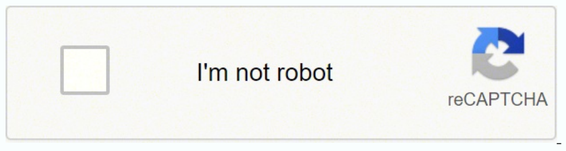

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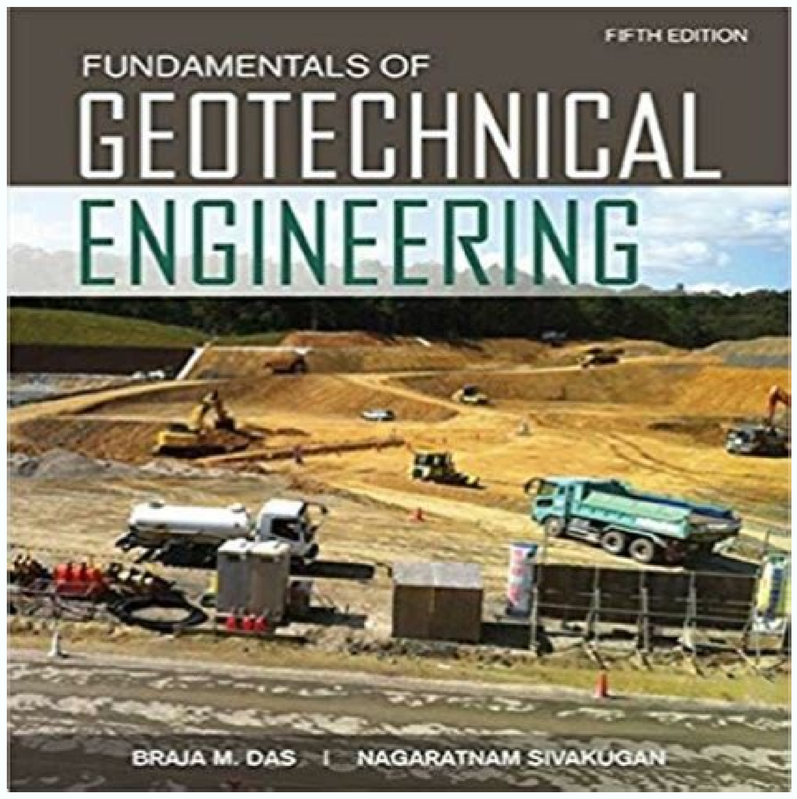


CHAPTER 4

4.1 SOIL A: From Table 4.1, the soil is A-2-4. The *GI* for A-2-4 is zero. So, the classification is **A-2-4(0)**.

SOIL B: Table 4.1. Soil is A-3. *GI* = 0. Classification: **A-3(0)**

SOIL C: Table 4.1. Soil is A-2-6. Equation (4.2):

$GI = 0.01(F_{200} - 15)(PI - 10) = 0.01(12 - 15)(13 - 10) = -0.09 \approx 0$

Classification: **A-2-6(0)**

SOIL D: Table 4.1. Soil is A-2-7. Equation (4.2):

$GI = 0.01(F_{200} - 15)(PI - 10) = 0.01(30 - 15)(18 - 10) = 1.2 \approx 1$

Classification: **A-2-7(1)**

SOIL E: Table 4.1. Soil is A-1-b. The group index for A-1-b is 0.

Classification: **A-1-b(0)**

4.2 SOIL A: Table 4.1. Soil is A-7-5.

Note: $PI = 21$, which is less than $LL - 30 = 52 - 30 = 22$

$GI = (F_{200} - 35)[0.2 + 0.005(LL - 40)] + 0.01(F_{200} - 15)(PI - 10)$

$= (72 - 35)[0.2 + 0.005(52 - 40)] + 0.01(72 - 15)(21 - 10) = 15.89 \approx 16$

Classification: **A-7-5(16)**

SOIL B: Table 4.1. Soil is A-6.

$GI = (F_{200} - 35)[0.2 + 0.005(LL - 40)] + 0.01(F_{200} - 15)(PI - 10)$

$= (58 - 35)[0.2 + 0.005(38 - 40)] + 0.01(58 - 15)(12 - 10) = 5.23 \approx 5$

Classification: **A-6(5)**

SOIL C: Table 4.1. Soil is A-7-6.

