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## Spring Semester 2016 Unit Description

The University of Sheffield International Faculty offers a wide range of units in the disciplines of Business Administration and Economics, Psychology, Computer Science and English Studies.

Language of instruction and assessment is English throughout. For some units prerequisites may apply. It is suggested that candidates express their interest and state their qualifications in order to get approval in principle for registration in these units.

### Psychology Department

<b>Year 1</b>
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**CPY1102      Topics in Psychology      ECTS Credits: 10**

This unit will provide an overview of key areas of psychological research, including cognitive functions and higher order mental processes, developmental processes, social interaction, consciousness, individual difference and mental disorders. Traditional approaches and current trends in psychological inquiry will be discussed, and this will allow students to expand their knowledge and comprehension of psychology during the formal lectures. Students will also attend several seminars that will enhance their academic, writing, and critical thinking skills, and have the opportunity to participate in classroom discussion on emerging psychology topics.

**CPY1103      Discovering Science      ECTS Credits: 5**

The unit is an introduction to science for psychology students in their first level. Specifically, the unit explores the methods, techniques and reasoning skills that underpin the science of psychology. Part of this unit will entail practical laboratory classes that will assist students in discovering the scientific methodology and basic techniques for conducting research. The unit will assist students in discovering research in a wide range of disciplines in psychology such as cognitive, social, developmental psychology and neuroscience. It will encourage students to participate in experimental and non-experimental designs commonly practiced in psychology. In addition, students will be involved in research exercises that will increase their understanding of scientific methodology in psychology.

**CPY1104      Applied Psychology      ECTS Credits: 5**

This unit studies the processes involved in the adjustment of individuals to their personal and social environments. Emphasis will be placed upon developing understanding and skills in the areas of interpersonal relations and psychological and physical well-being. Topics include: Adjustment, Personality, Self-concept, Self-esteem, Self-efficacy, Self-regulation, Coping processes, Interpersonal communication, Interpersonal conflict, Friendship and Love and Marriage and Intimate relationships. Applications include: improving academic performance, achieving self-control (behaviour modification), building self-esteem, developing an assertive communication style, and understanding intimate violence.



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**CPY1109      Evolutionary Psychology      ECTS Credits: 5**

This unit is devoted to examining the ways in which the growing, influential and promising field of evolutionary psychology can shed light on the nature of the human mind and behaviour. The unit begins with an introduction to evolutionary theory and a discussion of some foundational issues concerning its nature and structure. The purpose of this unit is also to introduce a different way of thinking about behaviour in terms of its adaptive significance. Finally, implications of the evolutionary psychology approach for the mainstream academic fields of psychology - cognitive, social, developmental, clinical, personality psychology - are considered.

**CPY1126      Philosophy of Science      ECTS Credits: 5**

This unit will introduce students to the historical foundations, methods and implications of scientific research in society, as well as the ethics of scientific research, with special emphasis in the field of Psychology. The unit's basic topics will be the philosophical foundations of the scientific method; what exactly is science and how scientific explanation works; what is scientific data, its reliability, its ecological validity and its restrictions. Furthermore, the unit will deal with ethics throughout the development of science and the ethical issues that arose during this process.

**YEAR 2**

**CPY2214      Memory and Language      ECTS Credits: 5**

This unit provides an overview of information processing approaches to the study of language, memory and thought. It illustrates the way research in different branches of psychology has been brought to bear on these cognitive processes. The main concepts of all three areas are introduced and their interrelation is displayed. Different approaches of investigating human cognition are presented and theories of all three cognitive activities are demonstrated and critically discussed.

**CPY2211      Contemporary Issues in Educational Psychology      ECTS Credits: 5**

This unit critically examines the role of the educational psychologist and explores the relationship between theory and practice within the educational system, placing emphasis mainly on early intervention. The students will learn to review these topics critically and to expand their knowledge, comprehension, analytical, and evaluation skills by drawing on the information that is presented to them during the formal 2-hour lectures. The achievement of the learning outcome is measured through one tutorial essay and a final two-hour examination.

**CPY2215      Psychology of Employment, Employability & Enterprise      ECTS Credits: 5**

Every day people spend much of their precious time at work. Some employees work only in the morning, while others change between day and night shifts. Others are concerned with managing their time between family issues and everyday job demands. On the other hand, organizations seek to find employees motivated to cooperate with their leaders and put effort to achieve organizational goals. The existing financial crisis has led to layoffs across Europe, and employees seeking new employment opportunities are often concerned about employability, entrepreneurship, and lifelong learning issues. In short, the workplace is an ecosystem, an



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arena of dynamic interaction between people, and employment emerges as an important issue in both developed and developing countries. Psychologists play an important role as they are often called to resolve workplace matters by applying the science of psychology at work. This unit concerns research and the applications of psychology in the industry, business, and organisations, and the main themes covered relate to occupational stress and well-being at work, values and personality in the workplace, employee motivation and performance, as well as the social context of work.

