

Bachelor's Degree

COMPUTER SCIENCE

ENGLISH-TAUGHT
SEMESTER



INFO

The Software Applications Development Semester is designed for both French and international students who have completed two years of higher education in computer science and wish to specialise as software applications developers.

During the Autumn semester of the 3rd and final year of the Bachelor's Degree (Semester 5), students will study at IUT Annecy, gaining in-depth knowledge and hands-on experience. All courses are taught entirely in English, and classes bring together both French and international students, fostering a rich intercultural experience and a global perspective on the industry.

In the Spring semester (Semester 6), exchange students who wish to continue and be graduated at IUT Annecy (double diploma) will attend 1.5 months of courses in French and complete a 12-16-week internship within a company, applying their skills in a real-world professional environment.

SOFTWARE APPLICATIONS DEVELOPMENT

AUTUMN SEMESTER
30 ECTS

CURRICULUM 2026-2027



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MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE

Liberté
Égalité
Fraternité



UNIVERSITÉ
SAVOIE
MONT BLANC

Membre
de l'alliance
européenne



IUT Annecy - USMB

With 2,800 students, 24 Bachelor's Degrees, and 9 departments, IUT Annecy stands out as a dynamic and innovative institution. As one of the 7 schools of Université Savoie Mont Blanc (USMB), it offers a high-quality education that combines academic excellence with strong industry connections.

As a key player in higher education in Haute-Savoie region, IUT Annecy thrives in a dynamic ecosystem, collaborating closely with leading companies of the French Alps. Thanks to its solid industry network and specialised programmes, it has naturally established itself as the ideal partner for training experts and specialists in the IT industry.

14,500
students

1,400
staff members

240
PhD students



Membre
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européenne



18
research labs

1
enterprise club

1
foundation

1
universitas
montium



Programme Overview

The Software Application Development Bachelor's Degree focuses on the software life cycle: from the expression of the client's needs, to the design, programming, validation, and maintenance of the application.

It qualifies students to work as application designers and developers (mobile, web, Internet of things, video games, etc).

English-taught Semester (Semester 5 | Year 3 - Fall semester)

This full-time exchange semester offers a strong combination of theory and practice. Students work in teams to design, develop and deliver complete business-oriented software solutions. The curriculum emphasises professional project methodology, software quality standards, and advanced technologies.

Competence-based learning: the 3-year Bachelor's Degree aims to develop six core IT graduate skills called UEs (*unités d'enseignement* / learning units):

- UE1: Carrying out an application development
- UE2: Optimising computer applications
- UE3: Running complex communication computer systems
- UE4: Managing information data
- UE5: Conducting a project
- UE6: Working as part of an IT team

The 3rd-year English-taught fall semester curriculum **focuses on units 1, 2 and 6**. Each learning unit accounts for 10 ECTS ; validating all the semester units is required to validate a full semester.

Semester Organisation

- Period: Early September - End of January
- Total: 30 ECTS credits
- Format: Full-time, on-site
- Mandatory attendance: Students must attend all courses & project sessions

Admission Requirements

To join this semester as an exchange student, candidates must have:

- Completed at least **120 ECTS credits** in a relevant Computer Science or IT programme
- Solid knowledge of programming, especially object-oriented programming
- Experience with databases, web technologies, and basic software engineering practices
- English proficiency (minimum B2 level recommended)

Learning Outcomes

By the end of the semester, students will be able to:

- Adapt applications across platforms
- Analyse and optimise existing applications
- Work efficiently in a team-based development process
- Apply modern development paradigms and automation tools
- Communicate technical content
- Manage a software development project from planning to delivery

Semester 5 - Courses, Skills (UE) & ECTS.