Note: $PI = 14$ is greater than $LL - 30 = 11$

$GI = (F_{200} - 35)[0.2 + 0.005(LL - 40)] + 0.01(F_{200} - 15)(PI - 10)$

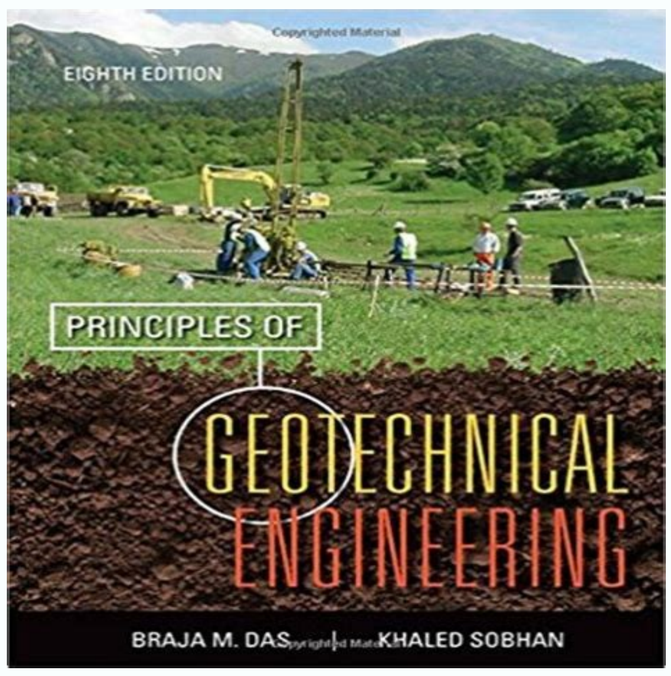
$= (64 - 35)[0.2 + 0.005(41 - 40)] + 0.01(64 - 15)(14 - 10) = 7.905 \approx 8$

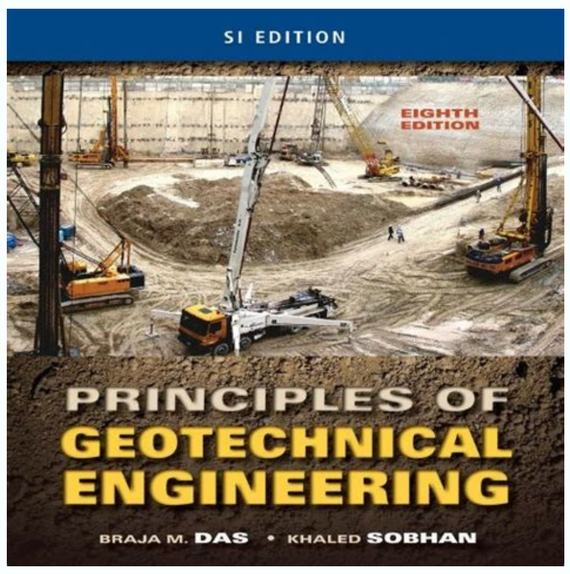
Classification: **A-7-6(8)**

SOIL D: Table 4.1. Soil is A-6.

