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, B21-5Bachelor in Digital Media TechnologyB21-4, B20-5 | 上课教室Venue | 计算机中心206、第三教学大楼104Computer 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 |

1. **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 DIGITIAL CONTENTS/第一章 数字内容1.1 SECTION A: DIGITAL BASICS: Data Representation Basics/Representing Numbers/Representing Text/Bits and Bytes/Compression1.1 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Module 2 DIGITIAL DEVICES第二章 数字设备2.1 SECTION A: DEVICE BASICS: Computers/Circuits and Chips/Components/Maintenance2.1 A部分设备基础：计算机/电路和芯片/部件/维护 | Lecture and Discussion授课与讨论 |  |
| 1/2 | Module 2 DIGITIAL DEVICES第二章 数字设备2.2 SECTION B: DEVICE OPIONS: Enterprise Computers/Personal Computers/Niche Devices/Choosing a Digital Device2.2 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2.3 SECTION C: PROCESSORS AND MEMORY: Microprocessors/How Processors Work/Performance/Random Access Memory/Read-only Memory2.3 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 | Lecture and Discussion授课与讨论 |  |
| 2 | Module 2 DIGITIAL DEVICES第二章 数字设备2.4 SECTION D: STORAGE: Storage Basics/Magnetic Storage Technology/Optical Storage Technology/Solid State Storage Technology/Cloud Storage/Backup2.4 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2.5 SECTION E: INPUT AND OUTPUT/Add-on Gadgets/Expansion Ports/Bluetooth/Device Drivers/Display Devices/Printers/Things/Autonomous Vehicles2.5 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 | 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 | Module 4 THE WEB第四章 环球网1.1 SECTION A: WEB BASICS: Web Overview/Evolution/Web Sites/Hypertext Links/URLs1.1 A部分网络基础：网络概述/发展/网站/超文本链接/URLs1.2 SECTION B: BROWERS: Browser Basic/Customization/Browser Cache1.2 B部分浏览器：浏览器基础/定制/浏览器缓存 | Lecture and Discussion授课与讨论 |  |
| 3/2 | Module 4 THE WEB第四章 环球网1. 3 SECTION C: HTML: HTML Basics/HTML Editing Tools/CSS/Dynamic Web Pages/Site Creation1.3 C部分HTML: HMTL基础/HTML编辑工具/CSS/动态网页/网站制作1.4 SECTION D: HTTP: HTTP Basics/Cookies/HTTPS1.4 D部分HTTP: HTTP基础/Cookies/HTTPS | Lecture and Discussion授课与讨论 |  |
| 4 | Module 4 THE WEB第四章 环球网1.5 SECTION E: SEARCH ENGINS: Search Engine Basics/Formulating Searches/Search Privacy/Using Web-based Source Material1.5 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 | Lecture and Discussion授课与讨论 | Issue: Who is tracking you? 问题：谁在跟踪你？ |
| 5/1 | Module 5 SOCIAL MEDIA第五章 社交媒体1.1 SECTION A: SOCIAL NETWORKING: The Social Media Mix/Social Networking Evolution/Social Networking Basics/Geosocial Networking/Social Network Analytics1.1 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1.2 SECTION B: CONTENT COMMUNITIES: Evolution/Media Content Communities/Intellectual Property/Creative Commons1.2 B部分内容社区：演进/媒体内容社区/知识产权/知识共享 | Lecture and Discussion授课与讨论 |  |
| 5/2 | Module 5 SOCIAL MEDIA第五章 社交媒体1.3 SECTION C: BLOGS AND MORE: Blogs/Microblogs/Wikis1.3 C部分博客和更多：博客/微博/维基1.4 SECTION D: ONLINE COMMUNICATION: Communication Matrix/Email/Online Chat/Voice and Video over IP1.4 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 | Lecture and Discussion授课与讨论 |  |
| 6 | Module 5 SOCIAL MEDIA第五章 社交媒体1.5 SECTION E: SOCIAL MEDIA VALUES: Identity/Reputation/Privacy1.5 E部分社交媒体价值观：身份/声誉/隐私 | 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 | Module 6 SOFTWARE第六章 软件1.1 SECTION A: SOFTWARE BASICS: Essentials/Distribution/Software Licenses/Fake and Pirated Software1.1 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1.2 SECTION B: OPERATING SYSTEMS: Operating System Basics/Microsoft Windows/macOS/iOS/Android/Chrome OS/Linux/Virtual Machines1.2 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1.3 SECTION C: APPS AND APPLICATIONS: Web Apps/Mobile Apps/Local Applications/Uninstalling Software1.3 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1.4 SECTION D: PRODUCTIVITY SOFTWARE: Office Suite Basics/Word Processing/Spreadsheets/Databases/Presentations1.4 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1.5 SECTION E: FILE MANAGEMENT UTILITIES: File Basics/File Management Tools/Application-based File Management/Physical File Storage1.5 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 | Lecture and Discussion授课与讨论 |  |
| 7/2 | Module 6 SOFTWARE第六章 软件1.3 SECTION C: APPS AND APPLICATIONS: Web Apps/Mobile Apps/Local Applications/Uninstalling Software1.3 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1.4 SECTION D: PRODUCTIVITY SOFTWARE: Office Suite Basics/Word Processing/Spreadsheets/Databases/Presentations1.4 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 | Lecture and Discussion授课与讨论 |  |
