brittsimperial.com

PG DIPLOMA IN SOFTWARE ENGINEERING

BRITTS IMPERIAL
UNIVERSITY COLLEGE

TABLE OF
CONTENTS

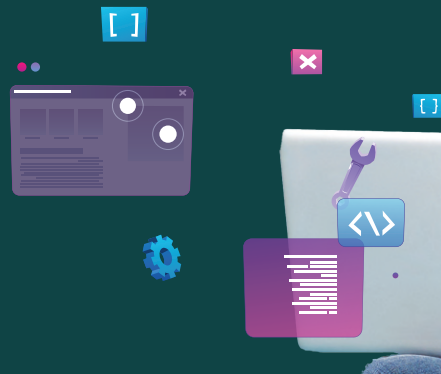**BRITTS IMPERIAL**
UNIVERSITY COLLEGE

The Postgraduate Diploma in Software Engineering is meticulously crafted to equip students with the essential knowledge and skills vital for success in the dynamic field of software engineering.

This comprehensive program immerses students in a transformative learning experience that emphasizes key areas, including software design, development methodologies, testing, maintenance, Agile Transformation, and Enterprise Resource Planning (ERP) systems. By delving into these critical domains, students gain the expertise necessary to proficiently design, develop, and maintain high-quality software systems, while also understanding the nuances of Agile methodologies and the implementation of Enterprise Resource Planning systems.

With a strong focus on building a solid foundation, the program commences by enhancing students' understanding of fundamental software engineering principles, programming languages, system architecture, and the principles of Agile Transformation—a pivotal aspect in modern software development. The learning further includes an exploration of advanced software engineering practices, where students master the art of systematic design, coding, testing, and documentation, ensuring the reliability and scalability of software solutions, including those integrated into Enterprise Resource Planning systems.

OBJECTIVES

» **Develop Core Competencies**

» **Foster Agile Methodologies Proficiency**

» **Integrate ERP System Knowledge**

» **Encourage Systematic Problem-Solving**

» **Enhance Collaboration and Communication Skills**

» **Facilitate Practical Application**

CAREER OPPORTUNITIES

Graduates of the Postgraduate Diploma in Software Engineering are well-prepared for a wide range of career opportunities. Some potential career paths include:

» **Software Developer/Engineer**

» **Agile Project Manager**

» **Systems Architect**

» **Quality Assurance Engineer**

» **ERP Consultant**

» **DevOps Engineer**

» **Technical Lead**

» **Software Development Manager**

» **IT Consultant**

ABOUT EUCLÉA

Eucléa Business School, a Collège de Paris member, is a leader in business, technology, and management education. We provide complete training from Post-Bac to Bac+5 at our sites in Strasbourg, Metz, Mulhouse, and Reims. Eucléa is dedicated to pedagogical excellence and personal development, with the goal of improving your abilities, broadening your perspectives, and preparing you for a bright future. Join us for an exciting student experience!

Britts Imperial University College (UAE) is a well-known center for top-tier technology and business education in the Middle East and worldwide. With over 3000 students, it has a strong reputation, particularly for its innovative online and hybrid learning approaches. The college prioritizes student placements and promotes accessibility through partnerships with various organizations.

ABOUT US

STUDENT
TESTIMONIAL

Nisha Shah
Associate Director | Rethink ME Ltd.

"At Euclea Business School and Britts Imperial University College, , I am thankful to all the lecturers who supported us and made this course very interesting and interactive. Adding to this, after studying International Business, I have a better understanding on how to oversee a diverse team, perform research within a global context and improve my business performance."

★ ★ ★ ★ ★

Mufeed Ahmed
Content Associate | Instashop, UAE

"The PG Diploma program from Euclea Business School (Britts Imperial University College) in Artificial Intelligence gave me the feeling of contentment and accomplishment. The program is delivered in a flexible style that offers the best return on your investment compared to any other program. I would highly recommend it to any working professional looking to earn an MBA degree, gain your precious time and take your professional career to entirely new level.

★ ★ ★ ★ ★

Manali Khara
Family Business | Maxsell Petrochem Pvt. Ltd.

"The PG Dip program from Euclea Business School and Britts Imperial University College had a significant impact on my professional development. It helped me to develop better proficiency in digital marketing. I was able to apply the skills and knowledge developed in the program with my job which resulted in several immediate professional successes.
"

★ ★ ★ ★ ★

Abdul Matin
Operation manager | Nest Academy

"After joining Euclea Business School (Britts Imperial University College), I got in-depth knowledge about management and corporate. It also provided me with a path to build my career and helped me with expertise in Project Management, with skills in Time Management & Leadership."

★ ★ ★ ★ ★

Meet Mandaliya
Executive Sales Coordinator | N.K.Pharma PVT. LTD

"As far as academics is concerned, Euclea Business School (Britts Imperial University College) provides an excellent foundation for a smooth take-off in our respective careers. The career progression programs such as Career Assessment and especially the Global Job Search Engine have given us an overview and exposure to the professional world. I must say studying at BIUC has been a wonderful experience."