Course List	UE1	UE2	UE6	Weight
IT Team Project Management			•	0.9
Company Conferences			•	1.3
Guidance				0.6
Algorithmic Quality	•	•		0.8
Advanced Programming	•	•		1.6
Multimedia Programming	•	•	•	0.6
Automation	•		•	0.8
Development Quality	•	•		1.2
Advanced Virtualisation	•	•		0.9
New Databases	•	•		1.6
Decision-making Support		•		0.7
Mathematical Modelling		•		1.3
Sustainable and digital economy conferences	•		•	0.7
Professional Communication in English	•		•	2
Project (Group Work)	•	•	•	15
ECTS	10	10	10	30

At the heart of the semester lies a **15-ECTS group project**. Working in teams of five, students create a complex software application in response to specifications administered by the professor.

Project Description (SAE 5.A.01)

The project consists of:

- 2 back-end components:
 - one for data management (CRUD)
 - one for information processing, data mining, prediction or classification
- 1 front-end application, fully functional and connected
- Use of at least one external service (e.g. Facebook, Twitter, Google Maps, OpenStreetMap, Amazon Alexa...)

The project must be developed using agility and iterative integration

Technical Stack & Methods

Students explore and combine a wide range of modern technologies:

- Back-end development:
 - General: .NET
 - Information Processing: Python/Flask
- Front-end: Blazor, or JS frameworks such as Angular, React, Vue
- Programming paradigms: REST APIs, Web Services
- Advanced data manipulation: Data analysis, prediction, clustering, classification, text mining

Expected Deliverables (Professional Standards)

- Project tracking and planning documents
- Functional and technical analysis
- Fully documented source code
- Test plans and test data
- Final client presentation with a live demo
- User manual / technical guide

Syllabus

R5.01 - IT TEAM PROJECT MANAGEMENT (8 hrs)

- management and organisation of an IT project team (preparing and managing an IT team, project forecasting, performance and self-efficacy of an IT team)
- behavioural and cross-functional skills of the manager (managerial skills, human skills and behavioural skills)

R5.A.02 - PERSONAL AND PROFESSIONAL PROJECT (GUIDANCE) (8 hrs)

- building your e-reputation
- drafting a professional network
- professional conduct in the context of recruitment

Syllabus

R5.03 - COMPANY CONFERENCES (7 hrs)

- conference reports

R5.A.04 - ALGORITHMIC QUALITY (16 hrs)

- complexity of algorithms
- metrics (e.g. execution time, memory usage, load increase, etc.)
- use of audit tools

R5.A.05 - ADVANCED PROGRAMMING (36 hrs)

- Flask API : Hello World!
- IA : Frameworks and datasets
- Flask API : Database connectors, view, model
- IA : Timeseries prediction
- Flask API : Contexts and Blueprints
- IA : Image ML and Deep
- Flask API : Development
- Flask API : Implementation

R5.A.06 - AWARENESS OF MULTIMEDIA PROGRAMMING (16 hrs)

- image manipulation (2D, 3D, etc.) with Blender and Python

R5.A.07 - AUTOMATION OF THE PRODUCTION LINE (12 hrs)

- continuous integration and development
- use of containers

R5.A.08 - QUALITY OF DEVELOPMENT (26 hrs)

- quality characteristics (e.g. robustness, maintainability, portability, extensibility, etc.)
- inspection techniques (e.g. code review, walkthrough, etc.)
- documentation (e.g. user manuals, training, etc.)
- API.NET / DTO / Blazor / E2E Tests / DB tests

R5.A.09 - ADVANCED VIRTUALISATION (16 hrs)

- partitioning, service isolation
- container technology (e.g. Docker, Kubernetes, Nomad, etc.)
- virtual networks (e.g. virtual private server (VPS), virtual environment (VE), etc.)
- cluster management and configuration (e.g. cloning, backup, restoration, etc.)

Syllabus

R5.A.10 - NEW DATABASE PARADIGMS (36 hrs)

Concepts, data structures and query languages (e.g. mobile databases, embedded databases, object databases, NoSQL databases – deductive, key-value, document, columnar, graph, etc.)