**CPY2217      Forensic Psychology      ECTS Credits: 5**

The purpose of this unit is to provide students with knowledge and understanding of the main concepts of Forensic Psychology and Criminal Investigation. The students will learn about the fundamental psychological theories of crime and how they are applied in criminal behaviour through case studies. Students will be asked to be actively involved in understanding criminal behaviour and on how a psychologist may participate in the legal systems' procedures.

**CPY2203      Social Psychology      ECTS Credits: 5**

Social psychology's big ideas rest on the principles that people do not live their life in a vacuum; rather they are social beings who interact with others, communicate, share emotions, and exchange ideas on a daily basis. This unit will explore some of the most fundamental questions in social psychological research including the way people understand themselves in social contexts, what breeds prejudice and conflict, and what makes some people more susceptible to persuasion attempts than others.

**CPY2223      Statistics      ECTS Credits: 5**

Statistics is an intermediate course to statistical analysis using inferential methods. The unit will provide students with the skills necessary to analyse quantitative and categorical data obtained in empirical research.

**YEAR 3**

**CPY3305      Cognitive Neuropsychology      ECTS Credits: 5**

The initial lectures will introduce the discipline and methods of cognitive neuropsychology, with a special emphasis on key aspects, such as transparency and single-case vs. group studies. Then the major neuropsychological disorders will be discussed: agnosias (object recognition), prosopagnosia (face processing), disorders of memory, neglect, neuropsychology of emotions, and frontal lobe syndrome, disorders of language and lateralization.

**CPY3309      Social Cognition and Behaviour      ECTS Credits: 5**

This unit will provide an in-depth analysis of contemporary topics in social psychology. Implicit social cognition and automatically activated processes will be discussed, and students will have the opportunity to learn how the discipline of social psychology has advanced to incorporate new concepts, methodologies, and trends, including social neuroscience. On the whole, the unit will present the state-of-the-art in social psychological research, and at the same time remind students of the philosophical background and origins of modern social psychological theories.



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**CPY3315 Issues in Clinical Psychology ECTS Credits: 5**

This unit provides students with knowledge and understanding of the main issues entailed in Abnormal Psychology. The main focus will be placed upon the different issues of Abnormality with an emphasis on the clinician-client relationship, personality disorders, human sexuality, as well as legal and ethical issues in Abnormal Psychology. The unit is delivered in a formal lecture mode; however, critical participation of the students will be encouraged through case studies, exercises, and/or role playing through which the theoretical parts will be displayed practically.

**CPY3317 Psychology of Health and Well-Being ECTS Credits: 5**

The unit introduces students to issues related to health and well-being at theoretical and practical level, with reference to policy making. It incorporates current research trends, theories, findings, and practices that align with the research and funding strategic priorities of the European Union for the next decade.

**CPY3399 Research Project in Psychology ECTS Credits: 20**

The purpose of this unit is to provide students with an opportunity to develop an independent research project on a particular topic of their choice. Students will determine an appropriate topic for research, review the literature on the subject, recruit participants, collect and analyse data, report the results in the form of an APA-style paper, and make conclusions and recommendations for future research. This procedure will allow students to demonstrate their knowledge about the scientific enterprise and their ability to critically use literature and issues arising within the specific topic.

## Business Administration & Economics Department

<b>YEAR 1</b>
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**CBE1000 European Union ECTS Credits: 5**

The course consists in a critical presentation of the creation, the content and the future of the E.U. It introduces key developments, institutions and policies. All the critical points are discussed from a political, historical and economic point of view. Specific attention will be given to the today economic crisis in the European Union.

**CBE1200 Principles of Marketing ECTS Credits: 5**

Marketing is the business activity that identifies developing and changing marketing needs, designates market segments. The company can appeal to effectively, develops products and services that satisfy needs of target customers, prices, promotes and uses the most appropriate channels to make these products and services available.

Marketing activities apparently have not changed. The environment though where marketing is practised has changed considerably in the past two decades. Fierce competition, very short product life cycles, global markets, internet and its applications create a very challenging environment for today's enterprises where marketing has become indispensable. This unit provides a good understanding of all the main concepts of marketing in the contemporary environment.



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**CBE1300 Principles of Accounting**

**ECTS Credits: 5**

The aim of accounting is to provide information about the operations of a business such as what they own, what they owe, whether or not it earned a profit and how cash flowed in and out of the business.

