



**Politecnico
di Torino**



Tongji University

POLITONG PROJECT

**Tongji University
Shanghai, China**

a.y. 2024/2025

Politong Current Programmes

- Bachelor ICT (Inform & Comp. Tech.) area:
 - Computer Engineering
 - Electronic Engineering
 - Electronic and Communication Engineering (ECE)
- Bachelor MPE (Mechanical & Production Engineering) area:
 - Mechanical Engineering

Politong – ECE, Electronic eng., Computer eng.

Program Timeline



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1 st YEAR	2 nd YEAR	3 rd YEAR	<i>additional semester</i>
Bachelor program in Computer Engineering, Electronic Engineering, ECE	Bachelor program in Electronic Information Engineering	Bachelor program in Computer Engineering, Electronic Engineering, ECE	Bachelor program in Electronic Information Engineering
in Italy – Torino	in China – Shanghai	in Italy – Torino	in China – Shanghai

Italian BSc degree in Ingegneria
Informatica/Computer Engineering,
Ingegneria Elettronica or ECE

Chinese BSc degree in Engineering in Electronic Information Engineering

Politong – ECE, Electronic eng., Computer eng.

First Year (in Italy)

- First year classes in Torino (Italian or English)
- Ask to enter the PoliTong program
 - Apply: by January 11th 2024
 - Pass “Analisi Matematica I” within winter exam session a.y. 2023/24
 - Results and Interview: ~ March (from I sem. results)
- April: start Chinese language course
- Pass 37 credits by July 2024

Politong – ECE, Electronic eng., Computer eng.

Second Year (in China)

- Classes given in English
- Courses in the Tongji University Catalogue
- Professors from the two Universities
 - About 1/7 from Politecnico (TO)
 - About 6/7 from Tongji University

Politong – ECE, Electronic eng., Computer eng.

Second Year – Study plan

FIRST SEMESTER

Tongji University Courses	PoliTO Courses for credit recognition	CFU
Circuit theory	Information Technology Engineering 1	35
Physics		
Complex functions and integral transform		
Analogue electronics		
Signal and systems		
Communication technologies		
Mathematics II		
Advanced programming		
Digital Signal Processing (to be arranged in the latter part of the semester)		
*Chinese Language 1	Required for Chinese B.Sc. title	
*General View of China 1		

NOTE: Tongji courses have typical size equivalent to approx 2-4 CFU.

Politong – ECE, Electronic eng., Computer eng.

Second Year – Study plan

SECOND SEMESTER

Tongji University Courses	PoliTO Courses for credit recognition	CFU
Communication networks	Information Technology Engineering 2	25 (ECE) / 23 (ELN & INF)
Electronic devices		
Digital electronics		
Software engineering		
Computer architecture		
*Chinese Language 2	Required for Chinese B.Sc. title	
*General View of China 2		

NOTE: Tongji courses have typical size equivalent to approx 2-4 CFU.

Politong – ECE, Electronic eng., Computer eng.

Third Year (in Italy)

- Take BSc courses of the ICT area (see Didattica portal, Orientamento "Information technology engineering" – Shanghai)
 - Classes given in Italian or in English
 - Mandatory internship
 - 2nd year exams not previously passed (if any) organized in accordance to Tongji University schedule & rules
- Receive the Italian BSc degree in
 - Computer Engineering
 - Electronic Engineering
 - ECE

Politong – Mechanical Engineering

Program Timeline



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1 st YEAR	2 nd YEAR	3 rd YEAR	<i>additional semester</i>
Bachelor program in Ingegneria Meccanica or Mechanical Engineering	Bachelor program in Ingegneria Meccanica or Mechanical Engineering	Bachelor Program in Machine Design & Manufacturing and their Automation	Bachelor Program in Machine Design & Manufacturing and their Automation
in Italy – Torino	in Italy – Torino	in China – Shanghai	in China – Shanghai

Italian BSc degree in Ingegneria Meccanica or Mechanical Engineering

Chinese BSc degree in Engineering in Machine Design & Manufacturing and their Automation

Politong – Mechanical Engineering

First & Second Year (in Italy)

- First and second year classes in Torino with regular study plan (Ingegneria Meccanica / Mechanical Eng.)
- Ask to enter the PoliTong program
 - Apply: by January 11th 2024
 - Pass 46 CFU within December 2023
 - Results and Interview: ~ March
- Second year, 2nd semester courses:
Applied mechanics (10 CFU)¹, Experimental statistics and mechanical measurement (6 CFU)¹, Fundamentals of Engineering Thermodynamics and Heat Transfer (8 CFU)¹, Fundamentals of thermal machines (6 CFU)²
 1. regular courses from the standard program in Bsc Ing. Meccanica / Mechanical Eng.
 2. specific course for Politong Program; it substitutes the standard course Fundamentals of thermal and hydraulic machines and fluid power (10 CFU)
- April: start Chinese language course
- Pass 88 credits by July 2024

