

**EXCHANGE PROGRAM 2021-22:
Course selection instructions**

The CentraleSupélec Engineering Curriculum spans over 3 years (6 semesters).

Each semester comprises 2 terms:

- an **“Engineering Challenge” Term** (in French *Séquence Thématique* or *ST*);
- an **Academic Term** (in French *Séquence Générale* or *SG*).

CentraleSupélec Engineering Curriculum in relation to the French/European system				Equivalent in the European higher education system		
Preparatory classes in France: "Prépa"	1st year	Semester 1	X	year 1	BSc	
		Semester 2				
	2nd year	Semester 3		year 2		
		Semester 4				
CentraleSupélec Engineering Curriculum	1st year	Semester 5 - S5	SG 1	year 3		MSc
			ST 2			
		Semester 6 - S6	SG 3			
			ST 4			
	2nd year	Semester 7 - S7 FALL	ST 5	year 4		
			SG 6			
		Semester 8 - S8 SPRING	ST 7			
			SG 8			
	3rd year	Semester 9 - S9	SD9	year 5		
			SM 10			
Semester 10 - S10		SM11				
		Internship				

The second year at CentraleSupélec is open to exchange students coming either for the Fall Semester “S7” (September to January) or the Spring Semester “S8” (February to June), or both.

Detailed course descriptions can be found in the catalogue 2020-2021.

To know the language of instruction for each course, please refer to the course list below.

Please note that changes can still occur before your arrival.

FALL SEMESTER "S7": ORGANIZATION & SELECTION OF COURSES

You are free to select any course from this program, taking into consideration several rules explained below. The full course load of the engineering program is usually 30 ECTS per semester. Depending on the requirements of your home institution, you may either take the full course load, additional courses, or choose a minimum of 24 ECTS. The school has 3 campuses: Saclay, Rennes and Metz. **Be sure to choose a full set of courses in one campus only.**

This document is for information purposes only. Course choices will be collected via an online survey (a link will be sent to nominated candidates).

"Engineering Challenge" Term, or Séquence Thématique: ST5

This term runs from September to mid-November, and comprises:

- A course series including:
 - An introductory module
 - A specific course
 - A Challenge Week, in French *Enseignement d'intégration*, scheduled at the end of the term (**choice of challenge week topic will be made upon arrival**)
- Common core courses: Automatic Control and System Modelling

Students are invited to choose 1 of the 14 "ST" topics, as well as a back-up in case their top choice cannot be accommodated.

The Automatic Control course is not mandatory, but it is a strong prerequisite for the ST: **you must attend it if you do not have the sufficient background in this field.**

Academic Term, or Séquence Générale: SG6

This term runs from late November to late January, and comprises:

- 3 elective courses

The courses are distributed in 3 series: 2.1, 2.2 and 2.3. All courses from a given series are scheduled in the same time slot. Therefore, it is not possible to attend more than 1 course per series.

Please select 1 "top" choice + 1 "back-up" per series.

The semester also includes:

- A 1-week seminar scheduled at the beginning of September: **Business Games**
 - An **intensive 1-week seminar** scheduled late November: if you are interested in this seminar, you may select:
 - One topic related to Humanities and Social Sciences (labelled **2IN2310, 2IN2320, 2IN2330, 2IN2340**). In this case, you will be requested to choose a specific module within the topic at a later stage
- OR**
- An additional elective course (related to: Physics, Management, Computer science, etc.). **Please note that, due to limited seats in these modules, your choice may not be accommodated.**

If you are interested in this seminar, you may select 1 "top" choice + 1 "back-up" choice.

- Semester-long courses: **Economics, Law, Sociology of Organizations, Climate Science** and a **team project**.
- **Workshops:** Engineering Skills Workshops ("API") and Professional Practice Skills Workshops ("APP").
- **Language courses:** Students choose at least 1, and up to 2 foreign language(s) from the list. **Priority is given to French and English.** If you are already fluent in the latter, you may skip the language courses, or choose another language (in gray). **This option is available only if you have already had at least two semesters of study of the chosen language just prior to your arrival at CentraleSupélec. You cannot select a language in which you are a native speaker.**
- **Sports:** CentraleSupélec offers a range of sports courses which international students are encouraged to join, but for which they do not receive ECTS. If you are interested, please visit the Sports Office when you arrive on campus.

