

LYCÉE  
BLAISE PASCAL  
SCIENCES ET TECHNOLOGIES



**BTS CPI**

**Work-study  
program**

Industrial product  
design

*Creativity*

*Innovation*

*Communication*

*Teamwork*



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## Objective

The «BTS CPI» is a level 5 ISCED diploma, validating the training of generalist advanced technicians with a focus on mechanics.

## Student recruitment

Students mainly come from technology studies, but also from general studies. Other students on this BTS may also hold a vocational degree with a focus on mechanics. The «BTS CPI» is obtained after two years of study focusing on the design of mechanisms and the industrialisation of products.



## Organisation of studies

Students preparing for the «BTS CPI» complete a six- to ten-week industrial internship at the end of the first year of training. The aim of this internship is to make students aware of the realities of the working world and to put into practice the knowledge and skills they have already acquired, while taking into account a number of different aspects: autonomy, communication and human relationships, etc.

### **An industrial project in the second year**

Based on a set of specifications, 2nd year students prepare a personal design and industrialisation project. This work must be carried out in close collaboration with the company.

### ***Two educational projects***

A **prototyping** project that will integrate rapid prototyping into the design process.

A **collaborative product optimisation project** to learn how design and production specialists can work together effectively.





# The timetable

## General education

French	3H
English	2H
Mathematics	2.5H
Physics and Chemistry	2H

## Vocational education

Behaviour of technical systems	20H
Mechanical engineering	
Product industrialisation	
Co-teaching Mathematics / vocational training	
Co-teaching English / vocational training	1.5H
Personalised support	

*For apprentices, we provide 4 hours of additional teaching*



# The examination

## Compulsory tests

	How ?	Coef.
1. French	Written	3
2. English	CCF*	2
3.1 Mathematics	CCF	2
3.2 Physics and Chemistry	CCF	2
4.1 Expression of requirements and functional specifications	Oral	2
4.2 Preliminary design	Written	6
5.1 Detailed design	Oral	5
5.2 Internship report presentation	Oral	1
6.1 Prototyping project	CCF	2
6.2 Collaborative optimisation project	CCF	3



## Optional tests






Optional foreign language test	Oral
Product design culture	CCF

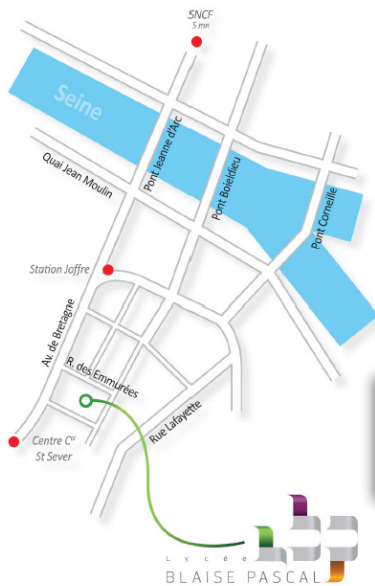
*\*CCF : In-course assessment*



## Further studies

There are many possible solutions:

-  Acquire a specialisation in certain technical high schools in one year after the «BTS». The Lycée Blaise Pascal offers this possibility in the **TSS Productique (Technicien Supérieur Spécialisé)** class.
-  Professional degrees
-  Access to engineer level by integrating :
  - A post-BTS technological preparatory class (ATS) at the Lycée Blaise Pascal in Rouen, to access to certain engineering schools on the basis of applications (INSA, Arts et Métiers, etc.) or a competitive entrance examination.
  - National engineering schools (ENI), Compiègne University of Technology (UTC)
  - Work-linked engineering training (CESI)
-  Undertake further training in the commercial field
-  Direct job search  
In industrial companies or in the electrical, medical, new energy and many other sectors linked to the automotive, rail and space industries, etc.



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