R5.A.11 - OPTIMISATION METHODS FOR DECISION SUPPORT (13 hrs)

- modelling problems in the form of linear programmes (simplex method, etc.)
- heuristic methods for solving problems (e.g. classification, regression, knapsack, travelling salesman, etc.)

R5.A.12 - MATHEMATICAL MODELLING (36 hrs)

Mathematical modelling and calculations related to a specific field of application (e.g. imaging, algebra, artificial intelligence, cloud computing, analytical geometry, video games, particle systems, advanced data visualisation, etc.) :

- Parallelisation
- Exploratory data analysis
- PCA and dimensionality reduction
- Linear and multi-linear regression
- Gradient descent
- Classification
- Perceptron + neural networks
- Deep learning
- Deep learning 2

R5.A.13 - SUSTAINABLE & DIGITAL ECONOMY CONFERENCES (7 hrs)

- conferences reports

R5.A.14 - PROFESSIONAL ENGLISH (32 hrs)

- International CV updates : experience & skills
- Advanced Photoshop
- Selling an IT solution

RECOMMENDED: FRENCH AS A FOREIGN LANGUAGE

- 3.5 hours / week
- several levels available



Applications

Programme Coordinator

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International Office - ILC

Office: A262

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Selection process

- File analysis and interview (videoconference possible)

Free movers & French students

- Application fees : 278€ (to be confirmed for 2026-27)

People in vocational re-training

- The cost of the course is not the same as for students. You are advised to contact the IUT's Continuing Education Service to find out about funding arrangements.

Apply now! <https://ecandidat-usmb.grenet.fr>

Exchange students from partner universities

- No fees.
- Please contact the international Office of your university to apply.

IIBM

ENGLISH-TAUGHT
COURSE

UNDERGRADUATE
FALL SEMESTER
| 30 ECTS |

The International Industrial and Business Management (IIBM) semester is aimed at international students in the final year of their Bachelor's degree and is only available in the fall semester (semester 5: end of August to end of December). All the subjects are taught in English and the classes are a mix of both international and French students in order to enhance the intercultural experience for everyone.

INTERNATIONAL INDUSTRIAL & BUSINESS MANAGEMENT

INCLUDED

INNOVATION WEEK:

START Here, INSPIRE
Everywhere



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CURRICULUM

2026 - 2027



INTRODUCING IIBM

In today's competitive job market, graduates are required not only to be skilled within their specific field, but also to have a variety of other skills and knowledge which will enable them to work with others in a professional environment.

This semester addresses these issues by looking in depth at topics such as 'Team management' and 'Interpersonal skills' through the lens of multiple forms of intelligence. Key functions within a company, such as 'Corporate Social Responsibility', 'Quality Management' and 'Supply Chain' are also studied.

The link with local companies is also important, so students participate in company visits, observe management processes first-hand and do group projects on contemporary topics. In addition to developing rounded professionals, a special emphasis is placed on innovation and how to manage it.

Fact Sheet

220 hours (+ French/ second language)

Bachelor's degree level university diploma
Annecy-le-Vieux campus

Prerequisites : 120 ECTS in Business or Engineering.
For students from other fields or at Master's level, please contact us by email.

English language requirements:
B2/upper-intermediate

IIBM

ENGLISH-TAUGHT
COURSE

UNDERGRADUATE
FALL SEMESTER |
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CURRICULUM

UE 1 – Company Organization

8 credits

01- Master Data Management & A.I.

- Part 1 - The use OF A.I.,
- Part 2 - A.I. "The Augmented Professional".