SEQUENCE THEMATIQUE "ST5" / ENGINEERING CHALLENGE TERM

Choice 1	Choice 2	FR Course title	Eng Course title	Course code	ECTS	Campus	Language of Instruction
<input type="checkbox"/>	<input type="checkbox"/>	Pilotage et contrôle de vol dans le transport aéronautique et spatial : Intro: module contexte et enjeu Performances et trajectoires de vol Stratégie de contrôle d'un nanosatellite OU Définition et conception de la mission d'un lanceur OU Conception d'un avion	Flight Control in Aeronautical and Space Transport: Introductory module Performance and flight paths Control Strategy of a Nanosatellite OR Definition and Design of a Launcher Mission OR Aircraft Design	ST 51 2SC5100 2SC5110 2SC5191 2SC5192 2SC5193	5 0,5 2,5 2 2 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Commande de bioprocédés pour une production durable : Intro: module contexte et enjeu Ingénierie des procédés: application à l'environnement et aux productions durables Traitement biologique optimisé des eaux résiduaires urbaines OU Procédé innovant de fermentation continue de levain OU Supervision avancée de la production de biogaz à partir de déchets	Bioprocess Control for Sustainable Production: Introductory module Chemical Engineering: application to environment and sustainable production Optimized biological treatment of urban wastewater OR Innovative Process of Continuous Sourdough Fermentation OR Advanced Supervision of Biogas Production from Waste	ST 52 2SC5200 2SC5210 2SC5291 2SC5292 2SC5293	5 0,5 2,5 2 2 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Véhicule intelligent et communicant : Intro: module contexte et enjeu Architecture et technologies pour le véhicule intelligent et communicant Livraison urbaine par véhicules autonomes et connectés	Smart and Communicating Vehicle: Introductory module Architecture and technologies of smart and communicating vehicles Urban Delivery by autonomous and connected vehicles	ST 53 2SC5300 2SC5310 2SC5390	5 0,5 2,5 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	L'éco-quartier, un système complexe. Aménagement durable & management de projet complexe : Intro: module contexte et enjeu Aménagement et urbanisme durables Projet de conception d'un éco-quartier	Ecological District, a Complex System. Sustainable Management and Complex Project Management: Introductory module Sustainable Urban Planning Eco-district Design Project	ST 54 2SC5400 2SC5410 2SC5490	5 0,5 2,5 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Lumière et matière: développement d'instruments de haute technologie: Intro: module contexte et enjeu Physique de la matière Conception d'un faisceau de rayons X Synchrotron OU Lasers à cascade quantique	Light and Matter: Development of High Technology Instruments: Introductory module Physics of Matter Synchrotron X-ray Beamline Design OR Quantum Cascade Lasers	ST 55 2SC5500 2SC5510 2SC5591 2SC5592	5 0,5 2,5 2 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Systèmes multi-énergies: Intro: module contexte et enjeu Introduction à la production d'énergie Régulation et commande de systèmes de production et de conversion d'énergie OU Groupe motopropulseur hybride OU Propulsion aéronautique hybride	Multi-Energy Systems: Introductory module Introduction to Energy Production Regulation and Control of Energy Production and Conversion Systems OR Hybrid Power Train OR Hybrid Aeronautical Propulsion	ST 56 2SC5600 2SC5610 2SC5691 2SC5692 2SC5693	5 0,5 2,5 2 2 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Contrôle de la pollution acoustique et électromagnétique: Intro: module contexte et enjeu Théorie et algorithmique pour le contrôle des ondes Contrôle de la pollution acoustique extérieure OU Contrôle de la pollution acoustique intérieure OU Contrôle de la pollution électromagnétique	Control of Acoustic and Electromagnetic Pollution: Introductory module Theory and Algorithms for wave control Control of External Acoustic Pollution OR Indoor Noise Pollution Control OR Control of Electromagnetic Pollution	ST 57 2SC5700 2SC5710 2SC5791 2SC5792 2SC5793	5 0,5 2,5 2 2 2	Paris Saclay	F

