

ABET COMPUTER SCIENCE ONLINE

ABET COMPUTER SCIENCE ONLINE: NAVIGATING THE ACCREDITATION LANDSCAPE FOR DIGITAL LEARNING

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PUBLISHER: HIGHER EDUCATION TODAY, A LEADING PUBLISHER OF SCHOLARLY ARTICLES AND RESOURCES FOR HIGHER EDUCATION INSTITUTIONS, SPECIALIZING IN ACCREDITATION AND ONLINE LEARNING BEST PRACTICES.

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KEYWORD: ABET COMPUTER SCIENCE ONLINE

INTRODUCTION:

THE DEMAND FOR SKILLED COMPUTER SCIENTISTS CONTINUES TO SURGE, DRIVING THE GROWTH OF ONLINE COMPUTER SCIENCE PROGRAMS. HOWEVER, THE QUALITY AND LEGITIMACY OF THESE PROGRAMS ARE CRUCIAL CONSIDERATIONS FOR PROSPECTIVE STUDENTS AND EMPLOYERS. ABET (ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY) ACCREDITATION PROVIDES A GOLD STANDARD FOR ASSURANCE, BUT NAVIGATING THE COMPLEXITIES OF ABET COMPUTER SCIENCE ONLINE ACCREDITATION REQUIRES A THOROUGH UNDERSTANDING OF THE CRITERIA AND METHODOLOGIES INVOLVED. THIS ARTICLE WILL EXPLORE THE VARIOUS APPROACHES INSTITUTIONS EMPLOY TO MEET ABET'S RIGOROUS STANDARDS IN THE ONLINE ENVIRONMENT, ADDRESSING THE UNIQUE CHALLENGES AND OPPORTUNITIES PRESENTED BY DIGITAL LEARNING.

H1: UNDERSTANDING ABET ACCREDITATION FOR COMPUTER SCIENCE PROGRAMS

ABET ACCREDITATION SIGNIFIES THAT A PROGRAM MEETS STRINGENT QUALITY STANDARDS IN TERMS OF CURRICULUM, FACULTY QUALIFICATIONS, RESOURCES, AND STUDENT OUTCOMES. FOR COMPUTER SCIENCE PROGRAMS, THIS TRANSLATES TO A ROBUST CURRICULUM COVERING CORE COMPUTER SCIENCE CONCEPTS, HANDS-ON EXPERIENCE, AND THE ABILITY TO APPLY THEORETICAL KNOWLEDGE TO REAL-WORLD PROBLEMS. CRUCIALLY, ABET COMPUTER SCIENCE ONLINE PROGRAMS MUST DEMONSTRATE THAT THEY ACHIEVE THESE SAME BENCHMARKS WITHIN THE CONSTRAINTS AND OPPORTUNITIES AFFORDED BY THE ONLINE LEARNING ENVIRONMENT.

H2: METHODOLOGIES FOR MEETING ABET STANDARDS IN ONLINE COMPUTER SCIENCE

SEVERAL KEY METHODOLOGIES ARE EMPLOYED BY INSTITUTIONS OFFERING ABET COMPUTER SCIENCE ONLINE PROGRAMS TO ACHIEVE ACCREDITATION:

ASYNCHRONOUS AND SYNCHRONOUS LEARNING INTEGRATION: A BLENDED APPROACH LEVERAGING BOTH ASYNCHRONOUS (SELF-PACED) AND SYNCHRONOUS (REAL-TIME) LEARNING ACTIVITIES IS COMMON. ASYNCHRONOUS MODULES PROVIDE FLEXIBILITY, WHILE SYNCHRONOUS SESSIONS (LIVE LECTURES, LABS, OR GROUP PROJECTS) FOSTER INTERACTION AND COLLABORATION. THIS BALANCE IS KEY FOR MAINTAINING THE RIGOR EXPECTED BY ABET.