3 credits

02- Industrial Management

- Quality Management: System/Tooling
- Supply Chain , ERP and Visit

2 credits

3 credits

UE 2 - Creativity and Innovation in Companies

10 credits

03- Innovation Management

- Strategic Innovation Management
- Quality Management: Sustainability Transition - CRS

2 credits

2 credits

04- Managing International Projects

- Managing and Monitoring Projects
- Introduction to Art & Responsible Innovation

2 credits

4 credits

THE INNOVATION WEEK: START Here, INSPIRE Everywhere

UE 3 – International Business Communication

12 credits

05- Teams in an Intercultural Environment

- Team-Building & Communication Tools
- Team Management & Interculturality
- Three forms of Intelligence: EQ+SQ+CQ

3 credits

2 credits

3 credits

06- Foreign Languages

- Option 1: French as a second language
- Option 2: Two Second Languages (2*20 hrs)
(French-speaking students)

4 credits

SYLLABUS

01- Master Data Management & A.I.

Part 1 - The Use of A.I.

THE USE OF A.I. (this course does not focus on prompts or their mechanics)

Step 1: Encourage students to reflect on A.I.

- Tool: The game "A.I. Battle"
- Collective intelligence focus : Social and Environnemental issues

Step 2: Explore, practice, play, understand, learn...

Step 3: Based on all the reflections, create a striking visual – How to capture attention (creative impact)

- Tool: Run 5 prototypes simultaneously to be evaluated by people from the IUT

Part 2 - A.I. "The Augmented Professional"

- Stage 1 - "The challenge of the augmented professional"
The challenges and issues faced by young junior professionals
- Stage 2 – Exploration
Prospective vision A.I. (2030)
- Stage 3 – Leading on A.I.

02- Industrial Management

Quality Management: System/Tooling

This module aims to enable the student to use Quality tools and continuous improvement methods to resolve problems in all types of contexts. Once defined, the students will be able to identify root causes and then propose innovative solutions based on the analysis of problem-relevant data.

- What is quality ?
- Qualimetry and how to measure quality
- Seven basic quality tools
- Continuous improvement: DMAIC, 8D problem-solving method
- Quality problem-solving case studies

Supply Chain Management, ERP & Visit

This module aims to enable the student to understand the cross-functional integration in a supply chain, the strategy, the planning, the operation and the extension of logistics

- General facts and concepts about SCM
- Introduction to flow management and issues (Lean & MRP II)
- Modeling and understanding the Supply Chain (SCOR model, KPI, maturity of SC and organization)
- Procurement (strategy & supplier selection)
- Practical solutions (EDI/VMI/Multipick/MultiDrop/Cross docking/Functionnal Spinoff)

SYLLABUS

03- Innovation Management

Strategic Innovation Management

This module aims to enable students to understand the main issues of the management of innovation and to appreciate the relevant skills needed to manage innovation at both strategic and operational levels.

The management of innovation is one of the most important and challenging aspect of modern organization. Innovation is a fundamental driver of competitiveness and it plays a large part in improving quality of life. Given this, it is essential that students understand the strategies, tools and techniques for managing innovation, which often requires a different set of management knowledge and skills from those employed in everyday business administration.

The course is structured around three main topics:

- 1) What is innovation and what are the searching strategies for innovation
- 2) How can the firm organize internally to develop new products and services and best capture value from these innovation
- 3) With whom should the firm cooperate to maximize innovation.

Quality Management: Sustainability Transition - CSR

This module aims to give the student an introduction to how Quality Management Systems contribute towards the effective management and improvement of an organization. The student will gain a systematic view of how to guarantee quality in a company. Given the importance of climate change in today's world, there will be a particular focus on environmental management as well as on Corporate Social Responsibility.

- ISO 9001 & FD X50-818 requirements; document creation
- Process mapping
- Audits
- Introduction to Safety management
- Environmental management: ISO 14001 & environmental analysis
- Corporate Social Responsibility

04- Managing International Projects

Managing and Monitoring Projects

By mixing practical and theoretical approaches, this course aims at providing students with the foundations of project management knowledge. It will put the students in a simulated project management environment and provide the knowledge and tools to approach and lead its development.