In the business context, accounting may be viewed as an information system that measures, processes and communicates information, primarily financial in nature, about a business entity for the purpose of making business decisions. This information is not only important to business management, but it is also meaningful to business owners, creditors, unions, government authorities, investors, etc. An important aspect is to explore the techniques for presenting a company's financial position, earnings and performance.

**CBE1400 Principles of Business Statistics**

**ECTS Credits: 5**

This introductory unit provides an understanding of the basic statistical methods required for the study of business related problems. The unit introduces students to the assumptions, concepts and techniques used by statisticians to make decisions.

The aim of this unit is to develop basic statistical skills so students can apply them to business problems.

Emphasis will be given to estimation and hypothesis testing and regression which have a potential role in a manager's decision making process.

**CBE1501 Principles of Macroeconomics**

**ECTS Credits: 5**

This unit aims to introduce students to Macroeconomics by providing students with a detailed analysis of the different macroeconomic issues. Students will be able to formulate valid economic policy suggestions based on the most important macroeconomic models, through the use of scientific tools. Therefore, the student will be able to address valid and documented suggestions of economic policy which will be scientifically verified. Through the material covered the student will acquire the basic macroeconomic knowledge that will support future decisions on economic issues and will enhance her/his skills with respect to the application, analysis, synthesis and evaluation of the various macroeconomic phenomena.

**CBE1600 Information Technology for Management**

**ECTS Credits: 5**

The field of IT is growing rapidly, especially with the introduction of the Internet and e-commerce, so the organisational impacts keep increasing. The unit elaborates on the functional relevance of IT not only within the entire organisation but in inter-organisational settings as well. It teaches to students that managing information resources, new technologies, and communication networks is becoming a –or even *the*– critical success factor in the operations of many organisations, private and public, and will be essential to the survival of organisations in the digital economy.

**YEAR 2**

**CBE2002 Principles of Commercial Law**

**ECTS Credits: 5**

Commercial law being a broad topic this unit aims at providing specific and useful knowledge to business students. Emphasis will be put on the complexity of the legal framework in a global world and on specific issues of European law (competition law) and international law and their relationship with national law.

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**CBE2104 Corporate Social Responsibility and Ethics ECTS Credits: 5**

This unit will examine the inter-relationship between business and macro society. In this examination it will address the social responsibilities and the ethical considerations of business practices and policies and the resultant aggregate impact on societies. It will show that the long-term sustainability of business is directly related to business's social responsiveness. The unit will also appraise the effects of global business and the ethical lag in technological development.

**CBE2106 Operations Management ECTS Credits: 5**

Operations Management (OM) is concerned with creating the products and services upon which we all depend. Creating products and services is the very reason for any organization's existence, whether that organization is large or small, manufacturing or service, for-profit or not-for-profit. Operations management is also at the centre of so many of the changes affecting the business world – changes in customer preference, changes in supply networks brought about by internet-based technologies, and changes in the extent of environmental responsibility that we expect from companies. Promoting the creativity which will allow organizations to respond to so many changes is becoming the prime task of operations managers.

**CBE2203 Consumer Behaviour ECTS Credits: 5**

Consumer buyer behaviour patterns are complex and rapidly evolving, because consumers are human beings that their actions are irrational, emotional and difficult to predict. The unit sheds light to consumer behaviour by examining the internal and external environmental factors that affect the consumer decision-making process. Finally, the unit equips students by exposing them to theoretical tools that will enable them to comprehend consumer consumption patterns so as to devise appropriate marketing strategies that will respect consumer requirements.

**CBE2302 Financial Management ECTS Credits: 5**

Financial management is concerned with the duties of the financial manager in the business firm. Therefore the primary objective of the module is to rigorously elaborate on theoretical as well as practical aspects of the major decision areas of financial management, such as fund raising and investing. As most of the advances in financial management are based on the interaction between decision making and capital market behaviour, this unit will therefore focus on capital market theory as well.

**CBE2304 Financial Institution and Markets ECTS Credits: 5**

This unit provides an introduction to the structure and operations of the different financial institutions and markets currently existing within the evolving financial system. It explores the functions performed by a financial system, the structure and classification of the financial institutions and markets, the various instruments traded on the markets, the role of the Central Bank, the need for financial regulation and the causes/effects of financial crises. Special emphasis is given to the various financial innovations that characterise the moder.



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### YEAR 3

**CBE3109**

**Business Strategy**

**ECTS Credits: 5**

Strategy is the direction and scope of an organization over the long term, which achieves advantage for the organization, through its configuration of resources within a changing environment, to meet the needs of markets and to fulfill stakeholder expectations.