RIGOROUS ASSESSMENT STRATEGIES: ONLINE PROGRAMS MUST DEMONSTRATE ROBUST ASSESSMENT METHODS THAT ACCURATELY GAUGE STUDENT LEARNING. THIS INCLUDES A VARIETY OF ASSESSMENT TECHNIQUES, SUCH AS ONLINE QUIZZES, PROGRAMMING ASSIGNMENTS, PROJECTS, EXAMS, AND POTENTIALLY PROCTORED EXAMS TO MAINTAIN ACADEMIC INTEGRITY. THE DESIGN OF THESE ASSESSMENTS NEEDS TO ALIGN WITH LEARNING OBJECTIVES AND DEMONSTRABLY MEASURE STUDENT MASTERY

OF CONCEPTS.

VIRTUAL LABS AND SIMULATION TOOLS: THE LACK OF PHYSICAL LABS PRESENTS A SIGNIFICANT CHALLENGE FOR ABET COMPUTER SCIENCE ONLINE PROGRAMS. OVERCOMING THIS REQUIRES IMPLEMENTING ROBUST VIRTUAL LABS AND SIMULATION TOOLS THAT REPLICATE THE HANDS-ON EXPERIENCE OF TRADITIONAL LABS. THESE TOOLS SHOULD PROVIDE REALISTIC SCENARIOS AND ALLOW STUDENTS TO DEVELOP AND TEST THEIR SKILLS IN A SAFE AND CONTROLLED ENVIRONMENT.

EFFECTIVE FACULTY SUPPORT AND INTERACTION: ENGAGING FACULTY IS CRUCIAL IN THE ONLINE SETTING. INSTITUTIONS MUST IMPLEMENT STRATEGIES FOR FOSTERING INTERACTION BETWEEN INSTRUCTORS AND STUDENTS, SUCH AS VIRTUAL OFFICE HOURS, ONLINE DISCUSSION FORUMS, AND REGULAR FEEDBACK ON ASSIGNMENTS. FACULTY QUALIFICATIONS ARE RIGOROUSLY SCRUTINIZED BY ABET, AND ONLINE PROGRAMS MUST DEMONSTRATE THAT THEIR INSTRUCTORS POSSESS THE NECESSARY EXPERTISE AND ARE ADEPT AT TEACHING IN A DIGITAL ENVIRONMENT.

TECHNOLOGICAL INFRASTRUCTURE AND ACCESSIBILITY: A RELIABLE AND ROBUST TECHNOLOGICAL INFRASTRUCTURE IS ESSENTIAL. THE LEARNING MANAGEMENT SYSTEM (LMS) MUST BE USER-FRIENDLY, ACCESSIBLE TO ALL STUDENTS, AND CAPABLE OF SUPPORTING DIVERSE LEARNING STYLES AND NEEDS. INSTITUTIONS MUST ALSO ENSURE ACCESSIBILITY FOR STUDENTS WITH DISABILITIES, ADHERING TO ADA GUIDELINES.

STUDENT SUPPORT SERVICES: ROBUST STUDENT SUPPORT SERVICES ARE CRITICAL FOR SUCCESS IN ONLINE LEARNING. THIS INCLUDES ACADEMIC ADVISING, CAREER SERVICES, TECHNICAL SUPPORT, AND MENTAL HEALTH RESOURCES. ABET COMPUTER SCIENCE ONLINE PROGRAMS MUST DEMONSTRATE THAT THEY PROVIDE COMPREHENSIVE SUPPORT TO ENSURE STUDENT SUCCESS AND RETENTION.

H3: CHALLENGES AND OPPORTUNITIES OF ABET COMPUTER SCIENCE ONLINE

WHILE OFFERING SEVERAL ADVANTAGES LIKE INCREASED ACCESSIBILITY AND FLEXIBILITY, ABET COMPUTER SCIENCE ONLINE PROGRAMS FACE UNIQUE CHALLENGES:

MAINTAINING ACADEMIC INTEGRITY: PREVENTING PLAGIARISM AND CHEATING IN ONLINE ASSESSMENTS REQUIRES CAREFUL PLANNING AND IMPLEMENTATION OF MEASURES SUCH AS PROCTORED EXAMS, PLAGIARISM DETECTION SOFTWARE, AND ROBUST ASSIGNMENT DESIGN.

