

ADVANCED COMPUTER BUSINESS APPLICATION

Code du cours Course Code BAC.EAINA.ISCSE.2 301			Titre du cours Course title ADVANCED COMPUTER BUSINESS APPLICATION					
Crédits Credits 6		Période d'enseignement Teaching period fall, spring					Année Académique Academic Year 2022/2023	
Charge de travail Student workload	Synchrone / Synchronous	Asynchrone / Asynchronous	Travail en équipe Team work	Activités pédagogiques / Pedagogical activities	Travail personnel Personal work	Coaching	Evaluation	Charge totale de travail Total workload
	39	0	0	0	0	0	6	45
Programme Program			Global BBA					
Discipline Discipline								
Module			-					
Type de cours Course type			core					
Campus			Barcelone, Lille, Nanjing, Raleigh, Sophia					
Campus partenaire								
Course open to students in exchange								
Langue d'enseignement Teaching language		Anglais / English						
Responsable du cours Course leader			MILLELIRI André					
Pré-Requis Prerequisite			Consumer Computer Applications					
Nom des intervenants par campus Instructor(s) names by campus	Belo Horizonte							
	Lille							
	Paris							
	Raleigh							
	Sophia							
	Stellenbosch- Le Cap							
	Suzhou							
	Nanjing							

	Barcelone			
	Other			

Descriptif du cours / Course description	<p>This course introduce the basis of VBA programming of macros applied in Excel as well as general algorithms used in programming. Students will learn the general objects used in Excel programming as well as the basic keywords. Applications will be reviewed along labs and the final project.</p>
Thèmes / Topics	
Résultats d'apprentissage / Intended Learning Outcomes and Skills	<p>A l'issue de la formation, vous serez capable de / As a result of this module, you will be able to:</p> <p>Connaissances / Knowledge and Understanding (subject specific) understand the basis of VBA programming and algorithm structures.</p> <p>Aptitudes cognitives / Cognitive skills be able to write a specific processing algorithm based on the target to reach and how to find resources on internet</p> <p>Attitudes / Key transferable skills be able to analyse a practical situation and propose an automatic treatment of data</p> <p>Ethical and social understanding be able to write an Excel macro dedicated to a specific situations</p>
Contribution aux objectifs pédagogiques du programme / Contribution to learning objectives	<p>Indiquer les learning objectives auxquels contribue le cours (en se basant sur le curriculum mapping du programme) / Indicate which learning objectives the course contributes to (based on the program curriculum mapping)</p> <p>LO3.2 : To produce clear, well organized written communication : LG3 : Graduate should be able to communicate in an international environment</p> <p>Cours soumis à évaluation dans le cadre de l'Assurance of Learning pour l'année en cours ? Non / No</p>
Evaluation des étudiants / Student Assessment	<p>Evaluation finale (DS) / Final examination 40%</p> <p>(Précisez la nature pour l'évaluation finale / Explain type for final examination)</p> <p>Cliquez ici pour entrer du texte.</p> <p>QCM - Quiz: Epreuve sur table - Supervised exam: Présentation orale - Presentation: Rapport écrit/Dissertation - Report / Dissertation: Participation - Class participation:</p>

	Autre, précisez / Other, precise:	
	Contrôle continu	60%
	Continuous Assessment	
	préciser nature / Explain type	
	Cliquez ici pour entrer du texte. QCM - Quiz: Epreuve sur table - Supervised exam: Présentation orale - Presentation: Rapport écrit/Dissertation - Report / Dissertation: Participation - Class participation:	Nb midterms : 2
	Autre, précisez / Other, precise:	
Méthodes d'enseignement Teaching Methods	Format de cours / Course format	
	Cours magistral / Lecture - TD / Tutorials	
	Autre, précisez / Other, precise:	
	Activités d'apprentissage / Learning activities	
	Personal guided study	
Plan de cours Course Plan	Introduction. Reviews on Excel advanced formulas. Lab #1: Excel formulas.	
	Introduction to VBA macro Recording macro and understanding the code generated. Introduction to VBA editor Lab #2: samples recorded macro	
	VBA syntax. Sample and common VBA objects Lab #3: sample data processing	
	Variable type and declaration. User interaction. Lab #4: setting a programming environment	
	Decisions making and operators Lab #5: application of conditionnal programming	
	Data processing: loops Lab #6: applications of automatic processing	
	Midterm test 1	
	Data processing: loops Lab #7: applications	
	Lab #8: Applicatinos of VBA tools and concepts	
	Functions: Excel type and user-defined Lab #9: applications of VBA functions	
Procedures and Events		

	<p>Lab #10: user-defined procedures. Applications on data sorting</p> <p>Midterm test 2</p> <p>VBA forms Lab #11: creating an Excel form</p> <p>VBA forms Lab #12: Creating an Excel form and programming the interaction with an Excel sheet</p> <p>Lab #13: Data Mining and data processing Submission of final projects</p> <p>Final Exam</p>
Référence Académique / Academic reference	
Site(s) web / Web site(s)	
Licence(s) informatique(s)/ Computer licenses	

	Modalités de délivrance du cours (par campus si différent) Course delivery modes (per campus if different)					
Nombre CM Amphi / Number of Lectures	Durée CM Amphi (en heures) / Lecture duration (in hours)	Nombre TD / Number of Tutorial classes	Durée TD (en heures) / Tutorial class duration (in hours)	Asynchrone / Asynchronous	Autres (Distance learning, etc...) (en heures) / Other (in hours)	Préciser les spécificités de programmation (TD journée, cadencement spécifique des séances) / Specify if full-day tutorial class, different schedules
	Campus Sophia					
0	0	13	3	0	0	