$GI = (F_{200} - 35)[0.2 + 0.005(LL - 40)] + 0.01(F_{200} - 15)(PI - 10)$

$= (82 - 35)[0.2 + 0.005(32 - 40)] + 0.01(82 - 15)(12 - 10) = 8.86 \approx 9$





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Applicants who do not receive an offer at the first deadline will be reconsidered at the final deadline and will receive an admission decision at that time. Many experienced civil technologists have attained senior positions in organizations or started their own businesses. Students can apply for student membership in ASTTBC The Bachelor of Engineering in Civil Engineering is nationally accredited by the Canadian Engineering Accreditation Board (CEAB). Note: The September 2022 intake is now closed for new applications. There is great value in honest self-assessment to identify and address both your strengths and weaknesses . In 2021, high school applicants met entrance requirements in mathematics, sciences, and communications. You will learn about the role of the engineer in project and construction management and enrich your educational experience with complementary studies courses relating to social sciences and the humanities. You will also be challenged to view the engineer's role from an interdisciplinary and multidisciplinary perspective. State the difference between mass and force. (Obviously, you'll quickly develop time-management skills as a survival mechanism.) In total, then, over the first 2 years, you'll attend some 2100 hours of classroom time, and take 32 courses prior to receiving your diploma. This virtual desktop is accessible both on campus and remotely, and may be used within particular courses for instruction purposes. Through her previous managing role as a Group Lead, she provided leadership and direction to assigned staff. The program course matrix is highly interrelated and structured, and all students take the same courses for the first three terms (Levels 1 to 3). You will receive a Diploma in Civil Engineering credential upon successful completion of the first two years of academic study within this degree program. He is a past President of the VSEGS, and a founder of the SEABC Initiative Steering Committee. The program is not organized on a semester intake system. If you have previously completed part of this program at BCIT and wish to re-enter full-time study (minimum 60% course load) at an advanced level, you can apply for re-admission. No additional software will need to be installed on your computing device. Professional Affiliations Engineers Association of British Columbia (SEABC) American Concrete Institute (ACI) Instructor, Civil Engineering School of Construction and the Environment Martin_Bollo@bcit.ca Work Experience Martin Bollo is a structural engineer with over twenty-five years of diverse engineering and engineering instruction experience in Canada and the United States. More detailed information can be accessed at the BC Student Outcomes website. He has performed the role of structural engineer in various stages of an engineering project including conceptual design, feasibility study and preliminary/detailed design as well as execution/construction management. The summer periods between years 2 and 3 and years 3 and 4 provide sufficient time to meet these requirements. All supporting documents must be submitted by the application deadline to be considered.Applications are accepted: October 1st* to February 15th* February 16th* to April 15th* *or next business day This program has multiple application deadlines. Under the broad umbrella of civil engineering, they can specialize as: environmental engineers; municipal or public works engineers; construction or project engineers; highway, transportation or traffic engineers; water resource or hydraulic engineers; geotechnical engineers; bridge, building, or structural engineers. Education Ph.D. in Civil Engineering, University of British Columbia, 2021 M.A.Sc. in Civil Engineering, University of British Columbia, 2016 B.A.Sc. in Civil Engineering, China Agricultural University, 2013 Professional Registrations P.Eng., British Columbia P.E., State of Washington Assistant Instructor, Civil Engineering School of Construction and the Environment kanwar_bedi@bcit.ca Sessional Instructor, Civil Engineering School of Construction and the Environment max_scruton@bcit.ca Administrative Assistant: Full-Time Program Civil Engineering School of Construction and the Environment Kristin_Maxom@bcit.ca (on leave until August 2023) C. Continuation into Level 5 (third year) is only available to students who have completed the following: BCIT Civil Engineering students intending to continue directly from Level 4 into Level 5 in the same calendar year must meet the continuation requirements stated above and submit the following by email to the Civil Engineering Student Coordinator: A continuation confirmation form (available upon request from the Student Coordinator). This program is available to international applicants. Post-secondary applicants also completed courses in a related field. Admission is competitive and will be offered to the most qualified applicants. Searle, P.Eng.: Metro Vancouver D. His work portfolio includes a diverse array of projects ranging from buildings, bridges and dams to pipelines, infrastructure and mining projects. He has acted in the capacity of project engineer and project manager through all project phases from concept level planning to detailed design, cost estimate, tendering, contract administration and construction field inspections. Eligible students may continue into academic years 3 and 4 which will lead to a Bachelor of Engineering in Civil