<input type="checkbox"/>	<input type="checkbox"/>	Systèmes complexes industriels et critiques à logiciels prépondérants: Intro: module contexte et enjeu Conception et vérification de systèmes critiques Conception d'un système de signalisation sûre pour le ferroviaire OU Système intelligent pour le contrôle automatisé du trafic aérien OU Systèmes de production pour "usines intelligentes"	Industrial Complex and Critical Systems with Prepondering Softwares: Introductory module Design and verification of critical systems Design of a Safe Signalling System for the Railway OR Intelligent System for Automated Control of Air Traffic OR Production Systems for "smart factories"	ST 58 2SC5800 2SC5810 2SC5891 2SC5893 2SC5894	5 0,5 2,5 2 2 2	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Assistance et autonomie de la personne: Intro: module contexte et enjeu Commande d'une chaîne de motorisation Fauteuil roulant motorisé pour personne handicapée	Assistance and Autonomy of the Person: Introductory module Control of a motorization chain Motorized Wheelchair for Disabled Person	ST 59 SC5900 2SC5910 2SC5990	5 0,5 2,5 2	Metz	F
<input type="checkbox"/>	<input type="checkbox"/>	Navigation semi-autonome de drones: Intro: module contexte et enjeu Robotique autonome Navigation semi-autonome de drones en environnement intérieur	Semi-Autonomous UAV Navigation: Introductory module Autonomous Robotics Semi-autonomous UAV indoor navigation	ST 60 2SC6000 2SC6010 2SC6090	5 0,5 2,5 2	Metz	E
<input type="checkbox"/>	<input type="checkbox"/>	Systèmes photoniques intelligents de commande et de mesure: Intro: module contexte et enjeu Photonique pour le contrôle des systèmes physiques Télédétection laser (LIDAR)	Intelligent Control and Measurement Photonic Systems: Introductory module Photonics for the control of physical systems Laser Remote Sensing (LIDAR)	ST61 2SC6100 2SC6110 2SC6190	5 0,5 2,5 2	Metz	E
<input type="checkbox"/>	<input type="checkbox"/>	Intelligence énergétique et smart building : Intro: module contexte et enjeu Communications à haute performance énergétique OU Modélisation Systèmes Pilotage hiérarchisé du confort thermique	Energy Intelligence and Smart Building: Introductory module High energy performance communications OR System Modelling Hierarchical control of thermal comfort	ST62 2SC6200 2SC6210 or 2SC6290	5 0,5 2,5 2	Rennes	E
<input type="checkbox"/>	<input type="checkbox"/>	Systèmes intelligents et embarqués pour la santé : Intro: module contexte et enjeu Communications à haute performance énergétique OU Modélisation Systèmes Système intelligent pour la régulation personnalisée de glycémie	Intelligent and Embedded Healthcare Systems: Introductory module High energy performance communications OR System Modelling Smart System for personalized blood glucose control	ST63 2SC6300 2SC6210 or 2SC6390	5 0,5 2,5 2	Rennes	F
<input type="checkbox"/>	<input type="checkbox"/>	Modélisation et conception d'un système de supervision de capteurs : Intro: module contexte et enjeu Modèles de données et schémas de conception Développement d'un système de supervision de capteurs	Modeling and Design of a Sensor Supervision System: Introductory module Data Models and design schemes Development of a sensor monitoring system	ST64 2SC6400 2SC6410 2SC6490	5 0,5 2,5 2	Rennes	F

COURS DE TRONC COMMON / COMMON CORE COURSES

Choices		FR Course title	Eng Course title	Course code	ECTS	Campus	Language of Instruction
<input type="checkbox"/> E	<input type="checkbox"/> F	Automatique	Automatic Control	2CC1000	2,5	all	E or F in P-Saclay and Rennes, F in Metz
<input type="checkbox"/> E	<input type="checkbox"/> F	Modélisation Systèmes	Systems Modelling	2CC2000	0	all	E or F in P-Saclay, F in Rennes and Metz

