

## French language and culture From July 2<sup>nd</sup> to July 20<sup>th</sup>, 2018

### Overview

Designed for students willing to improve their level of French during the summer, those programs are creative, innovative and rewarding. They focus on original thematic always including cultural and linguistic aspects. Led by top and specialized teachers, they are the key to success whether you wish to communicate better in French, succeed in your future studies in France or enhance your professional career.

### **Courses structure**

- Contents of the course based on the Common European Framework of Reference for Languages: Learning, Teaching, Assessment (CEFR).
- Classes are focused on developing the four language skills (speaking, listening, reading and writing) as well as sociocultural knowledge.

Classes are divided in different groups to suit every level.

The group levels are based on the CEFR scale:

- A1 (Beginner level),
- A2/B1 (intermediate level),
- B1/B2 (upper intermediate levels).

### Practical information

- **Start date** : July 2<sup>nd</sup>, 2018 – **End date** : July 20<sup>th</sup>, 2018
- **Duration** : 72 hours (3 weeks)
- **Total ECTS** : 6
- **Venue** : EPITA (Le Kremlin-Bicêtre – Paris)
- **Application deadline** : May 15<sup>th</sup>, 2018

*It is highly recommended to arrive in Paris on Sunday (July 1<sup>st</sup>)*

**Contact** : fle@epita.fr



## French language and culture

### Courses

Group 1	Beginner A1
<b>Objectives</b>	Prepare students to be able to communicate in French given a simple daily situation.
<b>Pre-requisite</b>	None
<b>Hours</b>	72 hours
<b>ECTS credits</b>	6
<b>Description</b>	<ul style="list-style-type: none"> <li>• To learn how to pronounce in French</li> <li>• To acquire knowledge about French culture and Paris</li> <li>• To understand sentences and frequently used expressions related to areas of most immediate relevance (e.g. very basic personal and family information, shopping, local geography, employment).</li> <li>• To communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar and routine matters (e.g. to do shopping ask for a price, size..., order in a restaurant, buy a ticket at the movie or museum, ask for directions, take public transportation, etc.).</li> <li>• To describe in simple terms aspects of student's [academic] background, immediate environment and matters in areas of immediate need.</li> </ul>



Group 2	Elementary A2
<b>Objectives</b>	Prepare students to integrate in their daily life or at school and to manage in most situations that come up when travelling in France and in any Francophone country.
<b>Pre-requisite</b>	A1 in French
<b>Hours</b>	72 hours
<b>ECTS credits</b>	6
<b>Description</b>	<ul style="list-style-type: none"> <li>• To be able to understand isolated phrases and common expressions that relate to areas of high personal relevance (like personal or family information, shopping, immediate environment, work, school).</li> <li>• To be able to communicate during easy or habitual tasks requiring a basic and direct information exchange on familiar subjects in work, school, leisure activities, etc. Using simple words, can describe his or her surroundings and communicate immediate needs.</li> <li>• To acquire knowledge about French culture and Paris.</li> </ul>



## French language and culture

<b>Group 3</b>	<b>French for studies B1-B2</b>
<b>Objectives</b>	Prepare students for advanced studies in a French graduate school or university.
<b>Pre-requisite</b>	B1 in French
<b>Hours</b>	72 hours
<b>ECTS credits</b>	6
<b>Description</b>	<ul style="list-style-type: none"> <li>• To be able to understand the main ideas of concrete or abstract topics in a complex text, including a technical article in the student's area of expertise.</li> <li>• To make an oral presentation.</li> <li>• To be able to speak in a clear, detailed way on a number of subjects; express an opinion on current affairs, giving the advantages and disadvantages of the various options.</li> <li>• To summarize a document.</li> <li>• To develop a good command of the vocabulary in the student's area of studies.</li> <li>• To acquire knowledge about French culture and Paris.</li> </ul>

### Program Fee

- Application Fee : 60 €
  - Fees : **2300 €** including
    - tuition and documentation,
    - 72 hours of French language courses,
    - accommodation & lunches on week days,
    - public transport pass.
    - organization of several events (welcome diner, certificate ceremony),
    - weekly cultural visits/activities (Versailles Castle, Louvre Museum, visits of Parisian districts, etc.),
    - WIFI access,
    - program certificate.
- Optional: airport transfer



Participants who wish to cancel must do so in writing by email. Their tuition fees will partially be refunded as follows:

- Cancellation after May 15<sup>th</sup>, 2018 : 50% refund
- Cancellation after June 2<sup>nd</sup>, 2018 : no refund possible

Early Bird (registration before April 15<sup>th</sup>, 2018) and partner university students can receive a discount off the program price.