Engineering. His list of research publications can be found on his Google Scholar profile. *This includes BCIT Civil Engineering exchange students returning from the Biberach University of Applied Sciences. Phyllis's experience includes infrastructure and bridge engineering-related projects in Canada and the United States, where she has acted as Proposal Lead, Key Client Account Manager, Project Manager, Designer, Design Checker, and Analyst for bridge projects. It is expected that your first 300 hours will be at Work Experience Level 1 or 2. Education PhD, Civil Engineering, University of British Columbia, 2013 Thesis Title: "The Effects of Global Climate Change on Carbonation Induced Corrosion of Reinforced Concrete Structures." MASc, Civil Engineering, University of British Columbia, 2008 BASc, Civil Engineering, University of British Columbia, 2004 Professional Registration P.Eng., British Columbia, 2018 Professional Affiliations American Concrete Institute (ACI): Committee 130, Voting Member American Concrete Institute (ACI), British Columbia Chapter: Board of Directors International Association for Bridge and Structural Engineering (IABSE): Task Group 5.3, Voting Member Instructor, Civil Engineering School of Construction and the Environment David_Wong@bcit.ca Work Experience David Wong has nine years of consulting experience in project management of municipal projects and ten years in construction supervision of water and sewer work. Faculty Program Coordinator and Instructor, Civil Engineering School of Construction and the Environment Syed_Zaki_Abdullah@bcit.ca Work Experience Zaki is a civil engineer with 7 years of engineering work experience in various countries including Canada, South Korea, Singapore, and Germany. S. Education PhD, Civil Engineering, Structural Specialization, McMaster University, Canada, 2011 Research Topic: "Performance of FRP-encased Steel-Concrete Composite Columns." MSc, Civil Engineering, Seismic Specialization, Sharif University of Technology, Iran, 2005 BASc, Civil Engineering, Shiraz University, Iran, 2003 Professional Registrations P.Eng., British Columbia, Canada PE, State of California, USA Assistant Instructor, Civil Engineering School of Construction and the Environment Aiden_Kiani@bcit.ca Instructor, Civil Engineering (On leave until July 2022) School of Construction and the Environment Anna_Ovanesova@bcit.ca Education PhD, Civil Engineering, University of Puerto Rico (ABET Accredited), 2001 MSc, Civil Engineering, Odessa Marine Engineering Institute, 1991, Ukraine BEng, Civil Engineering, Odessa Marine Engineering Institute, Ukraine Professional Registration P.Eng, British Columbia P.Eng, Ontario Instructor, Civil Engineering School of Construction and the Environment bpandey@bcit.ca Work Experience Bishnu has worked as an earthquake engineering expert for more than eighteen years in North America and Asia-pacific countries. Note that continuation beyond Year 2 of the program is subject to conditions as outlined in the section below. A Diploma in Civil Engineering credential is conferred after the first two years of academic study and, if you meet the continuation requirements, a Bachelor of Engineering in Civil Engineering is conferred upon successful completion of academic year four. Apply now. Continuation GPA: To be eligible to continue into Level 5 of the degree, you must achieve a minimum 70% continuation GPA under a full-time program load. The Program The BEng in Civil Engineering is composed of four years of full-time academic study. Fernandes, AScT: PCL Constructors Westcoast Inc. Applications for re-admission may be submitted. Isolate an unknown variable in an algebraic expression using common algebraic manipulations for sums, differences, products, fractions, and exponents. Include a completed Practical Work Experience form [PDF] and supporting Attachment #1 with your application. Education MEng, Civil (Structural) Engineering, University of California, Berkeley, 1991. Throughout the program, we will present opportunities to strengthen your graphical, written, and oral communication skills. Entrance requirements typically specify a Bachelor Degree in Civil Engineering with sufficiently high academic standing. Describe the relationship between distance, velocity, and acceleration and their respective units. Civil engineers may also specialize in foundation analysis, building and structural inspection, surveying and municipal planning. A typical term requires that you attend 30 hours per week of classroom, laboratory, and tutorial time. Write fundamental theorems of Euclidian geometry. Education PhD, Civil Engineering, University of British Columbia, March 2022 (Expected) MASc, Civil Engineering, University of British Columbia, 2016 BE, Civil Engineering, BMS College of Engineering, VTU, Bangalore, India, 2013 Professional Registration Engineer-in-Training (British Columbia) Instructor, Civil Engineering School of Construction and the Environment Kian_Karimi@bcit.ca Work Experience Dr. Karimi is a registered professional engineer in British Columbia, Canada (P.Eng.) and in the state of California, USA (PE) with over 10 years of practical experience in the consulting environment. The TE program provides courses in chemistry, communication, mathematics, and physics that meet program prerequisites for selected programs at BCIT. During the course of his PhD studies, Dr. Karimi studied application of Fibre Reinforced Polymers (FRP) in upgrading structures and has co-authored several technical publications in peer-reviewed journals in this area. Thesis Title: "A Contribution to a Practical Approach to Corrosion Protection