Business strategy can be conceived of in terms of strategic analysis, strategic choice, and strategy implementation. Business strategy is distinguished from day to day operational management by the complexity of influences on decisions, the fundamental organization-wide implications that strategic decisions have for the organization and their long-term implications.

**CBE3111**

**Managing Innovation**

**ECTS Credits: 5**

Innovation management is the discipline of managing processes in innovation. Innovation is the embodiment, combination or synthesis of knowledge in original, relevant, valued new products, processes or services. The focus of innovation management is to allow the organization to respond to an external or internal opportunity, and use its creative efforts to introduce new ideas, processes or products. Therefore it is essential that managers understand strategies, tools and techniques for managing innovation. This module provides an introduction to key concepts in the management of innovation. We examine how firms manage innovation processes, explore different knowledge sources for innovation and look at technology and innovation strategies. Students also learn about wider framework conditions that have a bearing on business innovation, including availability of finance for innovation, public policies and agencies promoting innovation.

**CBE3114**

**Total Quality Management**

**ECTS Credits: 5**

The unit covers particular issues related to the study of Total Quality Management (TQM). More specifically, the unit examines the key-elements of the TQM paradigm as well as some of its most commonly used practices and techniques. Awareness of TQM practices is critical in modern corporations and assists in impacting both effectiveness and efficiency.

**CBE3116**

**Contemporary Issues in the Business Environment**

**ECTS Credits: 5**

In a constantly evolving world, management must respond to challenges in the business environment. The unit aims to provide students with the latest thinking and practices to make them better prepared to confront real life management challenges and opportunities. Therefore, the unit explores and provide in-depth understanding of contemporary issues in the business environment. It will present the theoretical and practical implications of managing in a world of economic slowdown, turbulence and increasing complexity. The unit is designed to be flexible so it can reflect the latest thinking and practice. Depending on the contemporary issues at the time, the topics include:

Managing in a changing world (contemporary issues in Management): managing complexity, green transformation of business, cultural empathy and social entrepreneurship.

Marketing in turbulent times (contemporary issues in Marketing): social (non-profit) marketing, marketing in economic downturns, social media and on-line consumer behaviour.



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### **CBE3119 Human Resource Management**

**ECTS Credits: 5**

The fundamentals of Human Resource Management (HRM) involve the main principles of employment relationship, recruitment, selection, retention, training, people development, performance management, remuneration and reward systems, and other modern issues related to employee participation. In addition, HRM is related with the contested arena of employment relations. Furthermore, it is considered to be an essential element of business strategies and objectives that are associated with organisational effectiveness, whilst its implementation can significantly affect organisational performance.

Nonetheless, dynamic factors and pressures (such as: changes in the sociological and economic context/climate, the regulatory framework, implementation of employment policy etc) can seriously affect business and corporate strategy, and subsequently have an impact on the way that HRM is deployed. These factors have an impact on HRM strategies, and hence, are considered to be serious challenges for HRM managers who should focus on the organisational goals and effectiveness.

### **CBE3204 Relationship Marketing and Customer Relationship Management ECTS Credits: 5**

This unit focuses on Relationship Marketing (RM) and Customer Relationship Management (CRM) as a major strategic business function. RM & CRM is shifting managerial attention from product value to customer value by acquiring, developing and growing relationships with customers that lead to customer retention and profitability. The relationships established with all interested parties are hard to be appropriated by competition. Blending people, technology and processes CRM attempts to understand and analyse marketing processes by nurturing relationships with all interested parties encountering different and changing market challenges. This unit will address both organizational customers (B2B) and consumers (B2C).

There is a general agreement among organisations that CRM might be commercially necessary but is by no means straightforward. Organisations that invest heavily in CRM initiatives experience a high failure rate. The advantages and the pitfalls of CRM strategy initiatives as well as their implementation will be considered into depth in this course. The climax of this course will be a completion of a condensed CRM strategic plan.

### **CBE3207 Marketing of Services**

**ECTS Credits: 5**

In the last two decades the importance of the service sector of the economy has increased rapidly worldwide. Service organisations range in size from huge international corporations such as financial institutions, airlines, and hotel chains, to a vast array of locally owned and operated small businesses such as restaurants, leisure centres, theme parks and numerous business-to-business organisations. Service organisations differ in some aspects from manufacturing organisations, requiring a distinctive approach to planning and implementing marketing strategy. This unit will cover the main issues that are unique in the marketing of service organisations.

### **CBE3208 Retail Marketing**

**ECTS Credits: 5**

This unit provides a thorough examination of the retail industry and develops a specific retail-marketing framework to address the challenges of this dynamic industry. The power and influence of many major retailers now greatly exceeds that of their supplier (national brand). This change has intensified the need for a rigorous and systematic approach to retail marketing. The focus is upon the functions and challenges of retail marketing management like very large product assortment, complexities and risks of selecting new locations and constant and direct interface with customers.





