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Introduction to gis syllabus

present central concepts in cartography and map design, such as projections, generalization and symbology,4. : 2024 : Getting to know ArcGIS pro : 3.2Law Michael, Collins AmyFifth edition. Thematic map creation and map layout production constitute important module elements.Module 2: Editing, geoprocessing and analysis, 7.5 creditsThe module focuses on how to use GIS to create and edit vector data, carry out vector and raster data geoprocessing and perform basic spatial analysis. You can reach me by email (june.skeeter@ubc.ca) or drop by my in person in office hours (Rom 144, Geography Bldg.), or meet me on Zoom. A written request for an alternative examiner should be handed to the director of undergraduate studies.Academic credit transferA student has the right to apply for a transfer of credits for previous education or activity. Aspects of cartography and map design are then dealt with, as well as the use of GIS to manage, visualize and query geospatial data and conduct basic geoprocessing. The course content will include data input, storage and editing, … This course provides an introduction to the fundamentals of Geographic Information Systems (GIS) and its application in sustainability, urban planning, landscape planning, the social … We will learn how geospatial data can be used to aid decision-making, complement scientific analysis, assist with urban planning, and help inform policy-making. : Redlands, California : Esri Press : [2024] : ISBN: 9781589487772Search the University Library catalogueMitchell AndyThe Esri guide to GIS analysis : Volume 1 Geographic patterns and relationshipsSecond edition. The course is in English. We will learn how geospatial data can be used to aid decision-making, complement scientific analysis, assist with urban planning, and help inform policy-making. Students who require an adapted examination must submit a request to the department holding the course no later than 10 days before the examination. In order to receive the grade Pass (G), a passing grade is needed for all examinations. Applications regarding transfer of credits are processed by Student Services. The examiner decides on the adaption of the examination, after which the student will be notified.It is not possible to appeal against a received grade, i.e., to get it examined by a higher authority, but a student can always criticize the grading or ask the examiner to reconsider the examination.Students who have passed an examination cannot redo the examination to receive a higher grade. In person office hours are Wednesdays after lecture and Thursdays from 2:00-3:00 room 144). In this context, geodatabase capabilities such as topology rules, as well as ways to automate and document data management and processing, are introduced. carry out geoprocessing of vector and raster data,8. For students who have not passed an ordinary examination occasion, a new occasion for examination (a resit) is offered according to Umeå University's Grading and examination regulations for first- and second-cycle studies (Regulation FS 1.1.2-553-14). This class contains lectures and experience in ArcGIS, which leads to a working knowledge of GIS … Overview of Geographic Information System (GIS) concepts and components. Learning Outcomes This course will expose you to key concepts and tools used to collect, map, and interpret geographic data. How phenomena are represented as geospatial data in a GIS. My principal aim this semester is to provide a holistic introduction to the study of Geographic Information Science and application of Geographic Information Systems. Topics include spatial (location) and … The module will introduce the concepts and techniques underpinning geographic information systems. : Redlands, California : ESRI Press : [2020] : xi, 299 pages : ISBN: 9781589485792Search the University Library catalogueZhu XuanGeographical information systems : a practical approachSecond edition : New York : Routledge : 2024 : pages cm : ISBN: 9781032380469Search the University Library catalogue Getting to know ArcGIS pro : 3.2Law Michael, Collins AmyFifth edition. Table of contents Course Introduction Video This video provides an overview of the course syllabus. After completing the course, the student should be able to:Knowledge and understanding1. My Research I use GIS extensively is my research studying climate change in the Arctic. How to implement geospatial analysis methods. create and interpret thematic maps,9. In addition to covering topics related to cartography and map design, the course deals with uses of GIS for purposes of visualization and analysis. Learn how to read and interpret maps and data and use basic cartography principles to create maps that can be used in reports and presentations. : 2024 : Learn how to read and interpret maps and data and use basic cartography principles to create maps that can be used in reports and presentations. Skip to main content Select country: UK India Malaysia When you'll study it Semester 1 CATS points 15 ECTS points 7.5 Level Level 5 Module lead Andrew Phillips Academic year 2025-26 Study View all courses Taught postgraduate study Pre-sessional English courses Pre-sessional English courses Course modules