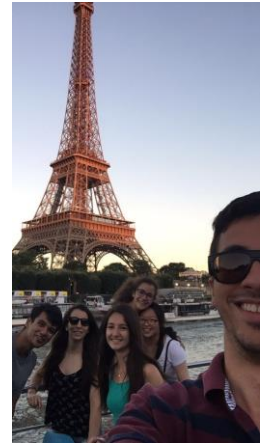
## French language and culture

### Contact - How to apply

For any question you can contact us at [fle@epita.fr](mailto:fle@epita.fr)

More information about admissions (requirements, process...)  
are available on our website:

<http://www.epita.fr/international/admission-requirements.aspx>



## Mobility & Virtual Reality

From July 2<sup>nd</sup> to July 20<sup>th</sup>, 2018

### Overview

New user interfaces are key in the application world. Students will learn basics of mobile development (iOS, Android) and create virtual reality apps with Unity and Google cardboard.

### **Courses structure**

- iOS Introduction in Swift (2 ECTS)
- Android Initiation course (2 ECTS)
- Virtual Reality workshop (2 ECTS)

### **Keywords**

- iOS, Apple, swift, storyboard, beginner
- Android, Java, Kotlin, xml, object oriented programming
- Unity 3D, C#, scripting



### Practical information

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- **Language** : English
- **Venue** : EPITA (Le Kremlin-Bicêtre – Paris)
- **Application deadline** : May 15<sup>th</sup>, 2018

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## Mobility & Virtual Reality

### Courses

#### **Course 1 : iOS Introduction in Swift**

**Objective :** Learn how to make your first application on iOS using swift

**Hours :** 24h - ECTS (credits) : 2

**Description :**

This is a practical course to learn how to make a simple app from scratch. We'll use storyboarding to create a responsive UI, create method to handle inputs from the user and we'll see how to make web request to process an external data feed.

#### **Course 2 : Android Initiation course**

**Objective :** Learn the basics of Android development for mobile devices

**Hours :** 24h - ECTS (credits) : 2

**Description :**

This is a practical course to learn the basics of Android mobile development. From how to create a User Interface that fits on different devices to the code behind this UI.

#### **Course 3 : Virtual Reality Workshop**

**Objective :** Discover Virtual Reality by making a VR app with Unity 3D

**Hours :** 24h - ECTS (credits) : 2

**Description :**

In this workshop, we will learn the various basic concepts used in Unity 3D software. We will then merge 3D objects, scripts, and the laws of physics to create our first Virtual Reality app runnable in an Android phone inside a Samsung Gear headset or a Google Cardboard.

### **Remarks**

- iOS : the school will provide the required Mac environment.
- Android : Students must bring a laptop (Windows 7+ or OSX) with at least 10 Gb free hard drive space
- VR : the school provides the required environment.



As specified above, bringing a laptop running Windows 7 (or later) or Mac OSX is mandatory.

Having a mobile device (iPhone or Android) is optional since we'll be testing in simulators. An Android phone can be a plus though, as it can be used both for Android lessons and VR workshops (if compatible).

## Mobility & Virtual Reality

### Prerequisites & level

Applicants must have intermediate programming skills and completed at least two years of higher education in IT or computer science.

Applicants must understand Object Oriented Programming, usual design patterns, messaging and events between objects.

Applicants must be used to traditional IDE software.



### Program Fee

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    - accommodation & lunches on week days,
    - survival French classes,
    - public transport pass.
    - organization of several events (welcome, certificate ceremony),
    - weekly cultural visits / activities (Versailles Castle, Louvre, Cité des sciences...),
    - computer accounts at the school (WIFI access),
    - program certificate.
- Optional: airport transfer

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## Mobility & Virtual Reality

### English requirements

IELTS 5,5 - TOEFL IBT 65 - CECRL B2 - TOEIC 600.

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# Neural Networks & Deep Learning Seminar

From July 2<sup>nd</sup> to July 20<sup>th</sup>, 2018

### Overview

Neural networks are an exciting branch of artificial intelligence. They cover a large part of current industrial innovation that provides more efficient algorithms to deal with problems in computer vision, speech recognition, language processing. Students will learn basics of neural networks and how to create a computer vision system (optical Character recognition OCR or Face recognition)

### **Courses structure**

- Python for scientists (1.5 ECTS)
- Image processing (1 ECTS)
- Neural network & Deep learning (2 ECTS)
- French Language & Culture (1.5 ECTS)

### **Keywords**

- Deep learning, Image processing, Python



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## Neural Networks & Deep Learning

### Courses

#### **Course 1 : Python for scientists**

**Objective:** Being at easy with most common Python libraries for science

**Hours:** 18h - ECTS (credits) : 1,5

**Description :**

- Python language
- Numpy & Pandas libraries for data manipulation
- Plotting with Python