- Introduction to project management for digital events
- Planning digital events: objectives, scope, and deliverables
- Stakeholder management: engaging influencers, sponsors, and audiences
- Digital marketing and audience engagement strategies
- Risk management: mitigating technical and PR issues

SYLLABUS

Introduction to Art & Responsible Innovation - THE INNOVATION WEEK (Group Project)

This module aims to give the students an idea of the 'terrain' and create links between what they have done in the various modules during the IIBM semester and how that pans out in reality. This year, during the Innovation Week "START Here, INSPIRE Everywhere", Students will spend a full week immersed with professors, professionals, scientists in our Lab, students from other trainings and campuses, and artists, exploring how innovation thrives when we connect human creativity, community, and technology.

- Team Building
- Marketing study
- Conferences & round tables
- Project building
- Communication tools: flyers – Theatre and other surprises

05- Teams in an Intercultural Environment

Communication for successful presentations

1/ What is a successful presentation

- How To Start A Presentation Strong And Powerfully
- Effective Public Speaking Skills & Techniques To Master
- Improvisation & presentations

2/ Tools to become more efficient with the exercise

- Effectiveness of Communication : the rule of 93 vs 7
- The Five Dimension of Persuasion : Logos - Ethos – Pathos
- Mind mapping
- Pitch Yourself / 'Entrepreneur Elevator Pitch
- Negotiation
- Getting ready for Salomon Company visit – introduction to a job interview...

Team Management & Interculturality

This module aims to enable the student to become aware of cultural differences and integrate intercultural communication into professional team projects such as advertising strategies.

- Hofstede's theory of interculturality: the 6 dimensions of culture
- Cross-cultural communication within a business organisation
- International communication: Global and Local Advertising + technical tools
- Group project: teamwork and assessment

Three forms of Intelligence: EQ+SQ+CQ

This module focuses on the three forms of intelligence (Cultural, Emotional and Social) as tools to help students become more self-aware, by identifying their strengths and develop strategies to progress in transversal skills. An emphasis will be placed on the use of metacognition for personal development and mobilizing the different aspects in a teamwork context.

- Introduction: What is Culture?
- Cultural Intelligence (CQ): structure and outcomes
- Emotional (EQ) and Social (SQ) Intelligence: structure and outcomes
- Application of the three forms of intelligence to teamwork and personal interaction during the semester
- Analyze a film with a strong element of Cultural and/or Emotional and/or Social Intelligence
- Research articles on the different forms of intelligence.
- Individual portfolio



IUT ANNECY

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Programme Coordinator

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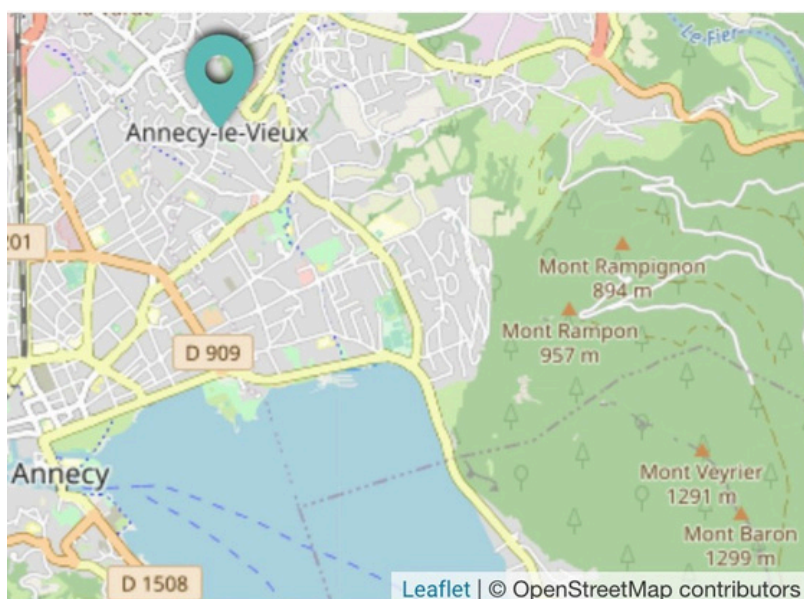
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Licence Professionnelle
Bachelor's Degree

OSDD

ENGLISH-TAUGHT
COURSE



The Outdoor Softgoods Design & Development Bachelor's Degree is a one-year international programme designed for both French and international students who have completed two years of higher education and wish to specialise as product developers in the sports industry.