Politong – Mechanical Engineering

Third Year (in China) – Study Plan

FIRST SEMESTER

Tongji University Courses	PoliTO Courses for credit recognition	CFU
Fundamentals of Control Engineering	Mechanical engineering 1	13
Course Project for Fundamentals of Control Engineering		
Robotics Technology		
Circuits Theory		
Experiments for Major Courses	Mechanical engineering 2	13
Innovation and Entrepreneurship Project		
Foundation of Mechanical Manufacturing Technology		
Course Project for Foundation of Mechanical Manufacturing Technology		
Production Systems		
Manufacturing Engineering Digitalization Technology	Required for Chinese B.Sc. title	
Chinese Language 1		
General View of China 1		

NOTE: Tongji courses have typical size equivalent to approx 2-4 CFU. They are gathered in 4 cluster courses for 13 CFU each for credits recognition in PoliTO

Politong – Mechanical Engineering

Third Year (in China) – Study Plan

SECOND SEMESTER

Tongji University Courses	PoliTO Courses for credit recognition	CFU
Mechanical Design	Mechanical engineering 3	13
Course Project for Mechanical Design		
Sensor and Testing Technology		
Course Project for Sensing & Testing Technology		
Intelligent Manufacturing Equipment		
Engineering Management and Economics		
Professional practice	Mechanical engineering 4	13
Innovative Design in Mechanical Engineering (Course for Competition)		
Fluid Mechanics and Hydropneumatics		
Course Project for Fluid Mechanics and Hydropneumatics		
Machine Vision Theory and Applications		
Motors and Electric Drives		
	Final Project	3
Chinese Language 2	Required for Chinese B.Sc. title	
General View of China 2		

NOTE: Tongji courses have typical size equivalent to approx 2-4 CFU. They are gathered in 4 cluster courses for 13 CFU each for credits recognition in PoliTO

Politong After Graduation

- Continue studies
 - Enter MSc Program in Italy, China, Europe, ...
 - Enter a First Level Specializing Master in Italy
- Enter the job market
 - Knowledge of Chinese culture, attractive to both
 - European Companies operating in China
 - Chinese Companies operating in Europe
 - Industries sponsor the campus for recruitment

Politong Double Degree

- Additional Semester at Tongji University
 - Mainly laboratories and research activity
 - Possible internship in a Chinese Company
 - Exam of Chinese language and culture
 - Graduation Thesis
- Get Chinese BSc degree from Tongji University
- The additional semester is organized entirely by Tongji University

Politong Selection process

- Student express interest
 - within January 11th 2024
- March 2024: selection of students
 - based on grades + interview
- April 2024: start of Chinese language course
- April/May: application to Tongji
- July/August 2024: confirmation of acceptance
 - pass Chinese language exam
 - pass at least 37 credits for ITE or 88 for MPE by July 2024

Politong How to apply

Within January 11th 2024 go to
your personal page on Portale della Didattica
then go to
«Segreteria online» section
then select
«apply for outgoing mobility programmes»
then select
«progetti speciali»
select
«Politong» and confirm

Politong Finance

- Tuition fee paid only at Politecnico di Torino
- Usual scholarships for the years in Italy
- Scholarship for the year in China (amount to be defined within March)

Politong Thresholds

- Admission to the program
 - Pass “Analisi matematica I” within winter exam session a.y. 2023/24 for ITE students and 46 CFU within December 2023 for MPE students
 - Pass 37 credits for ITE students and 88 credits for MPE students within July 2024
 - Pass Chinese language exam within July 2024
 - B2 certificate of English language
- To avoid returning the scholarship
 - Pass 40 credits in China
- Admission to third year for ITE students:
 - Less than 10 credits failed in China, otherwise
 - Transfer to a regular BSc program
 - No double degree

Politong Visa Procedure

- Apply to Chinese Consulate (e.g., in Milan) with
 - Admission notice from Tongji University
 - Application form from Tongji University
 - Required visa: Type X (xuexi)
 - Valid for one month
 - Resident permit application upon arrival
 - Valid for 1 year
- VISA application not before July 2024

Politong Reference People

- In Shanghai
 - Professors of active courses
 - Italian and Chinese Politong staff,
sinoitaliancampus@tongji.edu.cn
- In Turin
 - ITE – prof. Fabrizio Bonani, fabrizio.bonani@polito.it
 - MPE – prof. Stefano Pastorelli, stefano.pastorelli@polito.it
 - Ufficio Mobilità internazionale
Ticketing Service from Personal Page of Portale della Didattica



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