ENSURING EFFECTIVE COMMUNICATION AND COLLABORATION: FOSTERING EFFECTIVE COMMUNICATION AND COLLABORATION AMONG STUDENTS AND FACULTY IN A VIRTUAL ENVIRONMENT NECESSITATES THOUGHTFUL USE OF TECHNOLOGY AND PEDAGOGICAL STRATEGIES.

ADDRESSING THE DIGITAL DIVIDE: ENSURING EQUITABLE ACCESS TO TECHNOLOGY AND RELIABLE INTERNET CONNECTIVITY FOR ALL STUDENTS IS PARAMOUNT FOR ADDRESSING THE DIGITAL DIVIDE AND ENSURING EQUAL OPPORTUNITIES FOR SUCCESS.

H4: CASE STUDIES OF SUCCESSFUL ABET COMPUTER SCIENCE ONLINE PROGRAMS

SEVERAL UNIVERSITIES HAVE SUCCESSFULLY ACHIEVED ABET ACCREDITATION FOR THEIR ONLINE COMPUTER SCIENCE PROGRAMS BY IMPLEMENTING THE METHODOLOGIES DISCUSSED ABOVE. THESE INSTITUTIONS PROVIDE EXCELLENT EXAMPLES OF HOW TO NAVIGATE THE ACCREDITATION PROCESS AND DELIVER HIGH-QUALITY ONLINE EDUCATION. ANALYZING THEIR APPROACHES OFFERS VALUABLE INSIGHTS FOR OTHER INSTITUTIONS AIMING FOR ABET ACCREDITATION.

H5: FUTURE TRENDS IN ABET COMPUTER SCIENCE ONLINE

FUTURE TRENDS IN ABET COMPUTER SCIENCE ONLINE EDUCATION INCLUDE:

INCREASED USE OF AI AND PERSONALIZED LEARNING: LEVERAGING AI TO PERSONALIZE LEARNING EXPERIENCES AND ADAPT TO INDIVIDUAL STUDENT NEEDS WILL BECOME INCREASINGLY IMPORTANT.

EXPANSION OF VIRTUAL AND AUGMENTED REALITY TECHNOLOGIES: IMMERSIVE TECHNOLOGIES LIKE VR AND AR WILL BE UTILIZED TO CREATE MORE ENGAGING AND INTERACTIVE LEARNING EXPERIENCES.

FOCUS ON DEVELOPING SOFT SKILLS: IN ADDITION TO TECHNICAL SKILLS, ABET COMPUTER SCIENCE ONLINE PROGRAMS WILL EMPHASIZE THE DEVELOPMENT OF CRUCIAL SOFT SKILLS SUCH AS COMMUNICATION, TEAMWORK, AND PROBLEM-SOLVING.

CONCLUSION:

ACHIEVING ABET ACCREDITATION FOR ABET COMPUTER SCIENCE ONLINE PROGRAMS REQUIRES A COMPREHENSIVE AND STRATEGIC APPROACH ENCOMPASSING RIGOROUS CURRICULUM DESIGN, ROBUST ASSESSMENT METHODS, EFFECTIVE FACULTY SUPPORT, AND A ROBUST TECHNOLOGICAL INFRASTRUCTURE. BY CAREFULLY CONSIDERING THE METHODOLOGIES AND CHALLENGES OUTLINED IN THIS ARTICLE, INSTITUTIONS CAN SUCCESSFULLY NAVIGATE THE ACCREDITATION PROCESS AND OFFER HIGH-QUALITY ONLINE COMPUTER SCIENCE PROGRAMS THAT MEET THE DEMANDS OF THE INDUSTRY AND PREPARE STUDENTS FOR SUCCESSFUL CAREERS.

FAQs:

1. WHAT ARE THE KEY DIFFERENCES BETWEEN AN ABET-ACCREDITED ONLINE AND ON-CAMPUS COMPUTER SCIENCE PROGRAM? THE CORE CURRICULUM AND LEARNING OUTCOMES ARE SIMILAR, BUT THE DELIVERY METHOD DIFFERS. ONLINE PROGRAMS MUST DEMONSTRATE EQUIVALENT LEARNING OUTCOMES USING DIGITAL TOOLS AND METHODOLOGIES.
1. HOW LONG DOES IT TAKE TO GET ABET ACCREDITATION FOR AN ONLINE COMPUTER SCIENCE PROGRAM? THE PROCESS TYPICALLY TAKES SEVERAL YEARS AND INVOLVES RIGOROUS SELF-STUDY, EVALUATION, AND SITE VISITS.
1. WHAT ARE THE COSTS ASSOCIATED WITH SEEKING ABET ACCREDITATION FOR AN ONLINE COMPUTER SCIENCE PROGRAM? COSTS INCLUDE SELF-STUDY PREPARATION, APPLICATION FEES, AND POTENTIAL CONSULTANT FEES.
1. WHAT ARE THE BENEFITS OF AN ABET-ACCREDITED ONLINE COMPUTER SCIENCE DEGREE? ABET ACCREDITATION ENHANCES THE CREDIBILITY OF THE DEGREE, IMPROVES EMPLOYABILITY, AND ASSURES EMPLOYERS OF THE QUALITY OF EDUCATION RECEIVED.
1. HOW CAN I FIND A LIST OF ABET-ACCREDITED ONLINE COMPUTER SCIENCE PROGRAMS? THE ABET WEBSITE PROVIDES A SEARCHABLE DATABASE OF ACCREDITED PROGRAMS.
1. WHAT ROLE DOES THE FACULTY PLAY IN ACHIEVING ABET ACCREDITATION FOR AN ONLINE COMPUTER SCIENCE PROGRAM? FACULTY QUALIFICATIONS, EXPERIENCE IN ONLINE TEACHING, AND ENGAGEMENT WITH STUDENTS ARE CRITICALLY IMPORTANT.
1. HOW IMPORTANT IS TECHNOLOGY INFRASTRUCTURE FOR ABET ACCREDITATION OF AN ONLINE COMPUTER SCIENCE PROGRAM? A ROBUST, RELIABLE, AND ACCESSIBLE TECHNOLOGICAL INFRASTRUCTURE IS ESSENTIAL FOR SUCCESSFUL ONLINE LEARNING AND ACCREDITATION.

1. WHAT ARE THE SPECIFIC CRITERIA FOR ASSESSMENT IN AN ABET-ACCREDITED ONLINE COMPUTER SCIENCE PROGRAM? ABET REQUIRES A VARIETY OF ASSESSMENT METHODS THAT ACCURATELY REFLECT STUDENT LEARNING OF THE CURRICULUM'S OBJECTIVES. THIS INCLUDES A MIX OF FORMATIVE AND SUMMATIVE ASSESSMENTS.
1. WHAT HAPPENS IF AN ABET-ACCREDITED ONLINE COMPUTER SCIENCE PROGRAM FAILS TO MEET THE STANDARDS? THE PROGRAM MAY FACE PROBATION OR LOSS OF ACCREDITATION, IMPACTING ITS REPUTATION AND STUDENT OUTCOMES.

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 **abet computer science online:** *Data Science for Undergraduates* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Computer Science and Telecommunications Board, Committee on Envisioning the Data Science Discipline: The Undergraduate Perspective, 2018-11-11 Data science is emerging as a field that is revolutionizing science and industries alike. Work across nearly all domains is becoming more data driven, affecting both the jobs that are available and the skills that are required. As more data and ways of analyzing them become available, more aspects of the economy, society, and daily life will become dependent on data. It is imperative that educators, administrators, and students begin today to consider how to best prepare for and keep pace with this data-driven era of tomorrow. Undergraduate teaching, in particular, offers a critical link in offering more data science exposure to students and expanding the supply of data science talent. Data Science for Undergraduates: Opportunities and Options offers a vision for the emerging discipline of data science at the undergraduate level. This report outlines some considerations and approaches for academic institutions and others in the broader data science communities to help guide the ongoing transformation of this field.

abet computer science online: *Intelligent Computing* Kohei Arai, Supriya Kapoor, Rahul Bhatia, 2020-07-03 This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings. Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

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abet computer science online: *Technical Writing, Presentational Skills, and Online Communication: Professional Tools and Insights* Greenlaw, Raymond, 2012-03-31 This book is

a collection of work to assist any professional who needs to deal with ethical issues, write up a technical project, give or develop a presentation, or write material for an online audience--Provided by publisher.