During the Autumn semester (S5), students will study at IUT Annecy, gaining in-depth knowledge and hands-on experience. In the Spring semester (S6), they will complete a 4-to-6-month internship within a company, applying their skills in a real-world professional environment.

All courses are taught entirely in English, and classes bring together both French and international students, fostering a rich intercultural experience and a global perspective on the industry.

OUTDOOR SOFTGOODS DESIGN & DEVELOPMENT

2 x 30 ECTS

CURRICULUM 2026 -2027



IUT ANNECY
9, rue de l'Arc-en-Ciel
74940 Annecy, France (FR)



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Caroline.althey@univ-smb.fr

INCLUDED

A group project for
a leading company
in the industry!



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Introducing OSDD

This programme aims to equip future technicians with the essential skills in developing and managing clothing, bags, and textile accessories, ensuring their success in the highly competitive outdoor sports industry.

The sports industry is constantly evolving and in need of young professionals—future product managers capable of developing innovative strategies to meet customer needs. Their role is essential in optimising both products and their communication for better market performance. Students in this Bachelor's programme will learn how to create effective roadmaps, analyse and anticipate market trends, and facilitate seamless collaboration between key stakeholders, including engineers, marketers, designers, and executives.

If you are a athlete or a fashion enthusiast and have honed your decision-making skills through a two-year scientific, technical, business or design programme, you are ready to apply for Europe's first one-year course in *Outdoor Softgoods Design & Development*.

Fact Sheet

- Sept.-Sept. academic year
- 100% full-time
- 4-6 months internship
- 20 students maximum
- 2 semesters (2x30 ECTS)
- 450 hrs + a 120-hr project
- IUT Annecy-le-Vieux campus
- Prerequisites : 120 ECTS in higher education
- English language requirements: B2/upper-intermediate



THE PERFECT MATCH

Outdoor Sports Valley

The Outdoor Sports Valley (OSV) association was created in 2010 with the Grand Annecy Urban Community. It was born out of the desire of companies and local authorities to develop, federate and promote the sports and outdoor industry. This is a sector that has been well established locally for several decades, with historic French brands such as Salomon, Millet, Fusalp and TSL.

The many initiatives put in place for the industry have been carried out with dynamism, integrity, professionalism and a collaborative approach. The association quickly extended its reach to the whole of the Auvergne-Rhône-Alpes region, then to the whole of France and Switzerland. Bringing together more than 500 players, OSV was awarded the 'Cluster of the Auvergne-Rhône-Alpes Region' label in 2018. OSV is a partner of the Grand Annecy Urban Community in running the Annecy Base Camp business incubator and supporting volunteer entrepreneurs.

Above all, OSV is a network, a community, that shares strong values: creation, sharing, commitment and sustainable development. A group where companies grow together, in a spirit of entrepreneurship and innovation.

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As a key player in higher education in OSV's initial founding region, IUT Annecy thrives in a dynamic ecosystem, collaborating closely with leading companies from Outdoor Sports Valley. Thanks to its solid industry network and specialised programmes, it has naturally established itself as the ideal partner for training experts and specialists in the outdoor sports textile industry.