| 8 | Module 6 SOFTWARE第六章 软件1.5 SECTION E: FILE MANAGEMENT UTILITIES: File Basics/File Management Tools/Application-based File Management/Physical File Storage1.5 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 | 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 | Module 8 INFORMATION SYSTEMS 第八章 信息系统1.1 SECTION A: INFORMATION SYSTEM BASICS: Enterprise Basics/Transaction Processing Systems/Management Information Systems/Decision Support Systems/Expert Systems1.1 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1.2 SECTION B: ENTERPRISE APPLCATIONS: Ecommerce/Supply Chain Management/Customer Relationship Management/Enterprise Resource Planning1.2 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1.3 SECTION C: SYSTEMS ANALYSIS: System Development Cycles/Planning Phase/Analysis Phase/Documentation Tools1.3 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1.4 SECTION D: DESIGN AND IMPLEMENTAION: Design Phase/Evaluation and Selection/Application Specification/Implementation Phase/Document and Training/Conversion and Cutover/Maintenance Phase1.4 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1.5 SECTION E: SYSTEM SECURITY: System at Risk/Data Centers/Disaster Recovery Planning/Data Breaches/Security Measures1.5 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 | Lecture and Discussion授课与讨论 |  |
| 9/2 | Module 7 DIGITAL SECURITY1.3 SECTION C: ONLINE INTRUSIONS: RATs/Ransomware/Botnet/netstat/firewall/anti-exploit software1.3 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1.5 SECTION E: SOCIAL ENGINEERING: spam/pretexting/phishing/pharming/PUA/filtering/safe browsing/CAN-SPAM Act1.5 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 | Lecture and Discussion授课与讨论 |  |
| 10 | Module 8 INFORMATION SYSTEMS 第八章 信息系统1.3 SECTION C: SYSTEMS ANALYSIS: System Development Cycles/Planning Phase/Analysis Phase/Documentation Tools1.3 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1.4 SECTION D: DESIGN AND IMPLEMENTAION: Design Phase/Evaluation and Selection/Application Specification/Implementation Phase/Document and Training/Conversion and Cutover/Maintenance Phase1.4 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 | Lecture and Discussion授课与讨论 |  |
| 11/1 | Module 9 DATABASES第九章 数据库1.1 SECTION A: DATABASE BASICS: Operational and Analytical Databases/Database Models1.1 A部分数据库基础：操作型和分析型数据库/数据库模型1.2 SECTION B: DATABASE TOOLS: Database Tool Basics/Dedicated Applications/Word Processor Data Tools/Spreadsheet Data Tools/Database Management Systems1.2 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 | Lecture and Discussion授课与讨论 |  |
| 11/2 | Module 9 DATABASES第九章 数据库1.3 SECTION C: DATABASE DESIGN: Defining Fields/Data Types/Normalization/Sorting and Indexing/Designing the interface/Designing report templates1.3 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1.4 SECTION D: SQL: SQL Basics/Adding Records/Searching for Information/Updating Fields/Joining Tables1.4 D部分SQL：SQL基础知识/添加记录/搜索信息/更新字段/连接表 | Lecture and Discussion授课与讨论 |  |
| 12 | Module 9 DATABASES第九章 数据库1.5 SECTION E: BIG DATA: Big Data Basics/Big Data Analytics/NoSQL1.5 E部分大数据：大数据基础/大数据分析/NoSQL | Lecture and Discussion授课与讨论 |  |
| 13/1 | Module 10 PROGRAMMING第十章 编程1.1 SECTION A: PROGRAM DEVELOPMENT: Programming Basics/Program Planning/Writing Programs/Program Testing and Documentation1.1 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1.2 SECTION B: PROGRAMING TOOLS: Language Evolution/Compilers and Interpreters/Paradigms and Languages/Toolsets1.2 B部分编程工具：语言演进/编译器和解释器/范例和语言/工具集 | Lecture and Discussion授课与讨论 |  |
| 13/2 | Module 10 PROGRAMMING第十章 编程1.3 SECTION C: PROCEDURAL PROGRAMMING: Algorithms/Pseudocodes and Flowcharts/Flow Control/Procedural Applications1.3 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1.4 SECTION D: OBJECT-ORIENTED PROGRAMS: Objects and Classes/Inheritance/Methods and Messages/OO Program Structure/OO applications1.4 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 | Lecture and Discussion授课与讨论 |  |
| 14 | Module 10 PROGRAMMING第十章 编程1.5 SECTION E: DECLARATIVE PROGRAMMING: The Declarative Paradigm/Prolong Facts/Prolong Rules/Interactive Input/Declarative Logic/Declarative Applications1.5 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 | Lecture and Discussion授课与讨论 |  |
| 15/1 | Team project presentation and exchange week. The teaching task of this week is to present the team project and explain and answer relevant questions.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。 | LectureQ&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 | Team project presentation and exchange week. The teaching task of this week is to present the team project and explain and answer relevant questions.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。 | LectureQ&A: the questions for the report of team work授课，问答，主要针对团队报告的释疑 |  |
| 16 | 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.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。 | LectureQ&A: the questions for the report of team work授课，问答，主要针对团队报告的释疑 | Review all Chapters and A Report & Case Study章节复习及报告与案例学习 |

**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 | 期末考核：个人项目报告（2000 words）Final Personal Report（2000 words） | 40% |
| X2 | 过程考核：个人作业（800 words）Personal Work（800 words） | 20% |
| X3 | 过程考核：小组团队作业（1200 words）Team Work（1200 words） | 30% |
| 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