SEQUENCE GENERALE "SG6" / ACADEMIC TERM

ELECTIVE SERIES 2.1

Choice 1	Choice 2	FR Course title	Eng Course title	Course Code	ECTS	Campus	Language of Instruction
<input type="checkbox"/>	<input type="checkbox"/>	Systèmes Dynamiques en Neurosciences	Dynamical systems in neurosciences	2EL1110	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Conversion d'énergie	Energy conversion	2EL1320	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Mécanique des Fluides	Fluid Mechanics	2EL1420	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Distribution et opérateurs	Distribution et opérateurs	2EL1720	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Mécanique avancée pour le génie civil: "Construire sur Mars"	Advanced Mechanics for Civil engineering: "Building on Mars"	2EL1840	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Compréhension, optimisation et simulation des procédés biotechnologiques	Understanding, optimisation and simulation of biotechnological processes	2EL2010	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Economie de l'innovation et de la croissance	Economics of growth and innovation	2EL2170	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Capteurs intégrés MEMS	MEMS Integrated Sensors	2EL2530	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Réseaux de communication mobiles et services	Mobile communication networks and services	2EL2620	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Conception de systèmes électroniques complexes: du composant au système hétérogène	Design of Complex Electronic Systems: form Component to Heterogenous System	2EL5090	2,5	Metz	F
<input type="checkbox"/>	<input type="checkbox"/>	Traitement de l'image	Digital Image Processing	2EL5070	2,5	Metz	F
<input type="checkbox"/>	<input type="checkbox"/>	La lumière pour comprendre la matière	Using Light to understand Matter	2EL5110	2,5	Metz	E
<input type="checkbox"/>	<input type="checkbox"/>	Architecture des ordinateurs	Computer architecture	2EL6020	2,5	Rennes	F
<input type="checkbox"/>	<input type="checkbox"/>	Modélica et bond graph: modélisation multi-domaine, analyse et simulation	Modelica and bond graph: multidomain modellisation, analysis and simulation	2EL6050	2,5	Rennes	E
<input type="checkbox"/>	<input type="checkbox"/>	Economie de l'innovation	Economy of Innovation	2EL6160	2,5	Rennes	F
ELECTIVE SERIES 2.2							
Choice 1	Choice 2	FR Course title	Eng Course title	Course Code	ECTS	Campus	Language of Instruction
<input type="checkbox"/>	<input type="checkbox"/>	Transferts thermiques	Heat transfer	2EL1410	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Génie logiciel orienté objet	Object oriented programming	2EL1520	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Modèles et systèmes pour la gestion de données massives	Big Data management	2EL1560	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Machine learning	Machine Learning	2EL1730	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Vibration structurelle et acoustique	Structural vibration and acoustics	2EL1810	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Physique quantique et statistique (part II)	Quantum and Statistical Physics part II	2EL1920	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Theorie des Organisations et des marchés	Organisational and market theories	2EL2220	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Finance et droit de l'entreprise	Corporate finance and Law	2EL2150	2,5	Paris Saclay	E + 1 lecture in F
<input type="checkbox"/>	<input type="checkbox"/>	Analyse et traitement de l'image	Analysis and audio file formatting	2EL5060	2,5	Metz	E
<input type="checkbox"/>	<input type="checkbox"/>	Modélisation pour l'ingénierie des systèmes	Modeling for Systems Engineering	2EL5140	2,5	Metz	F
<input type="checkbox"/>	<input type="checkbox"/>	Transitions et symbiose socio-économique	Transitions and socio-economic symbiosis	2EL5150	2,5	Metz	?
<input type="checkbox"/>	<input type="checkbox"/>	Conception de systèmes embarqués critiques de contrôle commande	Model based Design of Embedded Control Systems	2EL6010	2,5	Rennes	E
<input type="checkbox"/>	<input type="checkbox"/>	Méthodes numériques	Numerical Methods	2EL6080	2,5	Rennes	F
<input type="checkbox"/>	<input type="checkbox"/>	Nouveaux paradigmes réseau	New Network Paradigms	2EL6110	2,5	Rennes	F

<input type="checkbox"/>	<input type="checkbox"/>	Bayesian methods for machine learning	Méthodes bayésiennes pour l'apprentissage automatique	2EL6190	2,5	Rennes	F
ELECTIVE SERIES 2.3							
Choice 1	Choice 2	FR Course title	Eng Course title	Course Code	ECTS	Campus	Language of Instruction
<input type="checkbox"/>	<input type="checkbox"/>	Milieux réactifs	Reactive Media	2EL1440	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Calcul haute performance	High Performance Computing	2EL1550	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Probabilités avancées	High level Probabilities	2EL1710	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Comportement non-linéaire des matériaux	Non-linear behaviour of materials	2EL1830	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Génomique et biologie synthétique en biotechnologie sanitaire et industrielle	Genomics and synthetic biology in health and industrial biotechnology	2EL2030	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Science de la conception	Design Science	2EL2120	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Stratégie, Marketing et Organisation	Marketing Strategy and Organisation	2EL2140	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Compression et débruitage des signaux	Signal compression and denoising	2EL2410	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Architecture et conception des systèmes numériques	Architecture and design of digital systems	2EL2510	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Théorie des communications	Theory of communications	2EL2610	2,5	Paris Saclay	E
<input type="checkbox"/>	<input type="checkbox"/>	Introduction à l'ingénierie des applications mobiles	Introduction to engineering of Mobile App	2EL5010	2,5	Metz	F
<input type="checkbox"/>	<input type="checkbox"/>	Méthodes d'estimations et introduction à la théorie moderne du codage	Estimation methods and introduction to modern theory of coding	2EL5050	2,5	Metz	F
<input type="checkbox"/>	<input type="checkbox"/>	Intelligence artificielle et deep learning	Artificial Intelligence and Deep Learning	2EL6090	2,5	Rennes	E
<input type="checkbox"/>	<input type="checkbox"/>	Communication Systems Engineering	Communication Systems Engineering	2EL6100	2,5	Rennes	E
<input type="checkbox"/>	<input type="checkbox"/>	Marketing Digital	Digital Marketing	2EL6180	2,5	Rennes	F