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1,400
staff members

240
PhD students



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Industry-driven Education

- Learning from industry professionals

SALOMON **MILLET**  **Columbia**

 **JONATHAN
& FLETCHER**

Samaya

 **idéal
sport**

MAVIC

DECATHLON


- Professional events and technical trade fairs throughout the year

 **RENCONTRES
NATIONALES DE
L'OUTDOOR**
GRENOBLE ALPEXPO

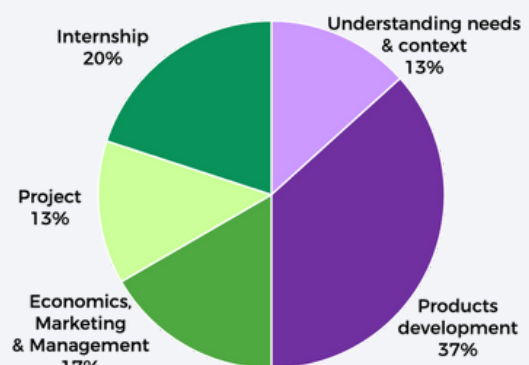
 **SPORTACHAT**

 **ISPO
Munich**

**HIGH
FIVE
FESTIVAL**

- OSDD Bachelor's Degree : driven by professionals, powered by 

In the Outdoor Softgoods Design & Development Bachelor's Degree, **90% of the faculty** come from the industry, ensuring that the curriculum stays closely aligned with real-world professional needs. This hands-on approach equips students with practical skills, industry insights, and a clear understanding of their future careers.





A Highly-Specialised Course

Highlights

- The Bachelor's Degree prepares students for specialised careers such as Product Developer and Product Line Manager.
- Included in the programme: a group project to conduct a comprehensive study, sometimes leading to production, for a company within the OSV network :
 - 120 hrs per student
 - October to February
 - 1 review per month

Requirements

Soft skills: a strong interest in outdoor sports & fabrics, textiles, apparel & clothing; initiative, curiosity, flexibility, autonomy, and excellent organisational skills.

Prerequisites: 120 ECTS in higher education (BUT GMP, BUT SGM, BUT GACO or GEA, DN-Made Mode, BTS innovation textile, Bachelor's or Master's Degree in Product Design, Bachelor or Master's Degree in Engineering, Mechanical Engineer, Bachelor's or Master's Degree in Management, Bachelor's or Master's Degree in Sports / STAPS)

English language requirements:
B2 / Upper-intermediate

Programme

2 x 30 ECTS

S E M E S T R E 5

ECTS: 30

- Sports Industry Culture Conf - Visits - Fairs 2
- Sustainable Development in the Sports Industry 2
- Biomechanics & Sports Physiology: Comfort & Performance 2

UE501 - Total ECTS 6

- Textile Technical Fundamentals 4
- Fabrics Performance Laboratory 4
- Design Culture 1
- Product Design - Pattern Making and sewing 5

UE502 - Total ECTS 14

- Project Management, Methodology and Tools 2
- Product Management - Industrialisation Economics 4
- Product & Service Design 2
- Product Marketing in the sporting Goods Industry 2
- Professionnal Communication -
- LV2 ou French (optional) -

UE503 - Total ECTS 10

S E M E S T R E 6

ECTS: 30

- Group project - OSV Academy Challenge 8

UE 601 - Total ECTS 8

- Design Vision through Footwear 1
- Textile Manufacturing 2
- Accessories (backpack, gloves...) 1
- Product Development 4
- Industrial Fundamentals in the Sports Industry 1
- Product Marketing in the Sporting Goods Industry 1

UE 602 - Total ECTS 10

- Stage (4 à 6 mois) 12

UE 603 - Total ECTS 12



Applications

Programme

Coordinators

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Mon., Tues., Thurs.:

08h15-12h15 / 13h30-16h15

Fri.: 08h15-12h10

Selection process

- File analysis and interview (videoconference possible)

Free movers & French students

- Application fees : 278€ (to be confirmed for 2026-27)

People in vocational re-training

- The cost of the course is not the same as for students. You are advised to contact the IUT's Continuing Education Service to find out about funding arrangements.

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OSDD

ENGLISH-TAUGHT
COURSE



OSV
Outdoor Sports
Valley



**ANNECY &
ITS REGION:**



**YOUR
ULTIMATE
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EXPERIENCE!**



French 'Dream City'

2025 Ranking:

3rd Best City!



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