

上海建桥学院课程教学进度计划表 Teaching Schedule

一、基本信息 Basic Information

课程代码 Course Code	2150006	课程名称 Course Title	iBA-计算机文化 iBA-New Perspectives on Computer Concepts
课程学分 Course Credits	3	总学时 Guided Learning Hours	48
授课教师 Tutor	俞映洲 Yingzhou Yu	教师邮箱 Email	475979686@qq.com
上课班级 Class	数媒体技术(双语)B21-4, B21-5 Bachelor in Digital Media Technology B21-4, B20-5	上课教室 Venue	计算机中心 206、第三教学大楼 104 Computer Center 206, No.3 Teaching Building 104
答疑时间 Q&A Time	周一 Monday 1-2 节		
主要教材 Teaching Materials	计算机文化·(美)琼·詹姆里奇·帕森斯·机械工业出版社·英文版第20版 New Perspectives on Computer Concepts, (USA) June Jamrich Parsons, Mechanical Industry Press, English Edition 20th Edition		
参考资料 Bibliography	New Perspectives on Computer Concepts, Introductory June Jamrich Parsons, Cengage Learning, 2018		

二、课程教学进度 Teaching Schedule

周次 Week/Times	教学内容 Topics	教学方式 Teaching Methods	作业 Assignment
1/1	Module 1 DIGITAL CONTENTS/ 第一章 数字内容 1.1 SECTION A: DIGITAL BASICS: Data Representation Basics/Representing Numbers/Representing Text/Bits and Bytes/Compression 1.1 A 部分数字基础: 数据表示基础/表示数字/表示文本/位和字节/压缩	Lecture and Discussion 授课与讨论	

	<p>Module 2 DIGITAL DEVICES 第二章 数字设备</p> <p>2.1 SECTION A: DEVICE BASICS: Computers/Circuits and Chips/Components/Maintenance</p> <p>2.1 A 部分设备基础：计算机/电路和芯片/部件/维护</p>		
1/2	<p>Module 2 DIGITAL DEVICES 第二章 数字设备</p> <p>2.2 SECTION B: DEVICE OPIONS: Enterprise Computers/Personal Computers/Niche Devices/Choosing a Digital Device</p> <p>2.2 B 部分设备选择：企业计算机/个人计算机/特定设备/选择数字设备</p> <p>2.3 SECTION C: PROCESSORS AND MEMORY: Microprocessors/How Processors Work/Performance/Random Access Memory/Read-only Memory</p> <p>2.3 C 部分处理器和内存：微处理器/处理器工作方式/性能/随机存取内存/只读内存</p>	Lecture and Discussion 授课与讨论	
2	<p>Module 2 DIGITAL DEVICES 第二章 数字设备</p> <p>2.4 SECTION D: STORAGE: Storage Basics/Magnetic Storage Technology/Optical Storage Technology/Solid State Storage Technology/Cloud Storage/Backup</p> <p>2.4 D 部分存储：存储基础知识/磁存储技术/光存储技术/固态存储技术/云存储/备份</p> <p>2.5 SECTION E: INPUT AND OUTPUT/Add-on Gadgets/Expansion Ports/Bluetooth/Device Drivers/Display Devices/Printers/Things/Autonomous Vehicles</p> <p>2.5 E 部分输入和输出：附加小工具/扩展端口/蓝牙/设备驱动程序/显示设备/打印机/物联网设备/自动驾驶车辆</p>	Lecture and Discussion 授课与讨论	Issue: Where does all the e-waste go? 问题：所有电子垃圾都到哪里去了？
3/1	<p>Module 4 THE WEB 第四章 环球网</p> <p>1.1 SECTION A: WEB BASICS: Web Overview/Evolution/Web Sites/Hypertext Links/URLs</p>	Lecture and Discussion 授课与讨论	

