'Global Virtual Classroom' website. The header includes the Shanghai Jiao Tong University logo, 'International Affairs Division Office for Hong Kong, Macao and Taiwan', and navigation links: HOME, ABOUT US, NEWS&EVENTS, ENGAGEMENT, TRAINING, STUDY OVERSEAS, STUDY@SJTU, and a language toggle (中文). The main banner features the title 'Global Virtual Classroom' and an illustration of people interacting with a large screen. Below the banner, there's an 'Introduction' section and a 'Courses Details' section. The 'Courses Details' section is a grid of course cards. Each card includes a course title, a brief description, the school, and the number of credits. The courses listed are: AE8104 Finite Element Analysis of Composites (School of Aeronautics and Astronautics, 3 credits), GE6001 Scientific Writing, Integrity and Ethics (School of Biomedical Engineering, 1 credit), MSE2605 Fundamentals of Materials Science Part I (School of Materials Science & Engineering, 3 credits), MT319 Materials Physics (School of Materials Science and Engineering, 4 credits), ICE6202 Digital Image Processing (School of Electronic Information and Electrical Engineering, 3 credits), BIO8101 Application of Viral Techniques and Introduction to Molecular Virology (School of Life Sciences and Biotechnology, 2 credits), MATH9111 Basic Geometric Mechanics (School of Mathematical Sciences, 3 credits), and SP166 Ocean Science (School of Naval Architecture, Ocean and Civil Engineering, 2 credits). A dropdown menu for 'ALL' is located at the top right of the course grid.

Approach



GVC Classroom

Upgrade existing
smart classroom into
GVC Classroom



Front Side



Back Side

**Engage both on-line &
off-line students together
into a same classroom**

Collaboration Models



Shared Courses

SJTU classroom

+

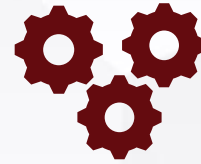
Overseas students

Model A: Synchronous Teaching

Model B: Asynchronous + Tutorial

.....

*Course credits can be mutually recognized.



Co-built Courses

Faculty peers around the world

+

Domestic & Overseas students

Model A: Synchronous Teaching

Model B: Problem Based Learning

.....

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INSA INSTITUT NATION.
DES SCIENCES
APPLIQUÉES
LYON

H
T
W
G

Hochschule Konstanz
University of Applied Sciences

Technical
University
of Munich

TUM

 **慶應義塾**
Keio University

東京工業大学
Tokyo Institute of Technology



UC DAVIS
UNIVERSITY OF CALIFORNIA

**U21 Global Education Fund
Co-built Courses**

 **USC** University of
Southern California

Co-built Courses

 **Tecnológico
de Monterrey**


U21 Global Education Fund

 **UNIVERSIDAD
DE CHILE**

 **東京大学**
THE UNIVERSITY OF TOKYO

**Agreement on
Online Courses**

 **大阪大学**
OSAKA UNIVERSITY
**Agreement on
Online Courses**

 **UNSW
SYDNEY**

 **THE UNIVERSITY OF
SYDNEY**

 **香港大學**
THE UNIVERSITY OF HONG KONG

 **香港浸會大學**
HONG KONG BAPTIST UNIVERSITY

	Universities	Countries/Regions	Participants
Spring 2021	5	4	11+58=69
Fall 2021	17	10	91+10=101
Spring 2022	20	10	101+103=204
Fall 2022	23	13	88+15=103

 **WARWICK**
THE UNIVERSITY OF WARWICK

 **UCL**

 **KIT**
Karlsruher Institut für Technologie
Co-built Courses

 **UNWE**
UNIVERSITY OF NATIONAL AND WORLD ECONOMY
1920
SOFIA • ANKARA

 **PKUST**
PEKING UNIVERSITY OF SCIENCE AND TECHNOLOGY
1986
北京

 **香港中文大學**
The Chinese University of Hong Kong

 **NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

"Shared Courses"