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**CBE3305      Financial Accounting and Analysis with International Financial Reporting Standards**  
**ECTS Credits: 5**

Financial Accounting is the core of Accounting Science. It consists of accounting techniques and procedures for gathering and reporting on business activities that are presented in Financial Statements in accordance with accounting principles as propagated in accounting standards. Knowledge of Financial Accounting provides the holder the ability to synthesise, evaluate and interpret the information provided in the Financial Statements and the results of the ratio analysis.

**CBE3307      Portfolio and Security Analysis      ECTS Credits: 5**

The unit combines an advanced analysis of the modern theory of portfolio selection and management with a thorough examination of the current Capital Market Theories. In particular, it focuses on stock portfolio evaluation under uncertainty based on established asset pricing models, strategic portfolio management, fundamental and technical analysis and portfolio performance evaluation.

**CBE3308      International Financial Management      ECTS Credits: 5**

Multinational corporations (MNCs) around the world face complexities that arise from the different financial and political systems. MNC financial managers are faced with the challenge to form the right financial policy, by selecting the optimal combination among financial instruments and thus achieving the best long-term portfolio performance.

This unit will cover issues related to both international financial markets and the financial operations of a firm within the international environment.

The first part of the course will examine issues related to the international markets, including international portfolio diversification, the determination and the fluctuations of exchange rates, forecasting exchange rates, foreign exchange markets and currency derivative markets. The second part of the course will consider financial issues associated with the operation of a firm in the international environment. It will focus on the distinctions in MNC financing decisions relative to domestic firms and examine applications of the international factor in capital budgeting and valuation decisions.

**CBE3310      Auditing      ECTS Credits: 5**

Auditing is considered to be a highly technical area of expertise in the financial area and auditors express an opinion on the fairness of Financial Statement assertions. Students need to realise that in attempting this cohort, they need to use a combination of knowledge acquired in their business studies thus far. Students also need to realise the importance of professional ethics governing the profession, especially in the light of recent business scandals. The auditing profession is governed and the audit process is stipulated by both Statute and national and international auditing standards imposed by the relevant professional bodies. In this unit, preference will be given to International Auditing Standards (**ISA's**), where different to either those of the USA or UK standards.



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## COMPUTER SCIENCE DEPARTMENT

### YEAR 1

#### **CCP1220      Discrete Mathematical Foundations      ECTS Credits: 5**

This unit aims to introduce discrete mathematics and provides the mathematical background to first year CS students. Many areas of Computer Science rely heavily on mathematical concepts and techniques. This introductory unit covers Logic, Set Theory, Languages, Relations, Induction, Turing Machines and Graphs. It explores the relationship between mathematics and computer science units which are taught at higher levels, e.g. Logic Programming, Formal Methods, Databases, etc. The unit also aims, through practical work, to improve the analytical as well as the written communication skills of the students. At the end of this course the student should be able to comfortably deal with problems in logic, set theory and graphs, understand the relationship between mathematics and computer science, express solutions to problems in an analytical way, use mathematical background knowledge to deal easily with the computer concepts as they occur in the more advanced courses.

#### **CCP1420      Object-oriented Programming      ECTS Credits: 5**

This unit is an introductory course in object oriented programming intending to offer insides to basic analysis of problems and to algorithmic thinking. Emphasis is placed on developing strong and robust fundamentals of software development (especially programming) practices. Design practices such as incremental code writing, simplicity, code improving, error handling and pair programming are introduced and practiced in the labs.

#### **CCP1430      Introduction to Object Orientation      ECTS Credits: 5**

This unit is an introductory course in computer programming intending to offer insides to basic analysis of problems and to algorithmic thinking. Emphasis is placed on developing strong and robust fundamentals of software development (especially programming) practices. Design practices such as incremental code writing, simplicity, code improving, error handling and pair programming are introduced and practiced in the labs. The aim of this unit is to introduce computer science student to the object oriented approach to computer programming, object oriented analysis and design techniques and Java syntax for object oriented programming.

#### **CCP1440      Systems Analysis and Design      ECTS Credits: 5**

The aims of the course are to provide an overview of Information Systems in a global, information-based economy, to explore the roles of information system users, to introduce the basic techniques of systems analysis, and their application to problem analysis and software systems design, to introduce the principles of project management, to present design features common to all applications. By the end of this course, the students should be able to define the system analysis role and responsibilities in a typical organization, describe the building blocks of an information system - people, data, activities, networks and technology,



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describe systems planning, analysis, design, implementation and support, describe a phased approach to information systems development and describe cross-life activities.