	<p>1.1 A 部分网络基础：网络概述/发展/网站/超文本链接/URLs</p> <p>1.2 SECTION B: BROWERS: Browser Basic/Customization/Browser Cache</p> <p>1.2 B 部分浏览器：浏览器基础/定制/浏览器缓存</p>		
3/2	<p>Module 4 THE WEB</p> <p>第四章 环球网</p> <p>1.3 SECTION C: HTML: HTML Basics/HTML Editing Tools/CSS/Dynamic Web Pages/Site Creation</p> <p>1.3 C 部分 HTML: HTML 基础/HTML 编辑工具/CSS/动态网页/网站制作</p> <p>1.4 SECTION D: HTTP: HTTP Basics/Cookies/HTTPS</p> <p>1.4 D 部分 HTTP: HTTP 基础/Cookies/HTTPS</p>	<p>Lecture and Discussion</p> <p>授课与讨论</p>	
4	<p>Module 4 THE WEB</p> <p>第四章 环球网</p> <p>1.5 SECTION E: SEARCH ENGINES: Search Engine Basics/Formulating Searches/Search Privacy/Using Web-based Source Material</p> <p>1.5 E 部分搜索引擎：搜索引擎基础知识/制定搜索/搜索隐私/使用基于 Web 的源材料</p>	<p>Lecture and Discussion</p> <p>授课与讨论</p>	<p>Issue: Who is tracking you?</p> <p>问题：谁在跟踪你？</p>
5/1	<p>Module 5 SOCIAL MEDIA</p> <p>第五章 社交媒体</p> <p>1.1 SECTION A: SOCIAL NETWORKING: The Social Media Mix/Social Networking Evolution/Social Networking Basics/Geosocial Networking/Social Network Analytics</p> <p>1.1 A 部分社交网络：社交媒体组合/社交网络发展/社交网络基础知识/地理社交网络/社交网络分析</p> <p>1.2 SECTION B: CONTENT COMMUNITIES: Evolution/Media Content Communities/Intellectual Property/Creative Commons</p> <p>1.2 B 部分内容社区：演进/媒体内容社区/知识产权/知识共享</p>	<p>Lecture and Discussion</p> <p>授课与讨论</p>	
5/2	<p>Module 5 SOCIAL MEDIA</p> <p>第五章 社交媒体</p> <p>1.3 SECTION C: BLOGS AND MORE: Blogs/Microblogs/Wikis</p> <p>1.3 C 部分博客和更多：博客/微博/维基</p>	<p>Lecture and Discussion</p> <p>授课与讨论</p>	

	<p>1.4 SECTION D: ONLINE COMMUNICATION: Communication Matrix/Email/Online Chat/Voice and Video over IP</p> <p>1.4 D 部分在线通信: 通信矩阵/电子邮件/在线聊天/IP 语音和视频</p>		
6	<p>Module 5 SOCIAL MEDIA 第五章 社交媒体</p> <p>1.5 SECTION E: SOCIAL MEDIA VALUES: Identity/Reputation/Privacy</p> <p>1.5 E 部分社交媒体价值观: 身份/声誉/隐私</p>	Lecture and Discussion 授课与讨论	Issue: When do online avatars die? 问题: 在线化身何时死亡?
7/1	<p>Module 6 SOFTWARE 第六章 软件</p> <p>1.1 SECTION A: SOFTWARE BASICS: Essentials/Distribution/Software Licenses/Fake and Pirated Software</p> <p>1.1 A 部分软件基础: 基本要素/发行/软件许可证/假冒和盗版软件</p> <p>1.2 SECTION B: OPERATING SYSTEMS: Operating System Basics/Microsoft Windows/macOS/iOS/Android/Chrome OS/Linux/Virtual Machines</p> <p>1.2 B 部分操作系统: 操作系统基础知识/Microsoft Windows/macOS/iOS/Android/Chrome OS/Linux/虚拟机</p> <p>1.3 SECTION C: APPS AND APPLICATIONS: Web Apps/Mobile Apps/Local Applications/Uninstalling Software</p> <p>1.3 C 部分应用程序和应用程序: Web 应用程序/移动应用程序/本地应用程序/卸载软件</p> <p>1.4 SECTION D: PRODUCTIVITY SOFTWARE: Office Suite Basics/Word Processing/Spreadsheets/Databases/Presentations</p> <p>1.4 D 部分生产力软件: 办公套件基础知识/文字处理/电子表格/数据库/演示文稿</p> <p>1.5 SECTION E: FILE MANAGEMENT UTILITIES: File Basics/File Management Tools/Application-based File Management/Physical File Storage</p>	Lecture and Discussion 授课与讨论	