abet computer science online: INTRODUCTION TO ARTIFICIAL INTELLIGENCE, Second Edition AKERKAR, RAJENDRA, 2014-07-18 This comprehensive text acquaints the readers with the important aspects of artificial intelligence (AI) and intelligent systems and guides them towards a better understanding of the subject. The text begins with a brief introduction to artificial intelligence, including application areas, its history and future, and programming. It then deals with symbolic logic, knowledge acquisition, representation and reasoning. The text also lucidly explains AI technologies such as computer vision, natural language processing, pattern recognition and speech recognition. Topics such as expert systems, neural networks, constraint programming and case-based reasoning are also discussed in the book. In the Second Edition, the contents and presentation have been improved thoroughly and in addition six new chapters providing a simulating and inspiring synthesis of new artificial intelligence and an appendix on AI tools have been introduced. The treatment throughout the book is primarily tailored to the curriculum needs of B.E./B.Tech. students in Computer Science and Engineering, B.Sc. (Hons.) and M.Sc. students in Computer Science, and MCA students. The book is also useful for computer professionals interested in exploring the field of artificial intelligence. Key Features • Exposes the readers to real-world applications of AI. • Concepts are duly supported by examples and cases. • Provides appendices on PROLOG, LISP and AI Tools. • Incorporates most recommendations of the Curriculum Committee on Computer Science/Engineering for AI and Intelligent Systems. • Exercises provided will help readers apply what they have learned.

abet computer science online: Introduction to Engineering Quamrul H. Mazumder, 2018-09-03 Developed for the Ultimate Introductory Engineering Course Introduction to Engineering: An Assessment and Problem-Solving Approach incorporates experiential, and problem- and activity-based instruction to engage students and empower them in their own learning. This book compiles the requirements of ABET, (the organization that accredits most US engineering, computer science, and technology programs and equivalency evaluations to international engineering programs) and integrates the educational practices of the Association of American Colleges and Universities (AAC&U). The book provides learning objectives aligned with ABET learning outcomes and AAC&U high-impact educational practices. It also identifies methods for overcoming institutional barriers and challenges to implementing assessment initiatives. The book begins with an overview of the assessment theory, presents examples of real-world applications, and includes key assessment resources throughout. In addition, the book covers six basic themes: Use of assessment to improve student learning and educational programs at both undergraduate and graduate levels Understanding and applying ABET criteria to accomplish differing program and institutional missions Illustration of evaluation/assessment activities that can assist faculty in improving undergraduate and graduate courses and programs Description of tools and methods that have been demonstrated to improve the quality of degree programs and maintain accreditation Using high-impact educational practices to maximize student learning Identification of methods for overcoming institutional barriers and challenges to implementing assessment initiative A practical guide to the field of engineering and engineering technology, Introduction to Engineering: An Assessment and Problem-Solving Approach serves as an aid to both instructor and student in developing competencies and skills required by ABET and AAC&U.

abet computer science online: Managing the Drug Discovery Process Susan Miller, Walter Moos, Barbara Munk, Stephen Munk, Charles Hart, David Spellmeyer, 2023-03-09 Managing the Drug Discovery Process, Second Edition thoroughly examines the current state of pharmaceutical research and development by providing experienced perspectives on biomedical research, drug hunting and innovation, including the requisite educational paths that enable students to chart a career path in this field. The book also considers the interplay of stakeholders, consumers, and drug firms with respect to a myriad of factors. Since drug research can be a high-risk, high-payoff