**CCP1600 Information Systems and the Digital Enterprise ECTS Credits: 5**

The aim of this unit is to introduce students to the fundamentals and principles of Information Systems and their crucial role in any modern organization. Students will be presented with different types of information systems and their role in the organizational structure.

**CCP1700 Networks Architecture ECTS Credits: 5**

This unit provides an introduction to modern communication systems. It offers a comprehensive overview of the fundamental principles, theories and practices employed in computer networks and aims to develop a foundation that can be used as the basis for further study or research in the field. The unit aims to examine the structure of communication systems, to introduce fundamental computer network architectures and technologies, to present hardware components used in computer networks, to discuss the OSI model as a reference for understanding and designing a network architecture and to investigate the internet model (TCP/IP) and internetworking principles.

**CCP1900 Personal Tutorial: Academic and Transferable Skills ECTS Credits: 5**

The support tutorial class provides the means to enhance student skills and abilities not necessarily based on the context of specific units taught but which prove to be very useful throughout their studies as well as their careers afterward.

The idea is to split a cohort of students into several small groups, which are assigned a member of the academic staff, called the Tutor. Each group meets with the Tutor once every two weeks and discusses a specific topic.

The aims of the Tutorial System are:

Study Skills: to develop the students discussion, presentation and general communication skills.

Context: to broaden the students understanding of the degree subject, putting it into the context of the discipline of science as a whole.

Integration: to help students with the development of and integration between the units they are studying.

Planning: to help the students to plan their work and the academic staff to chart the students' progress.

Pastoral: to give students a personal contact and guidance with a member of the academic staff.

**YEAR 2**

**CCP2210 Artificial Intelligence Techniques ECTS Credits: 5**

Artificial Intelligence (AI) is the area of science with the ultimate goal to build intelligent machines, i.e. machines that exhibit human-like behaviour when solving complex problems. Following the classic equation that "ai= search + knowledge representation", this module provides an in-depth introduction to artificial intelligence problem solving techniques by presenting blind and heuristic state space search algorithms and knowledge representation techniques, such as logic, structured representations and rules. For each technique



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discussed special emphasis will be given on the practical issues that arise during implementation. Finally, the module provides the necessary background knowledge for the third year units.

**CCP2300      Web Programming      ECTS Credits: 5**

Students study issues related to the architecture, design and development of contemporary dynamic web applications. Topics cover technologies associated with web applications including html/css, dynamic server-side pages, dynamic client-side scripts, personalisation (cookies and sessions) and client-side techniques for interactive web applications. Other issues presented and discussed include the current and future state of the web, web 2.0, semantic web and web services.

**CCP2400      Data Structures and Algorithms\*      ECTS Credits: 5**

This course provides the programming skills and knowledge of using an appropriate data structure for a software application. Students are introduced to the concept of data abstraction and learn how to treat data structures as ADT's. The C++ class structure provides the power in building well reusable and maintainable code. The course covers the efficient usage of data structures using the class member functions. The efficient usage and the analysis of algorithms is another component examined in this course. This course provides all the programming skills that will be used in the course Object Oriented Design to implement the designed solutions. By the end of this module the students should be able: to implement the concept of data abstraction, to build the ADT for the basic data structures, to teach the major sorting and searching algorithms and their computational complexity, to apply the appropriate data structure in each application and to emphasise design issues as cohesion and coupling.

**CCP2430      Software Development      ECTS Credits: 5**

This module introduces the students the complete process of producing proper software, from the conception of the original idea to testing and maintaining the final software product. It ties together processes and concepts that the students have been introduced to in the previous semesters like capturing the requirements and specifications of a project, making proper analysis and design, implementing the different parts of the software in a coherent and proper manner, as well as testing the software, in order to create a proper and user friendly product. The connection is made with the use of a case study as a vehicle to integrate and enhance the already existing taught knowledge.

**CCP2440      Human Computer Interaction      ECTS Credits: 5**

This unit intends to introduce students to Human Computer Interactions (HCI) principles and how they can be applied in the software development process. Specifically students see what usability is and how it can be measured, how HCI can be used in all phases of the software development process, and how HCI can be used to evaluate the usability of a software system.

**CCP2630      Information Systems Applications      ECTS Credits: 5**

Information Systems (IS) as a field of academic study encompasses the concepts, principles, and processes for two broad areas of activity within organizations: (a) acquisition, deployment, management, and strategy for information technology resources and services and (b) packaged system acquisition or system development, operation, and evolution of infrastructure and systems for use in organizational processes.



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The purpose of this course is to explore the characteristics of the Information Systems and the different categories of IS, introduce the most important components of the Information Systems, and depict the differences between old and new (digital) Information Systems and their importance in the new digital economy era.