	1.5 E 部分文件管理实用：文件基础知识/文件管理工具/基于应用程序的文件管理/物理文件存储		
7/2	<p>Module 6 SOFTWARE</p> <p>第六章 软件</p> <p>1.3 SECTION C: APPS AND APPLICATIONS: Web Apps/Mobile Apps/Local Applications/Uninstalling Software</p> <p>1.3 C 部分应用程序和应用程序：Web 应用程序/移动应用程序/本地应用程序/卸载软件</p> <p>1.4 SECTION D: PRODUCTIVITY SOFTWARE: Office Suite Basics/Word Processing/Spreadsheets/Databases/Presentations</p> <p>1.4 D 部分生产力软件：办公套件基础知识/文字处理/电子表格/数据库/演示文稿</p>	Lecture and Discussion 授课与讨论	
8	<p>Module 6 SOFTWARE</p> <p>第六章 软件</p> <p>1.5 SECTION E: FILE MANAGEMENT UTILITIES: File Basics/File Management Tools/Application-based File Management/Physical File Storage</p> <p>1.5 E 部分文件管理实用：文件基础知识/文件管理工具/基于应用程序的文件管理/物理文件存储</p>	Lecture and Discussion 授课与讨论	Issue: How serious is software piracy? 问题：软件盗版有多严重？
9/1	<p>Module 8 INFORMATION SYSTEMS</p> <p>第八章 信息系统</p> <p>1.1 SECTION A: INFORMATION SYSTEM BASICS: Enterprise Basics/Transaction Processing Systems/Management Information Systems/Decision Support Systems/Expert Systems</p> <p>1.1 A 部分信息系统基础：企业基础/事务处理系统/管理信息系统/决策支持系统/专家系统</p> <p>1.2 SECTION B: ENTERPRISE APPLICATIONS: Ecommerce/Supply Chain Management/Customer Relationship Management/Enterprise Resource Planning</p> <p>1.2 B 部分企业应用：电子商务/供应链管理/客户关系管理/企业资源规划</p> <p>1.3 SECTION C: SYSTEMS ANALYSIS: System Development Cycles/Planning Phase/Analysis Phase/Documentation Tools</p>	Lecture and Discussion 授课与讨论	

	<p>1.3 C 部分系统分析：系统开发周期/规划阶段/分析阶段/文档工具</p> <p>1.4 SECTION D: DESIGN AND IMPLEMENTAION: Design Phase/Evaluation and Selection/Application Specification/Implementation Phase/Document and Training/Conversion and Cutover/Maintenance Phase</p> <p>1.4 D 部分设计和实施：设计阶段/评估和选择/应用规范/实施阶段/文件和培训/转换和切换/维护阶段</p> <p>1.5 SECTION E: SYSTEM SECURITY: System at Risk/Data Centers/Disaster Recovery Planning/Data Breaches/Security Measures</p> <p>1.5 E 部分系统安全：系统风险/数据中心/灾难恢复规划/数据泄露/安全措施</p>		
9/2	<p>Module 7 DIGITAL SECURITY</p> <p>1.3 SECTION C: ONLINE INTRUSIONS: RATs/Ransomware/Botnet/netstat/firewall/anti-exploit software</p> <p>1.3 C 部分网络入侵：威胁 - RATs/勒索软件/机器人网络，防御 - netstat/防火墙/防入侵软件</p> <p>1.5 SECTION E: SOCIAL ENGINEERING: spam/pretexting/phishing/pharming/PUA/filtering/safe browsing/CAN-SPAM Act</p> <p>1.5 E 部分社会工程：威胁 - 垃圾邮件/上下文劫持/网络钓鱼/虚假网站/PUA 防御 - 邮件过滤/安全浏览/CAN-SPAM 法案</p>	Lecture and Discussion 授课与讨论	
10	<p>Module 8 INFORMATION SYSTEMS</p> <p>第八章 信息系统</p> <p>1.3 SECTION C: SYSTEMS ANALYSIS: System Development Cycles/Planning Phase/Analysis Phase/Documentation Tools</p> <p>1.3 C 部分系统分析：系统开发周期/规划阶段/分析阶段/文档工具</p> <p>1.4 SECTION D: DESIGN AND IMPLEMENTAION: Design Phase/Evaluation and Selection/Application Specification/Implementation Phase/Document and Training/Conversion and Cutover/Maintenance Phase</p> <p>1.4 D 部分设计和实施：设计阶段/评估和选择/应用规范/实施阶段/文件和培训/转换和切换/维护阶段</p>	Lecture and Discussion 授课与讨论	