industry, it is important to students and researchers to understand how to effectively and strategically manage both their careers and the drug discovery process. This new edition takes a closer look at the challenges and opportunities for new medicines and examines not only the current research milieu that will deliver novel therapies, but also how the latest discoveries can be deployed to ensure a robust healthcare and pharmacoeconomic future. All chapters have been revised and expanded with new discussions on remarkable advances including CRISPR and the latest gene therapies, RNA-based technologies being deployed as vaccines as well as therapeutics, checkpoint inhibitors and CAR-T approaches that cure cancer, diagnostics and medical devices, entrepreneurship, and AI. Written in an engaging manner and including memorable insights, this book is aimed at anyone interested in helping to save countless more lives through science. A valuable and compelling resource, this is a must-read for all students, educators, practitioners, and researchers at large—indeed, anyone who touches this critical sphere of global impact—in and around academia and the biotechnology/pharmaceutical industry. - Considers drug discovery in multiple R&D venues - big pharma, large biotech, start-up ventures, academia, and nonprofit research institutes - with a clear description of the degrees and training that will prepare students well for a career in this arena - Analyzes the organization of pharmaceutical R&D, taking into account human resources considerations like recruitment and configuration, management of discovery and development processes, and the coordination of internal research within, and beyond, the organization, including outsourced work - Presents a consistent, well-connected, and logical dialogue that readers will find both comprehensive and approachable - Addresses new areas such as CRISPR gene editing technologies and RNA-based drugs and vaccines, personalized medicine and ethical and moral issues, AI/machine learning and other in silico approaches, as well as completely updating all chapters

abet computer science online: Online Education Business , 2012-07-15 Teaching Goes High-Tech Online education is experiencing a huge growth spurt. The number of students taking online classes increased 24 percent in the past year-and this growth is only expected to continue. Don't let this lucrative opportunity pass you by. Take your teaching global by offering courses online. Learn everything you need to know to set up a successful online education business: Find financing, write a business plan, choose a business structure and learn other business basics Develop exciting courses in the four most popular areas-IT, health care, education and business-as well as niche markets Promote your business and attract students through online newsletters, search engine optimization and other innovative techniques Design a user-friendly website and provide high-quality tech support Train instructors in this new education medium, or teach courses yourself And more! Real-life stories from successful entrepreneurs show you exactly what you need to do to set up and run a profitable business. Now's the perfect time to get started with an online education business-and with this book, you're well on your way to success. The First Three Years In addition to industry specific information, you'll also tap into Entrepreneur's more than 30 years of small business expertise via the 2nd section of the guide - Start Your Own Business. SYOB offers critical startup essentials and a current, comprehensive view of what it takes to survive the crucial first three years, giving you exactly what you need to survive and succeed. Plus, you'll get advice and insight from experts and practicing entrepreneurs, all offering common-sense approaches and solutions to a wide range of challenges. • Pin point your target market • Uncover creative financing for startup and growth • Use online resources to streamline your business plan • Learn the secrets of successful marketing • Discover digital and social media tools and how to use them • Take advantage of hundreds of resources • Receive vital forms, worksheets and checklists From startup to retirement, millions of entrepreneurs and small business owners have trusted Entrepreneur to point them in the right direction. We'll teach you the secrets of the winners, and give you exactly what you need to lay the groundwork for success. BONUS: Entrepreneur's Startup Resource Kit! Every small business is unique. Therefore, it's essential to have tools that are customizable depending on your business's needs. That's why with Entrepreneur is also offering you access to our Startup Resource Kit. Get instant access to thousands of business letters, sales letters, sample documents and more -

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abet computer science online: Software Engineering: Effective Teaching and Learning Approaches and Practices Ellis, Heidi J.C., Demurjian, Steven A., Naveda, J. Fernando, 2008-10-31 Over the past decade, software engineering has developed into a highly respected field. Though computing and software engineering education continues to emerge as a prominent interest area of study, few books specifically focus on software engineering education itself. Software Engineering: Effective Teaching and Learning Approaches and Practices presents the latest developments in software engineering education, drawing contributions from over 20 software engineering educators from around the globe. Encompassing areas such as student assessment and learning, innovative teaching methods, and educational technology, this much-needed book greatly enhances libraries with its unique research content.

abet computer science online: Virtual Education Fawzi Albalooshi, 2003-01-01 Recent technological advances have made virtual education an increasingly popular and effective degree program in many colleges and universities across the globe, and this academic book considers the challenges that students, faculty, and information specialists face in successful implementation. Current research is provided on designing e-learning environments to suit different cognition styles, forming online communities through group support systems and creative idea generation, and facilitating instructor-student communication and performance assessment. Attention is given to evaluating multimedia and educational software.