and Coating Maintenance of Steel Bridge Structures." BASc (Honours), Civil Engineering, University of British Columbia, 2003 Professional Registration P.Eng., British Columbia Instructor and Student Coordinator, Civil Engineering School of Construction and the Environment adabeet@bcit.ca Assistant Instructor, Civil Engineering School of Construction and the Environment rdaxon@bcit.ca Work Experience Ray has been working at BCIT as an Assistant Instructor in the Civil Engineering Program since June 2013. Thesis Title: "Investigation of Pulling Loads and Mud Pressures during HDD." Aerostructures Technician Certificate, British Columbia Institute of Technology, 1998 MSc, Structural Engineering, Queen's University, 1995 BEng, Mechanical Engineering, Royal Military College, 1984 Professional Registration P.Eng, Ontario 1995 P.Eng, British Columbia, 2008- present Instructor, Civil Engineering School of Construction and the Environment pbazargani@bcit.ca Work Experience Poureya Bazargani is a structural engineer with 7 years of engineering work experience. Solve problems of static equilibrium. We'll set a high standard and expect you to rise to meet it. Your education is our priority and we will continue to deliver the applied instruction, collaborative experience, and industry connections that you expect from BCIT. The first two years of the degree program present a broad, practical overview of the field of civil engineering, with engineering fundamentals stressed and reinforced across the curriculum. Here are the conditions you'll learn under… The Civil Engineering program is a four-year engineering program with an optional exit with a diploma after successful completion of academic year 2. We'll teach you theory in combination with its practical application, simulating an engineering office environment where possible. If you complete Levels 2, 3, and 4 in a mode other than full-time, you may also be considered for continuation into Level 5 if you meet the 70% GPA requirement.Levels 5-8: You must obtain a 55% final grade in order to pass the course. Numerous career paths exist in consulting engineering, construction, public works and the technical sales sector. Students may apply for student membership with the Engineers and Geoscientists BC. He is also teaching for the Certificates in Structural Engineering (CSE) program for the Structural Engineers Association of BC (SEABC) and University of British Columbia (UBC). This experience includes full-time and part-time experience in performing structural analysis, design, detailing, and construction/ contract administration of new and seismically retrofitted building, bridge and lifeline structures. You should also know that Engineers and Geoscientists British Columbia may accept up to a maximum of one year of pre-graduation experience towards the four years of engineering work experience required for registration as a Professional Engineer if it is supervised by a Canadian registered Professional Engineer and if it otherwise satisfies all of Engineers and Geoscientists BC's experience criteria. We have put measures in place for your safety and well-being, ensuring that all safety protocols are addressed. Convert all transcripts and supporting documents to PDF files. P.Eng., JJM Construction Ltd. These reports combine the last three years of available results for the 2019-2021 BCIT Outcomes Surveys of 2018-2020 graduates and for Degree 2016-2018 graduates. He has worked as an analyst and designer on many major and complex bridge structures across Canada and internationally. A continuous work period of 12 to 15 months is considered optimum because you will have the opportunity to use what you have learned and develop your skills in a real-world setting. The reports are organized into three-page summaries containing information on graduates' labour market experiences and opinions regarding their education. Whew! Four years, full-timeUpon successful completion of the first two years, students will earn a Diploma in Civil Engineering. The BEng in Civil Engineering is a four year full-time professional program that includes a Diploma in Civil Engineering conferred upon successful completion of the first two years (Levels 1 through 4) of the program. Schubak, P.Eng.: BC Hydro M. Submit a Course-by-Course Self-Assessment Form [PDF] with your online application showing proof of completion of (or registration in) all courses (or equivalents) in all levels below the level to which you are applying (e.g. applicants to level 3 must have completed all courses in levels 1 and 2). He serves as a member of the Seismic Design Technical Subcommittee of the Canadian Highway Bridge Design Code, as well as a committee member of the American Concrete Institute Committee 341 Earthquake Resistant Concrete Bridges. Prior to joining BCIT, he worked as a structural engineer at the consulting firm WSP in Vancouver for 6.5 years. To view these results, you may need to have the Adobe Acrobat Reader installed in your Web browser. Representative projects include seismic assessments and upgrade designs of major bridges, building and reservoirs. Please see the BCIT COVID-19 page for details on the procedures that have been implemented. Braley, AScT: City of Coquitlam R. Program delivery mode: in person This program will be delivered in person for the coming semester. Within two business days of submitting your completed application, BCIT will send a message to your personal and myBCIT e-mail addresses. R. He visited earthquake-damaged sites in California after the 1989 Loma Prieta and 1994 Northridge earthquakes. Civil engineers plan, design, develop