11/1	<p>Module 9 DATABASES 第九章 数据库</p> <p>1.1 SECTION A: DATABASE BASICS: Operational and Analytical Databases/Database Models 1.1 A 部分数据库基础：操作型和分析型数据库/数据库模型</p> <p>1.2 SECTION B: DATABASE TOOLS: Database Tool Basics/Dedicated Applications/Word Processor Data Tools/Spreadsheet Data Tools/Database Management Systems 1.2 B 部分数据库工具：数据库工具基础/专用应用程序/字处理器数据工具/电子表格数据工具/数据库管理系统</p>	Lecture and Discussion 授课与讨论	
11/2	<p>Module 9 DATABASES 第九章 数据库</p> <p>1.3 SECTION C: DATABASE DESIGN: Defining Fields/Data Types/Normalization/Sorting and Indexing/Designing the interface/Designing report templates 1.3 C 部分数据库设计：定义字段/数据类型/规范化/排序和索引/设计接口/设计报告模板</p> <p>1.4 SECTION D: SQL: SQL Basics/Adding Records/Searching for Information/Updating Fields/Joining Tables 1.4 D 部分 SQL：SQL 基础知识/添加记录/搜索信息/更新字段/连接表</p>	Lecture and Discussion 授课与讨论	
12	<p>Module 9 DATABASES 第九章 数据库</p> <p>1.5 SECTION E: BIG DATA: Big Data Basics/Big Data Analytics/NoSQL 1.5 E 部分大数据：大数据基础/大数据分析/NoSQL</p>	Lecture and Discussion 授课与讨论	
13/1	<p>Module 10 PROGRAMMING 第十章 编程</p> <p>1.1 SECTION A: PROGRAM DEVELOPMENT: Programming Basics/Program Planning/Writing Programs/Program Testing and Documentation 1.1 A 部分程序开发：编程基础/程序规划/编写程序/程序测试和文档</p>	Lecture and Discussion 授课与讨论	

	<p>1.2 SECTION B: PROGRAMING TOOLS: Language Evolution/Compilers and Interpreters/Paradigms and Languages/Toolsets</p> <p>1.2 B 部分编程工具：语言演进/编译器和解释器/范例如语言/工具集</p>		
13/2	<p>Module 10 PROGRAMMING</p> <p>第十章 编程</p> <p>1.3 SECTION C: PROCEDURAL PROGRAMMING: Algorithms/Pseudocodes and Flowcharts/Flow Control/Procedural Applications</p> <p>1.3 C 部分过程式编程：算法/伪代码和流程图/流程控制/程序应用</p> <p>1.4 SECTION D: OBJECT-ORIENTED PROGRAMS: Objects and Classes/Inheritance/Methods and Messages/OO Program Structure/OO applications</p> <p>1.4 D 部分面向对象程序：对象和类/继承/方法和消息/OO 程序结构/OO 应用程序</p>	Lecture and Discussion 授课与讨论	
14	<p>Module 10 PROGRAMMING</p> <p>第十章 编程</p> <p>1.5 SECTION E: DECLARATIVE PROGRAMMING: The Declarative Paradigm/Prolong Facts/Prolong Rules/Interactive Input/Declarative Logic/Declarative Applications</p> <p>1.5 E 部分声明性编程：声明性范例/延长事实/延长规则/交互式输入/声明性逻辑/声明性应用程序</p>	Lecture and Discussion 授课与讨论	
15/1	<p>Team project presentation and exchange week. The teaching task of this week is to present the team project and explain and answer relevant questions.</p> <p>团队项目演示与交流周。本周教学任务为，各小组进行团队项目演示，并对相关的问题进行说明与解答。</p>	Lecture Q&A: the questions for the report of team work 授课，问答，主要针对团队报告的释疑	

15/2	<p>Team project presentation and exchange week. The teaching task of this week is to present the team project and explain and answer relevant questions.</p> <p>团队项目演示与交流周。本周教学任务为，各小组进行团队项目演示，并对相关的问题进行说明与解答。</p>	<p>Lecture</p> <p>Q&A: the questions for the report of team work</p> <p>授课，问答，主要针对团队报告的释疑</p>	
16	<p>Review week, this week's teaching task is to lead students achieving a comprehensive and systematic review. Effectively check the omissions and make up for the deficiencies, in order to help students consistently understand all the knowledge points explained in this semester.</p> <p>复习周，本周的教学任务是带领学生全面、系统的复习。有效地检漏补缺，帮助学生理解本学期所讲解的所有知识点。</p>	<p>Lecture</p> <p>Q&A: the questions for the report of team work</p> <p>授课，问答，主要针对团队报告的释疑</p>	<p>Review all Chapters and A Report & Case Study</p> <p>章节复习及报告与案例学习</p>

三、评价方式以及在总评成绩中的比例 **Assessment Index & Weightage**

总评构成 (4X) Grading Computation	评价方式 Assessment Index	占比 (%) Weightage (%)
X1	<p>期末考核：个人项目报告 (2000 words)</p> <p>Final Personal Report (2000 words)</p>	40%
X2	<p>过程考核：个人作业 (800 words)</p> <p>Personal Work (800 words)</p>	20%
X3	<p>过程考核：小组团队作业 (1200 words)</p>	30%

	Team Work (1200 words)	
X4	过程考核：课堂表现 Class Performance	10%

任课教师 **Tutor Signature:** 俞映洲 Yingzhou Yu

系主任审核 **Program Leader Signature:**

日期 **Date:** 2023. 08. 27