abet computer science online: Educating the Engineer of 2020 National Academy of Engineering, 2005-11-06 Educating the Engineer of 2020 is grounded by the observations, questions, and conclusions presented in the best-selling book The Engineer of 2020: Visions of Engineering in the New Century. This new book offers recommendations on how to enrich and broaden engineering education so graduates are better prepared to work in a constantly changing global economy. It notes the importance of improving recruitment and retention of students and making the learning experience more meaningful to them. It also discusses the value of considering changes in engineering education in the broader context of enhancing the status of the engineering profession and improving the public understanding of engineering. Although certain basics of engineering will not change in the future, the explosion of knowledge, the global economy, and the way engineers work will reflect an ongoing evolution. If the United States is to maintain its economic leadership and be able to sustain its share of high-technology jobs, it must prepare for this wave of change.

abet computer science online: Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills Yu, Ligu, 2014-03-31 Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry. However, given the lecture-based curriculum present in academia, it is not an easy undertaking to deliver industry-standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students. Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills combines recent advances

and best practices to improve the curriculum of software engineering education. This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education.

abet computer science online: Blended Learning in Engineering Education Ataur

Rahman, Vojislav Ilic, 2018-11-06 Blended Learning combines the conventional face-to-face course delivery with an online component. The synergetic effect of the two modalities has proved to be of superior didactic value to each modality on its own. The highly improved interaction it offers to students, as well as direct accessibility to the lecturer, adds to the hitherto unparalleled learning outcomes. Blended Learning in Engineering Education: Recent Developments in Curriculum, Assessment and Practice highlights current trends in Engineering Education involving face-to-face and online curriculum delivery. This book will be especially useful to lecturers and postgraduate/undergraduate students as well as university administrators who would like to not only get an up-to-date overview of contemporary developments in this field, but also help enhance academic performance at all levels.

abet computer science online: Designing Better Engineering Education Through Assessment

Joni E. Spurlin, Sarah A. Rajala, Jerome P. Lavelle, 2008 This book is written for engineering faculty and department chairs as a practical guide to improving the assessment processes for undergraduate and graduate engineering education in the service of improved student learning. It is written by engineering faculty and assessment professionals who have many years of experience in assessment of engineering education and of working with engineering faculty. The book reflects the emphasis placed on student outcomes assessment by ABET, Inc., the organization that accredits most U.S. engineering, computer science and technology programs, as well as providing substantial equivalency evaluations to international engineering programs. The book begins with a brief overview of assessment theory and introduces readers to key assessment resources. It illustrates-through practical examples that reflect a wide range of engineering disciplines and practices at both large and small institutions, and along the continuum of students' experience, from first year to capstone engineering courses through to the dissertation-how to go about applying formative and summative assessment practices to improve student learning at the course and program levels. For most institutions, assessment of graduate education is new; therefore, there are readers who will be particularly interested in the chapters and examples related to graduate education. This book concludes with a vision for the future of assessment for engineering education. The authors cover five basic themes: -Use of assessment to improve student learning and educational programs at both undergraduate and graduate levels -Understanding and applying ABET criteria to accomplish differing program and institutional missions -Illustration of evaluation/assessment activities that can assist faculty in improving undergraduate and graduate courses and programs -Description of tools and methods that have been demonstrated to improve the quality of degree programs and maintain accreditation -Identification of methods for overcoming institutional barriers and challenges to implementing assessment initiatives

abet computer science online: Employing Recent Technologies for Improved Digital Governance Ponnusamy, Vasaki, Rafique, Khalid, Zaman, Noor, 2019-12-27

The digital divide, caused by several factors such as poverty and slow communication technologies, has offset the progression of many developing countries. However, with rapid changes in technology, a better collaboration among communities and governance based on the latest research in ICT and technology has begun to emerge. Employing Recent Technologies for Improved Digital Governance is an essential reference source that provides research on recent advances in the development, application, and impact of technologies for the initiative of digital governance. The book has a dual objective with the first objective being to encourage more research in deploying recent trends in the internet for deploying a collaborative digital governance. The second objective is to explore new possibilities using internet of things (IoT) and cloud/fog-based solutions for creating a collaboration between the governance and IT infrastructure. Featuring research on topics such as intelligent systems, social engineering, and cybersecurity, this book is ideally designed for policymakers,

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