Assessment Subjects PhDs and research degrees Exchanges and studying abroad Undergraduate study Tuition fees, funding and scholarships Short courses Continuing professional development Lunchtime evening and weekend courses Clearing Summer schools Get a prospectus Student life Research Our impact Research projects Research areas Research facilities Collaborate with us Institutes, centres and groups Active Living Advanced Fibre Applications Advanced Laser Laboratory Advanced Project Management Research Centre Antibody and Vaccine Group Astronomy Group Autism Community Research Network @ Southampton (ACoRNS) Bioarchaeology and Osteoarchaeology at Southampton (BOS) Bladder and Bowel Management Cell and Developmental Biology Centre for Defence and Security Research Centre for Developmental Origins of Health and Disease Centre for Digital Finance Centre for Eastern European and Eurasian Studies (CEEES) Centre for Empirical Research in Finance and Banking (CERFIB) Centre for Geometry, Topology, and Applications Centre for Global Englishes Centre for Global Health and Policy (GHaP) Centre for Green Maritime Innovation (cGMI) Centre for Health Technologies Centre for Healthcare Analytics Centre for Human Development, Stem Cells and Regeneration Centre for Imperial and Postcolonial Studies Centre for Inclusive and Sustainable Entrepreneurship and Innovation (CISEI) Centre for International Film Research (CIFR) Centre for International Law and Globalisation Centre for Internet of Things and Pervasive Systems Centre for Justice Studies Centre for Linguistics, Language Education and Acquisition Research Centre for Machine Intelligence Centre for Maritime Archaeology Centre for Medieval and Renaissance Culture (CMRC) Centre for Modern and Contemporary Writing (CMCW) Centre for Political Ethnography (CPE) Centre for Research in Accounting, Accountability and Governance Centre for Research on Work and Organisations Centre for Resilient Socio-Technical Systems Centre for Transnational Studies Child and Adolescent Research Group Clinical Ethics, Law and Society (CELS) Clinical Legal Education Computational Nonlinear Optics Cyber Security Academy Data Science Group Digital Oceans EPSRC and MOD Centre for Doctoral Training in Complex Integrated Systems for Defence and Security Economic Theory and Experimental Economics Economy, Society and Governance Electrical Power Engineering Environmental Hydraulics Gas Photonics in Hollow Core Fibres Geochemistry Global Health (Demography) Global Health Community of Practice Gravity group High Power Fibre Lasers Hollow Core Fibre Human Genetics and Genomic Medicine Infection Infrastructure Group Institute of Developmental Sciences Institute of Maritime Law (IML) Integrated Photonic Devices Interdisciplinary Musculoskeletal Health International Centre for Ecohydraulics Research (ICER) Language Assessment and Testing Unit (LATU) Laser-Direct-Write (LDW) Technologies for Biomedical Applications Law and Technology Centre Long Term Conditions Magnetic Resonance Mathematical Modelling Medicines Management Molecular and Precision Biosciences Multiwavelength Accretion and Astronomical Transients National Biofilms Innovation Centre (NBIC) National Centre for Research Methods National Infrastructure Laboratory Nature-Based Ocean Solutions Nonlinear Semiconductor Photonics Ocean Perception Group Operational Research Optical Engineering and Quantum Photonics Group Paediatrics and Child Health - Clinical and Experimental Sciences People, Property, Community Photonic Systems, Circuits and Sensors Group Physical Optics Primary Care Research Centre Quantum, Light and Matter Group Silica Fibre Fabrication Silicon Photonics Skin Sensing Research Group Southampton Centre for Nineteenth-Century Research Southampton Ethics Centre Southampton Health Technology Assessments Centre (SHTAC) Southampton High Energy Physics group Southampton Imaging Southampton Theory Astrophysics and Gravity (STAG) Research Centre Stefan Cross Centre for Women, Equality and Law String theory and holography The India Centre for Inclusive Growth and Sustainable Development The Parkes Institute Tony Davies High Voltage Laboratory Ultrafast X-ray Group Vision Science WSA Exchange Work Futures Research Centre (WFRC) Support for researchers Faculties, schools and departments Research jobs Find people and expertise Business Global This Syllabus is a living document and will be updated as the semester progresses. The ethical implications of GIS analysis. More recently, I've started using GIS to track police violence in Canada. You will gain practical experience using geospatial data to solve problems in both the natural and human realms. At least 50 percent of the maximum score is required for passing a scored examination. explain the principles and utility of GIS,2. View Video in New Tab Learn how to read and interpret maps and data and use basic cartography principles to create maps that can be used in reports and presentations. GIS workflows and collaborating to complete a GIS project. Sources of error in GIS analysis and output. 