and manage projects for the construction or repair of various structures and infrastructures. Jobke, P.Eng.: Associated Engineering Ltd. Successful applicants completed the Civil Engineering Technology Diploma at BCIT with an average above 70%, and exceeded entrance requirements. Please see the Degree & Graduate Studies Tuition & Fees pages for tuition fees: Level 1 & 2: $1800.00, Level 3 & 4: $1200.00, Level 5 & 6: $1200.00, Level 7 & 8: $1200.00 (general estimated cost, subject to change) These costs do not include the required computing device. Work with similar triangles and with radian measure. Qi has diverse experience in the consulting industry and research projects with a focus on performance-based seismic design of bridges. Bishnu is recipient of the 2018 BC Construction Leadership Award. At the same time, you will apply the practical civil engineering knowledge you have gained in course assignments and project work. To further develop your engineering skills for professional practice, you will work with classmates to complete a team-based capstone design project. Zaki has expertise and interests in the area of engineering capacity building through applied education, as well as in water and wastewater treatment technologies, innovative sanitation systems, solid waste management and environmental sustainability management. In addition to those listed below from the Department of Civil Engineering, you'll also benefit from the knowledge of BCIT Faculty from other departments on campus including Mathematics, Communications, Physics, Geomatics, Liberal Studies, Chemistry and Operations Management. The first two years run from the beginning of September to the end of May and each include a 15 week term from September through December and a 20 week term from January to the end of May. Degree graduates may pursue graduate studies in Civil Engineering, nationally or internationally. Practical Work Experience form [PDF] and supporting Attachment #1, within the first two weeks of classes in Level 5. The diploma in Civil Engineering is highly regarded by employers accross Canada. The TE program also includes an introductory course in computer applications and a learning skills course. The September 2023 intake will open for applications on October 3, 2022. You should be willing to put in long hours and work cooperatively with fellow students. Starting positions include: consulting design technologists, municipal plan checkers, construction inspectors and supervisors, detailers, technical sales representatives, material testing technicians, surveyors and CAD operators. Degree holders are eligible for Engineer-in-Training (EIT) membership with Engineers and Geoscientists BC. If you are a BCIT Civil Engineering Diploma recipient and have left the program for more than 4 months*, you must meet the continuation requirements stated above and: Apply for re-admission to Level 5 of the Civil Engineering program between October 1st and June 1st (or next business day). Education DiplT, Civil Engineering, British Columbia Institute of Technology, 2013 Professional Registration GradTech, Applied Science Technologists and Technicians of British Columbia, 2014 Instructor, Civil Engineering School of Construction and the Environment mfarooq6@bcit.ca Work Experience Mohammed Farooq is a civil engineer with expertise in general area of Construction Materials, Effects of Flooding on Infrastructure, Sensing, and Infrastructure Internet-of-Things. Continuation is based on seat availability. You will receive an abundance of learning opportunities to apply these fundamentals to the solution of real-world design scenarios that would be encountered by both technologists and engineers. Financial assistance may be available for this program. Regarding preparation, only you can know if your basic communications, mathematics, and physics skills honestly reflect the prerequisites for acceptance. A limited number of seats will be offered after the first application deadline. Continuation in this program is highly competitive. Rabey, AScT, PMP: R.F. Binnie & Associates For more information, please contact Student Financial Aid and Awards. Terness, P.Eng.: ISL Engineering and Land Services Ltd. At BCIT, Bishnu divides his time between lecturing, research and publication. Civil engineering is a diverse, rewarding and challenging profession. His current research projects include developing carbon-friendly cement-free geopolymer materials, and development of sensors for monitoring scour at bridge foundations. With a focus on developing strong skills in engineering science and design, communications, and management, the program presents many opportunities to develop critical thinking, problem solving and creative abilities. You can satisfy the practical work experience requirement by completing a minimum of 700 hours of relevant work experience. All correspondence regarding your application will be posted to your online myCommunication account at my.bcit.ca. Thesis Title: "Observations and Implications of Tests on the Cypress Street Viaduct Test Structure." BASc (Honours), Civil Engineering, University of British Columbia, 1989 Professional Registration P.Eng, British Columbia PE, SE, Washington and California Envision Sustainability Professional (ENV SP) Special Interests Martin is active in the professional community and has volunteered for the Canadian Society for Civil Engineering (CSCE), Structural Engineers Association of British Columbia (SEABC), Vancouver Structural Engineers Group (VSEGS), APEGBC DSE, APEGBC Richmond Branch, SEAONC, and other engineering-related groups. Instructor, Civil