**CCP3200      Information Security      ECTS Credits: 5**

This unit introduces the field of information security as an important area of advanced computer science and provides a broad overview of information security. The course will provide a solid theoretical foundation, as well as real-world examples, for understanding computer security. Fundamental theoretical results, foundational models, and salient examples will be covered. Security in computer data, operating systems, and networks will be covered, with emphasis on applied cryptography and program security. Students can expect to leave the class with an understanding of the theoretical underpinnings for information and computer security, an appreciation of the strengths, weaknesses, and limitations of the major theories, and an understanding of the application of computer security theory to real-world systems. Students will also gain experience and insight into the application of theory to practical systems.

**YEAR 3**

**CCP3610      Enterprise and Innovation in IT      ECTS Credits: 5**

This unit aims to introduce concepts of creativity and entrepreneurial design, to introduce successful market attainment regarding its results, techniques for successful product design aligned with market needs. To introduce methods for accessing niche markets global wide and provide methods: for successful business planning and monitoring, for evaluating risks in relation to cost benefit analysis. The unit also aims to create knowledge on the protection of intellectual property rights emerged from IT projects, to introduce methods and techniques for innovation financing and to examine the management skills gained through the coursework assignments.

**CCP3900      Professional Development Seminar Series      ECTS Credits: 5**

The aim of this non-credit unit is to enhance the students' learning experience and employability skills by organising a series of seminars on practical, contemporary and emerging issues essential for students' professional career.

**CCP3500      Software Engineering\*      ECTS Credits: 5**

This course covers systematic production testing and maintenance of software products that are developed and modified under timing constraints and takes into consideration cost estimation issues. The emphasis of the course is on project management, planning and monitoring since the design and analysis part has been covered in the corresponding second level course. The objectives of this module are to conceptualise the management process of large computer systems, to understand basic concepts of software engineering, to understand the management issues involved in building large computer systems, to understand the importance and the techniques and strategies of adequate testing.



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**CCP3700**

**Network Computing\***

**ECTS Credits: 5**

This unit presents advanced as well as contemporary issues of data communications and computer networking. It provides students with the ability to utilize previous knowledge of computer networks in order to gain a thorough insight of data exchange. Important and crucial subjects related to networking are examined and new technologies and infrastructures are explored. This unit aims to underpin previous introductory knowledge, to examine advanced issues related to computer networking, to introduce the architecture and functionality of current communication technologies and to investigate the current state-of-the-art achievements and trends worldwide.

**CCP3730**

**Mobile Computing\***

**ECTS Credits: 5**

This unit will cover various aspects of mobile networking in all layers of the Internet protocol stack. The principals of designing applications for mobile devices will be provided, taking into consideration resources constraints and special human-computer-interaction issues. The unit will also present contemporary techniques employed in ad-hoc wireless networks, such as self-adaptation methods. Moreover, the cognitive networking paradigm will be introduced, along with the fundamentals of wireless sensor networks. Among the unit aims is also the study of state of the art access technologies adopted in latest generation cell networks.

**CCP3310**

**Game and Media Technology\***

**ECTS Credits: 5**

This unit provides an introduction to the underlying concepts underpinning the development of computer games and a practical experience of the software engineering issues associated with computer games development.

**CCP3320**

**Distributed and Cloud Computing\***

**ECTS Credits: 5**

This unit aims to introduce students to the fundamental concepts of distributed systems and to the contemporary field of cloud computing. The emphasis of the course is placed on Internet-Scale computing, grid computing, cloud services, virtualisation and shared data management. Related issues such as trust, reliability, cost management are going to be introduced and discussed.

\* Not decided yet Autumn or Spring

## ENGLISH STUDIES DEPARTMENT

**YEAR 1**

**CES1101**

**English Phonetics & Phonology**

**ECTS Credits: 10**

This unit familiarizes students with the fundamental notions of English phonetics and phonology. Initially, students are taught the basic concepts of phonetics, exploring mainly the mechanism of speech, the acoustic properties of speech sounds, and the articulation of English consonants and vowels. Then, they are presented with an overview of major tenets of phonology, examining as well the notions of stress, intonation and rhythm, while a number of articulatory processes are also discussed (e.g. deletion, assimilation, etc.).



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Students are introduced to the symbols of the International Phonetic Alphabet that they employ for transcription purposes, while being offered the opportunity of systematic and ongoing practice in phonetic transcription.