#### **Course 2 : Image processing**

**Objective:** Extract information from an image

**Hours:** 12h - ECTS (credits) : 1

**Description :**

- What is an image
- Image transformations
- Applications
- Project

#### **Course 3 : Virtual Reality Workshop**

**Objective:** Get basics on neural networks

**Hours:** 24h - ECTS (credits) : 2

**Description :**

- Theory
- Python + Keras to run neural networks on GPU
- Applications to image processing
- Project

#### **Course 4 : Initiation to French language**

**Objective:** Prepare students to able to communicate in French given a simple daily situation

**Hours:** 18h - ECTS (credits) : 1,5

**Description :**

- To learn French pronunciation, to count, to introduce oneself
- To get around the city : read a map, take public transportation...
- To do shopping (ask for a price, etc.), to buy food, to order in a restaurant...



### **Remarks**

- Bringing a laptop is not mandatory



## Neural Networks & Deep Learning

### Prerequisites & level

Applicants must have intermediate programming skills and completed at least two years of higher education in IT, computer science or mathematics.



### Program Fee

- Application Fee : 60 €
  - Fees : **2300 €** including
    - tuition and documentation,
    - accommodation, & lunches on week days,
    - survival French classes,
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# Neural Networks & Deep Learning

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# INNOVATIVE SUMMER PROGRAMS IN PARIS

**JULY 2<sup>ND</sup> – JULY 20<sup>TH</sup>, 2018**

## **FRENCH LANGUAGE & CULTURE**

(3 WEEKS / 6 ECTS)

Discover the French language and experience the cultural diversity of Paris.

## **MOBILITY & VIRTUAL REALITY**

(3 WEEKS / 6 ECTS)

IN ENGLISH

Fundamentals of mobile development (iOS, Android) and creation of virtual reality apps.

## **NEURAL NETWORKS & DEEP LEARNING**

(3 WEEKS / 6 ECTS)

IN ENGLISH

Broad introduction to applications of neural networks & recognition techniques.

**STUDY IN A TOP DIGITAL ENGINEERING SCHOOL  
INTERACT WITH OTHER SUMMER SCHOOL  
STUDENTS AND MAKE INTERNATIONAL FRIENDS**

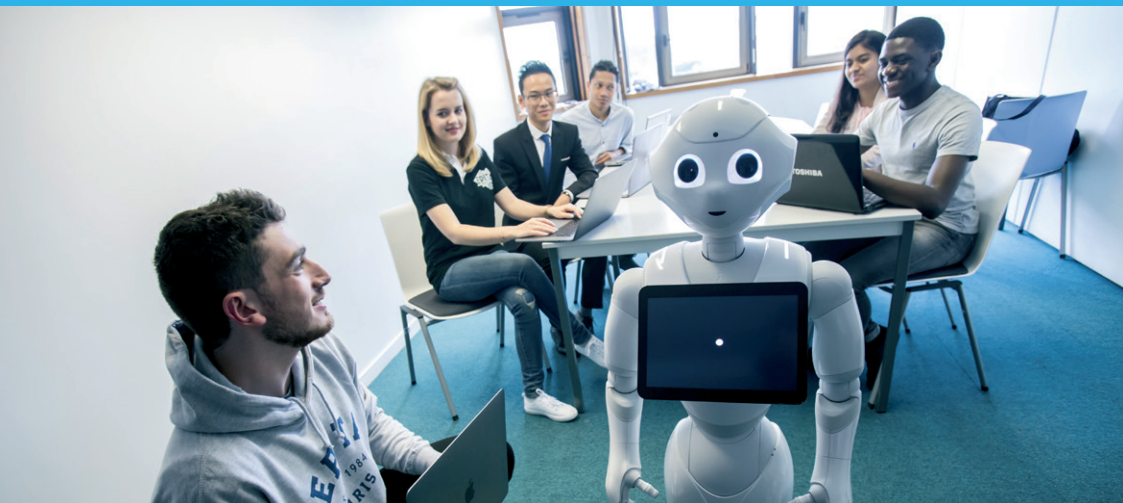


Students will receive a certificate granting them the equivalent of 6 ECTS



# EPITA

## INTERNATIONAL SHORT PROGRAMS IN PARIS



### More info on:

[summer-schools.fr](http://summer-schools.fr) or [epita.fr/international](http://epita.fr/international)

- Price: €2300 (including: tuition, accommodation, cultural activities, etc.).
- Application fee: 60 €
- A special discount for students from partner universities

Don't hesitate to contact us for a customized program: [summer@epita.fr](mailto:summer@epita.fr)