ENSEIGNEMENTS HORS SEQUENCE / SEMESTER-LONG COURSES							
Multiple choices possible		FR Course title	Eng Course title	Course code	ECTS	Campus	Language of Instruction
<input type="checkbox"/> E	<input type="checkbox"/> F	Economie	Economics	2SL1000	2	all	E or F in P-Saclay, F in Metz and Rennes
<input type="checkbox"/> E	<input type="checkbox"/> F	Science du Climat et enjeux du changement climatique	Climate science and climate change issues	2SL1100	0	all	E or F
	<input type="checkbox"/>	Droit	Law	2SL2000	1	all	F in Metz, E in Paris-Saclay and Rennes
	<input type="checkbox"/>	Sociologie des Organisations	Sociology of Organizations	2SL4000	1	all	F
	<input type="checkbox"/>	Ateliers Pratiques Ingénieur - API	Engineering Skills Workshops	2SL5000	1	all	F
	<input type="checkbox"/>	Ateliers Pratique Professionnelle - APP	Professional Practice Workshops	2SL7000	0,5	all	F
	<input type="checkbox"/>	Sport	Sports	2SL9000	0	all	N/A
	<input type="checkbox"/>	Projet S7	S7 Project	2SL8000	4,5	all	F/E depending on topic or group

INTENSIVE SEMINAR COURSES							
Choice	FR Course title	Eng Course title	Course code	ECTS	Campus	Language of Instruction	
<input type="checkbox"/>	Jeux d' Entreprise	Business Games	2IN4000	2,5	all	F	
Choice 1	Choice 2	FR Course title	Eng Course title	Course code	ECTS	Campus	Language of Instruction
<input type="checkbox"/>	<input type="checkbox"/>	Cours de type Sciences Humaines et Sociales (SHS) dans l'un de ces 4 domaines: Individus, Travail, Organisations; Enjeux de société; Science, Technologie, Société* ou Innovation, Arts et Créativité*	Humanities and Social Sciences (SHS) course, in one of the following domains: Individual, Work and Organisation; Perspective on key social issues; Science, Technology, Society* or Innovation, Arts and Creativity*	2IN2310, 2IN2320, 2IN2330, 2IN2340	1,5	Paris Saclay, Rennes	F or E depending on course
<input type="checkbox"/>	<input type="checkbox"/>	Design your way	Design your way	2EL2710	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Comprendre la blockchain	Understanding Blockchain	2IN1510	2,5	Paris Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Intelligence artificielle et santé mondiale	Artificial intelligence and global health	2IN1580	2,5	all	E
<input type="checkbox"/>	<input type="checkbox"/>	Communiquer sur des projets de recherche durable	Communicating sustainable research projects	2IN2100	2,5	Paris-Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Bridge Building Challenge	Bridge Building Challenge	2IN5010	2,5	Paris-Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Innovation des semi-conducteurs	Semiconductor innovation	2IN5020	2,5	Paris-Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Travail expérimental de physique	Experimental physics work	2IN5030	2,5	Paris-Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Enseignement expérimental en transmission d'information	Experimental work about information transmission	2IN5040	2,5	Paris-Saclay	F
<input type="checkbox"/>	<input type="checkbox"/>	Marketing	Marketing an its tools: towards responsible marketing?	2IN5106	2,5	Metz	F

LANGUAGE COURSES						
Choices (max. 2)	FR Course title	Eng Course title	Course code	ECTS	Campus	Language of Instruction
<input type="checkbox"/>	Anglais	English	2LC0100	1,5	all	N.A
<input type="checkbox"/>	Français Langue Etrangère - FLE	French as a foreign language	2LC0200	1,5	all	N.A
<input type="checkbox"/>	Allemand	German	2LC0300	1,5	all	N.A
<input type="checkbox"/>	Espagnol	Spanish	2LC0400	1,5	all	N.A
<input type="checkbox"/>	Italien	Italian	2LC0500	1,5	all	N.A
<input type="checkbox"/>	Portugais	Portuguese	2LC0600	1,5	Paris-Saclay	N.A
<input type="checkbox"/>	Chinois	Chinese	2LC7000	1,5	all	N.A
<input type="checkbox"/>	Japonais	Japanese	2LC0800	1,5	all	N.A
<input type="checkbox"/>	Russe	Russian	2LC0900	1,5	P-Saclay and Metz	N.A
<input type="checkbox"/>	Arabe	Arabic	2LC1000	1,5	P-Saclay and Rennes	N.A
<input type="checkbox"/>	Hébreu	Hebrew	2LC1200	1,5	P-Saclay	N.A