5+ Overseas
Students

Courses of
Spring 2022 & Fall 2021

20/38

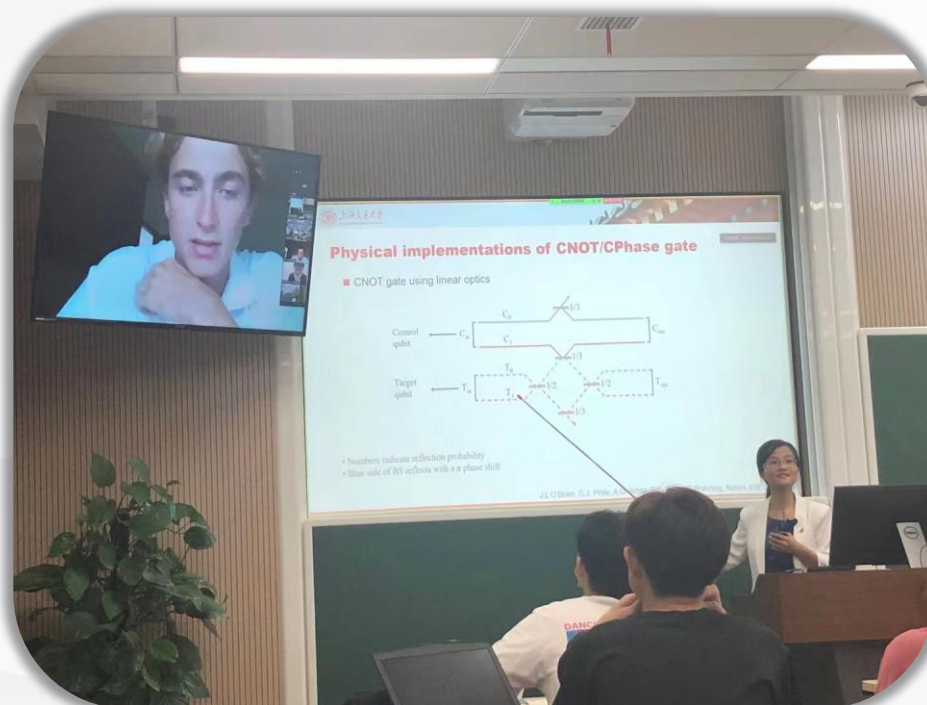
Course Example:
"Quantum Information Technologies
and A Practical Module"

Overseas Students

5



香港大學
THE UNIVERSITY OF HONG KONG



“Co-built Courses”

Semester	Course Name	School of SJTU	Partner University	Participants
Fall 2022	Internet and Society	USC-SJTU Institute of Culture and Creative Industry	University of Southern California, USA	USC:15 SJTU: 45
Spring 2022	Differential Geometry	UM-SJTU Joint Institute	Karlsruhe Institute of Technology, Germany	KIT: 60 SJTU: 9
	Intercultural Communication	School of Media and Communication	The University of California, Davis, USA	UC Davis: 43 SJTU: 30



Students' Feedback



慶應義塾
Keio University

"... I am very happy to interact with both SJTU students and international online students through the homework. I feel like I am studying in Shang Hai, now! "

*"...Thanks so much for all the support throughout the process and **the amazing study experience I obtained virtually at SJTU.**"*



THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY

UCDAVIS
UNIVERSITY OF CALIFORNIA

*"... I can confidently say **this project was a joy. I didn't expect to become as close to my group members as I did, and we maintained a close communication throughout the time together...**"*

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Call for Spring 2023



Matters Need Attention

Call for Spring 2023

☐ Selection of Courses

- Academic courses in all disciplines delivered in English
- Courses already offered at SJTU
- Suggested teaching time (GMT+8): early morning, afternoon or evening

☐ **Application Deadline:** 17:00 p.m., Friday, 18 November, 2022 (UTC+8)

☐ **Time for Review:** End of November, 2022



上海交通大学

SHANGHAI JIAO TONG UNIVERSITY

**Look forward to
your participation!**

Program Coordinator:

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Office of Global Partners & Relations

International Affairs Division

Shanghai Jiao Tong University (SJTU)

饮水思源 爱国荣校