★ ★ ★ ★ ★

Chinmayee Sule
Relationship Manager | HDFC BANK

"I am proud to say that I belong to this wonderful temple of knowledge Euclea business school (Britts Imperial University College). I was highly elated when I got the admission and got certified in Data Analyst, in this short period without compromising my job. I appreciate that they worked on our flexibility as professionals."

★ ★ ★ ★ ★

brittsimperial.com ◀ ◀ ◀

KEY HIGHLIGHTS

- Interactive Live Sessions Led by Global Experts

- Over 200 Hours of Guided Learning

- Continuous Support Available Seven Days a Week

- Real-World Industry Projects and Case Studies

- 15+ Tailored Industry Sessions for a Personalised Experience

- 10+ In-Depth Case Studies to Enhance Your Skills

- Interview Preparation and Mock Interviews for Career Success

- Hands-On Experience with Building Your Own Product (BYOP)

- A Career-Centric Approach to Achieve Your Goals

- Two Years of Unlimited Access to High-Quality Content

- Euclea Certification to Validate Your Expertise

- Customised Resume Building Exercise for Professional Enhancement

- Lectures by Highly Qualified Professors and Industry Experts

- More Practical-Driven Learning Through Industry Case Studies, Assignments, and Simulations

- Migration Opportunity to France or Dubai (Upon Visa Approval)

- Pathway to WES CANADA AND UK NARIC Recognized, Equated to Canadian Masters and British bachelor's degree.

- Assistance in Capstone Project Development

- Placement and Internship Opportunities

COURSE STRUCTURE

PGDIP – PG Diploma in Software Engineering (RNCP 36129)

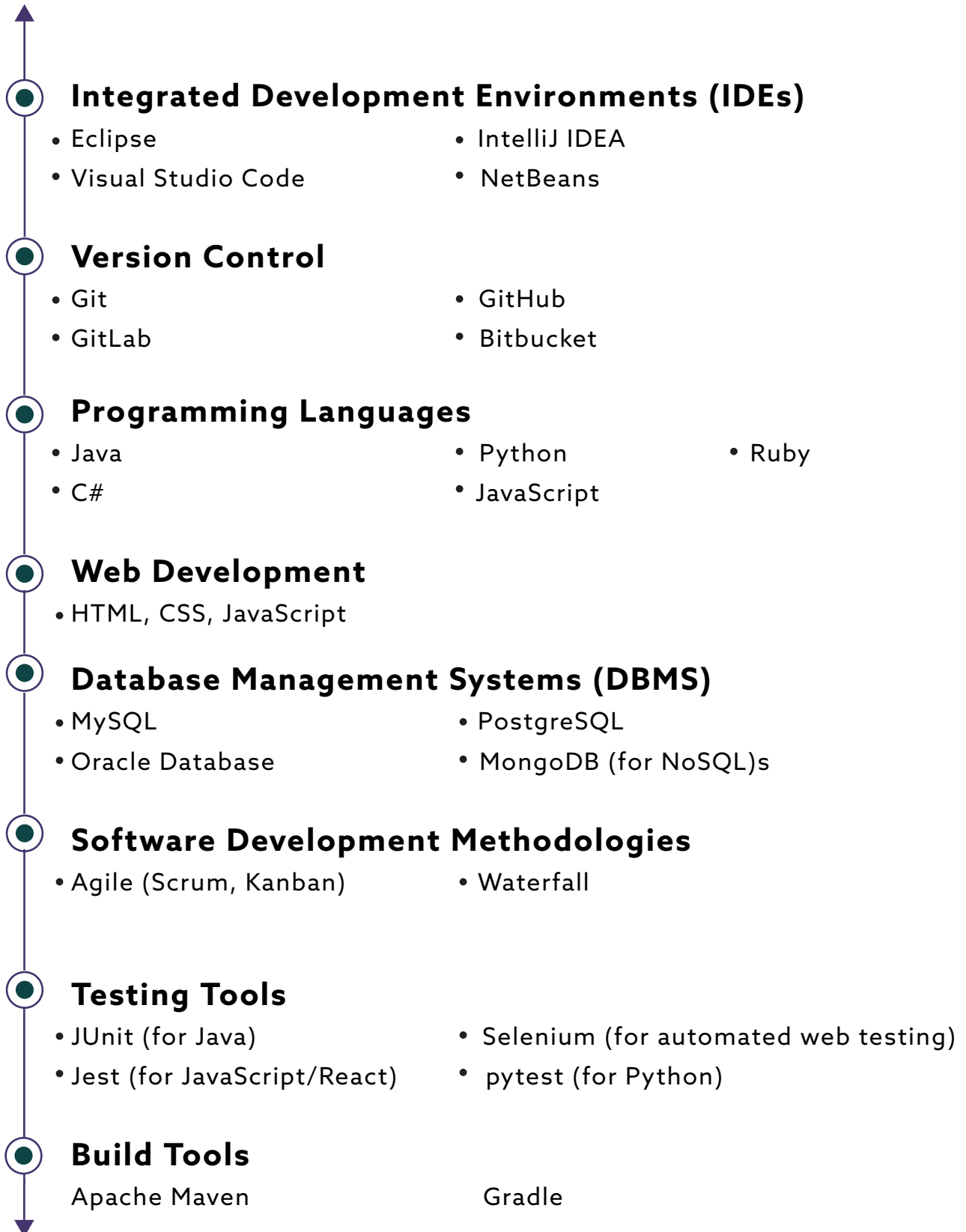| Year	BIG Code	Course Code	Bloc	Course Title	Credits
Yr-1	MSCC001	MICC	-	Managing Innovation and Change in Computing	10
	MSCC002	SDUE	-	Systems Development and User Experience (UX)	10
	MSCC003	IMCS	-	Implementing and Managing Cyber Security	10
	MSCC004	BIS	-	Business Intelligence Systems	10
	MSCC005	IP	-	Independent Project	10
	MSCC006	AT	-	Agile Transformation	10
	MSCC007	ERP	-	Enterprise Resource Planning System	10
Total Credits (ECTS)					70