6, §22). When I'm not working, I like to spend my free time hiking, snowboarding, baking, and gardening. The course is examined by the following exams:Module 1:Two individual written assignments (Pass/Fail).Seminar-based oral presentation (Pass/Fail).Individual written examination (0-40 points).Module 2:Two individual written assignments (Pass/Fail).Individual take-home examination (0-40 points).The grading scale for the course is Pass with distinction (VG), Pass (G) or Fail (U). produce and present efficient map layouts and other visual representations of spatial data,10. I am a geographer, researcher, and educator with a passion for social and ecological justice. use GIS for basic spatial analysis. You will gain practical … After learning basic concepts, attendees will work through an exercise using ArcGIS Pro or QGIS. For examinations conducted during the months of May and June, the first resit may be offered within three months after the ordinary examination occasion.A student who on two occasions has failed an examination has the right to have another examiner appointed if there are no specific reasons for not doing so (HF chap. You can find links to all the course material along with important dates and deadlines in the course Schedule. Geographic Information Systems (GIS) are tools for managing, describing, analyzing, and presenting information about the relationships between where features are (location, size and … Introduces students to the fundamentals of Geospatial Technology including concepts and use of Geographic Information Systems (GIS), and brief overview to the use of Global Positioning … Learn about basic GIS terms, available systems, data sources and GIS policy decisions. A resit shall be offered no later than two months after the ordinary examination occasion, but no less than ten working days after the results of the ordinary examination have been announced. Presentation GIS Level 1: Introduction to GIS & Mapping Slides (PDF - 6.5MB) GIS Level 1: Introduction to GIS & Mapping Presentation (PPTX - 30.5MB) GIS Level 1: Introduction to GIS & Mapping Printable Slides with Notes (PDF - 4.9MB) Introduction and Setup GIS Level 1 Instructions (PDF) (DOCX) Workshop Exercises GIS Level 1 QGIS Workshop Exercises (PDF) (DOCX) GIS Level 1 ArcGIS Pro Workshop Exercises (PDF) (DOCX) Take-Home Exercises GIS Level 1 QGIS Take-Home Exercises (PDF) (DOCX) GIS Level 1 ArcGIS Pro Take-Home Exercises (PDF) (DOCX) Data GIS Level 1 Data (ZIP) This ZIP file contains 2 .txt, 5 .shx, 5 .shp, 5 .prj, 6 .dbf, 5 .cpg, 1 .csv, 4 .xml, 1 .ovr, 1 .tif, 1 .tfw, 3 .sbx, and 3 .sbn files. : Redlands, California : ESRI Press : [2020] : xi, 299 pages : ISBN: 9781589485792Search the University Library catalogueZhu XGeographical Information Systems: A Practical ApproachRoutledge. The adaption of modes of assessment must remain within the framework of the intended learning outcomes in the course syllabus. I am non-binary and my pronouns are they/them/theirs. Both vector and raster data and functionality are given attention. create and edit vector data,7. Such a request shall be processed as soon as possible. Swedish name: Introduktion till GIS This syllabus is valid: 2023-10-16 and until further notice Education level: First cycle Main Field of Study and progress level: Human Geography: First cycle, has only upper-secondary level entry requirements Grading scale: Pass with distinction, Pass, Fail Responsible department: Department of Geography Established by: Head of Department of Geography and Economic History, 2023-10-18 The course provides an introduction to geographical information systems (GIS). Literature Getting to know ArcGIS pro : 3.2Law Michael, Collins AmyFifth edition. This course provides an introduction to the fundamental theories and concepts of Geographic Information Systems (GIS). Required Knowledge General entry requirements Teaching is given in the form of lectures, exercises, supervision and seminars. Individual adaption of modes of assessment must give due consideration to the student's needs. To receive the grade Pass with distinction(VG) on a module and the course as a whole, at least 75 percent of the maximum score is required.Examiners may decide to deviate from the modes of assessment in the course syllabus. manage, visualize and query geospatial data,6. describe the functionality of GIS software and data formats,3. give an account of key GIS tools for data management and processing,Competence and skills5. This term we will cover: How GIS functions and how it can be applied to solve problems. In case a course syllabus is no longer valid or has undergone significant revisions, students are guaranteed at least three examination sessions(including the regular examination session) according to the course syllabus the student initially was registered on, for a maximum of two years. The main software used is ArcGIS Pro.Module 1: Cartography and map design, 7.5 creditsThe module starts with an overview of the capabilities of GIS. Both theoretical and applied realms of GIS are emphasized in this course. Zoom office hours are by appointment (Monday's 203), shoot me an email to let me know you plan to attend! I'm happy to meet at other times by request with 24 hours notice. Your Instructor My name is June Skeeter, I am a white settler and immigrant from the United States who has been living as an uninvited guest on unceded Coast Salish Territory for six years. Visualizing geospatial data and principles of good map design.