**CES1103      Language & Stylistics      ECTS Credits: 10**

This course provides students with a solid introduction to the field of language stylistics. The main goal of the course is two-fold: on one hand, to reinforce students' knowledge of and sensitivity to the use of the English language, and, on the other, to make students aware of how language is, or can be, exploited in order to create specific effects on the reader/listener. Students are also provided the opportunity to explore a practical hands-on approach to stylistic analysis of texts through examples given in each session, as well as through their own coursework; topics covered include lexical choice, cohesion, sentence and narrative structure, discourse analysis. The texts studied belong predominantly to the literary genre and to twentieth century, without excluding passages taken from other sources as well (e.g. newspapers and television broadcasts).

**CES1400      Introduction to Translation      ECTS Credits: 10**

Through this course students become acquainted with some major introductory concepts in the field of Translation Studies. They examine the history of this discipline, become aware of dominant Schools of translation theory, and familiarize themselves with the current trends in the field. Students are also presented with certain processes involved in translating, along with some key methodological decisions taken during this process. Moreover, some basic implications of the relationship that exists between the original and the translated text, between the author and the translator, as well as between the source and target culture are discussed.

**CES1601      Language Mastery II      ECTS Credits: 10**

This course builds on 'Language Mastery I' in the sense that students acquire the necessary academic skills to ensure a smooth progress in the programme of studies as far as their English language knowledge is concerned. Through a wide variety of different teaching and learning methods, students are systematically given the opportunity to practice and improve their overall use of academic English so that by the end of the course they are of advanced level in the specifics of academic discourse appropriate to their field of study. In other words, this unit requires from students to start formulating arguments mainly on controversial issues, thus necessitating their active participation in class.

**CES1201      Introduction to Drama      ECTS Credits: 10**

The aim of this introductory course is multifaceted. On the one hand, it assists students in developing their ability for critical writing, as well as to sharpen their argumentative skills. On the other hand, it focuses on the analysis of exemplary theatrical texts discussed in class, specially chosen to familiarize students with the performative features of drama, which distinguish it from other forms of literary or textual writing. The teaching of this course is supplemented with audiovisual material and occasional visits to the theatre, which enrich students' motivation and knowledge background for fulfilling their assignments related to the course.



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**CES1401      Methodology of Translation      ECTS Credits: 10**

Through this course students become acquainted with some major introductory concepts in the field of Translation Studies. They examine the history of this discipline, become aware of dominant Schools of

translation theory, and familiarize themselves with the basic genres and current trends in the field. Students are also presented with certain processes involved in translating, along with some key methodological decisions taken during this process. Moreover, some basic implications of the relationship that exists between the original and the translated text, between the author and the translator, as well as between the source and target culture are discussed.

**YEAR 2**

**CES2100      Second Language Acquisition      ECTS Credits: 10**

This module will introduce students to major theoretical notions and assumptions in Second Language Acquisition (SLA) a theory that investigates how language speakers acquire a second language both in adulthood and childhood. The module focuses on the SLA theories that are believed to be constrained by Universal Grammar. It provides a historical overview how SLA theories have evolved and examines influential concepts to explore how different arguments have been developed and how they have been investigated empirically. At the same time, the module offers students with hands-on training in analyzing second language learner data.

**CES2104      Pragmatics      ECTS Credits: 10**

This module introduces students to the linguistic level of 'pragmatics', or language in use, with particular concern for global contexts. In this module, they investigate how people do things with language, how they express politeness, how they use pragmatic strategies to make meaning and ensure understanding and how language is used in different contexts and domains.

**CES2102      Sociolinguistics      ECTS Credits: 10**

Sociolinguistics explores the relationship between language and society, and this module will introduce you to variationist approaches to this discipline. Variationists are concerned with measuring the relationship between language features and social identities. We will address (and challenge) questions such as: Why do working class people use more localised language features than middle class people? Do women use more linguistic innovations than men? To what extent do speakers adapt their speaking style and what causes them to do so? We will also consider how language change occurs over time and explore how language change spreads across social groups. Who are the movers and the shakers in language change?





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## Year 1 – All disciplines unit

### **Academic English Skills      ECTS Credits: 5**

This unit is addressed to all students from all disciplines. It instructs students in all aspects of academic communication including writing, reading, speaking and listening as well as offering opportunities for vocabulary enrichment and lexical and structural improvement specific to academic communication. The unit also provides space for students to consider how technology is used in the academic communication process. Using a variety of different teaching and learning methods students will be given the opportunity to practice and improve their overall use of academic English so that by the end of the course they are proficient in the

specifics of academic discourse appropriate to their field of study. This unit acts as a support mechanism to the linguistic demands expected of students in their core subjects i.e. Computer Science, Business or Psychology. The unit seeks to improve overall language use through contemporary issues that relate to the role of the individual in contemporary society, as well as those pertinent to the student's own field of study.

*\*Please note that the International Faculty reserves the right to apply changes in the unit offerings.*