Progression pathways

Programme	Year of Entry	Total Credits Required	Total Credits Earned	Progression Route	Awarding body
MSc Computing	2nd Year	70	120	Postgraduate Diploma in **Software Engineering**	Euclea, France

PROGRAM TIMELINE

Timeline	Particulars	Fees Timeline
	Application Submission	
	Document Verification	
	Eligibility Check	
	Provisional Submission	Admission Fee
	Application Acceptance	
	Admission Acceptance	1st Installment
Week 1	Module 1 Managing Innovation and Change in Computing	Remaining Fee Pay in Installment
Week 5	Assessment	
Week 6	Module 2 Systems Development and User Experience (UX)	
Week 10	Assessment	
Week 11	Module 3 Implementing and Managing Cyber Security	
Week 15	Assessment	
Week 16	Module 4 Business Intelligence Systems	
Week 20	Assessment	
Week 21	Module 5 Independent Project	
Week 25	Assessment	
Week 25 - 29	Break	
Week 30	Module 6 Agile Transformation	
Week 31	Assessment	
Week 35	Module 7 Enterprise Resource Planning System	
Week 36	Assessment	
Week 37	Project Work	
Week 48	Project Work Submission	
Week 51	Project Defense	

TOOLS AND TECHNOLOGIES

Integrated Development Environments (IDEs)
- Eclipse
- Visual Studio Code
- IntelliJ IDEA
- NetBeans

Version Control
- Git
- GitLab
- GitHub
- Bitbucket

Programming Languages
- Java
- C#
- Python
- JavaScript
- Ruby

Web Development
- HTML, CSS, JavaScript

Database Management Systems (DBMS)
- MySQL
- Oracle Database
- PostgreSQL
- MongoDB (for NoSQL)s

Software Development Methodologies
- Agile (Scrum, Kanban)
- Waterfall

Testing Tools
- JUnit (for Java)
- Jest (for JavaScript/React)
- Selenium (for automated web testing)
- pytest (for Python)

Build Tools
Apache Maven   Gradle

FAQ

1 How does the program stay current with industry trends, and how are the curriculum and courses updated accordingly?

The program maintains relevance by regularly updating its curriculum to align with industry trends. Faculty members actively engage with industry professionals, attend conferences, and participate in ongoing professional development to ensure that the courses incorporate the latest advancements and technologies in the ever-evolving field of software engineering.

2 How does the program balance theoretical knowledge with practical, hands-on experience?

The program emphasizes a balanced approach to learning, combining theoretical knowledge with practical, hands-on experience. Through a combination of classroom instruction, laboratory exercises, and real-world projects, students gain a comprehensive understanding of software engineering concepts and the practical skills needed for effective application in professional settings.

3 Can students specialize in specific areas within software engineering, such as cybersecurity or artificial intelligence?

Yes, the program often allows students to specialize in specific areas within software engineering. Specialization options may include cybersecurity, artificial intelligence, data science, or other emerging fields. This flexibility enables students to tailor their education to align with their career goals and interests.

4 How does the program foster a collaborative learning environment among students?

The program promotes a collaborative learning environment through group projects, team-based assignments, and interactive class discussions. Students often work together on real-world projects, fostering teamwork and communication skills that are essential in the professional software engineering landscape.

5 Can I pursue a master's degree after completing this program?

Many students who complete this diploma program go on to pursue further academic studies at the master's then Ph.D. level. The skills and knowledge gained can provide a solid foundation for advanced research in the field of technology.

6 Is this program internationally recognized, and can I work abroad after completing it?

Yes, the program is recognized internationally. However, the skills and knowledge gained are generally transferable, allowing graduates to pursue opportunities globally.

7 Is this program suitable for someone looking to start their own tech business or startup?

Yes, the program equips students with skills and knowledge relevant to tech entrepreneurship, allowing them to develop and launch their own technology startups with a strong technical foundation.

8 How does the program incorporate industry partnerships and internships to provide real-world exposure to students?

The program actively collaborates with industry partners to offer internships and real-world projects. These partnerships provide students with valuable hands-on experience, exposure to industry practices, and the opportunity to apply their skills in a professional setting. Internships also serve as a bridge between academia and industry, facilitating smoother transitions for graduates into the workforce.

BRITTS IMPERIAL
UNIVERSITY COLLEGE