Engineering School of Construction and the Environment Colleen_Chan@bcit.ca Work Experience Colleen Chan's expertise and interests are in the area of water and wastewater treatment technologies, environmental sustainability management, solid waste management, and contaminated site remediation technologies. Education MASc, Civil (Structural) Engineering, University of British Columbia, 2005. If you're eligible to continue into Year 3, the following two years will add on another 1100 hours of classroom time plus another 26 courses before you receive a bachelor's degree. If you don't pass all courses in the first four terms, an extra academic year is almost always required to make up missed courses and successfully exit the program with a Diploma in Civil Engineering. Have a credit card ready to pay the application fee. Two steps remain: first, the Engineer-in-Training must complete a minimum of four years of satisfactory engineering work experience under the supervision of a registered professional engineer; secondly, the PEng candidate must pass the professional practice exam. Admission to this program is competitive. Students are strongly encouraged to complete all work early, attend all classes, labs and tutorials, take thorough notes, ask questions, manage your time effectively, and seek help from instructors and/or fellow students. Farooq has over three years of teaching experience, and has experience as a site engineer, supervising construction activities ranging from site-marking and excavation, to superstructure erection, mechanical electrical and plumbing, and finishing of low- and high-rise concrete residential units. Seat availability: confirmation may not be available until approximately one week before the term begins. Education PhD, Civil Engineering, University of Western Ontario, 2003. Completion of an engineering degree and obtaining EIT enrolment with a provincial engineering licensing body are the first steps for all engineers towards achieving licensure as a Professional Engineer (PEng). All applications go through a competitive, two-step process. If you meet the continuation requirements, you may continue into the final two years of the degree program which are academically rigorous. Use trigonometric functions to solve for unknown angles and sides of a right-angled triangle. Solve two equations with two unknowns. Step 2: Department assessment All applications that meet the minimum entrance requirements will be reviewed by the program area at the application deadline. Education PhD, Structural and Earthquake Engineering, University of British Columbia, 2014 BASc (Honours), Civil Engineering, Shiraz University, 2006 Professional Registration P.Eng., British Columbia Special Interests Poureya's main areas of specialty are soil-structure interaction, seismic analysis and design of reinforced concrete structures and seismic retrofit design. You'll take either 8 or 9 separate courses each term for the first two years, and then we'll reduce it to 6 or 7 courses for the final two years. As a Professional Engineer, one has the license to practice engineering and a seal to stamp and take responsibility for the designs and drawings one creates. Contact the Student Coordinator for guidance.Applications for re-admission to levels 2-4 and 6-8 are accepted throughout the year. A valid study permit is required prior to starting the program.Students enrolled in this program must complete the mandatory work component to qualify for graduation. Write or print clearly enough so that others can understand your work. You will spend a significant amount of time on hands-on training in material testing, surveying, manual and computer-aided drafting, and receive instruction in the use of engineering software tools. These include buildings, roads, airports, railways, rapid transit facilities, bridges, dams, ports and coastal installations, and systems related to highway and transportation services, water distribution and sanitation. Your courses will be delivered using lectures, labs, and tutorials. She has also supported construction services for several bridge projects. To submit your application: Include proof of meeting all entrance requirements. Despite the majority of his work experience having been in Canada, Poureya has also worked in Europe, the Middle East and Africa. Practical work experience requirement All students seeking to complete the BEng in Civil Engineering must satisfy the practical work experience requirement after obtaining a diploma. Express yourself verbally so that you are easily understood. Refer to Appendix A, Part 1 of Schedule A of the current ASTTBC Bylaws. Prior to joining the faculty at BCIT, Bishnu held appointments associated with earthquake risk mitigation of developing countries with several UN agencies and other organizations like World Bank, Save the Children and UNICEF. Subsequent work experience should indicate a progression in these levels, with some tasks at Level 3 after 700 hours. Education PhD, Civil Engineering, University of British Columbia, 2010. State the difference between a scalar and a vector quantity. Bring Your Own Device (BYOD) The Department of Civil Engineering is participating in an ongoing pilot project where all incoming Level 1 and Level 5 (Year 1 and Year 3) students and all continuing Level 3 and Level 7 (Year 2 and Year 3) students are required to bring a computing device meeting minimum requirements for use during courses in the program. The BCIT Bachelor of Engineering (BEng) in Civil Engineering prepares students for professional engineering practice. They may also be self-employed. You can expect to receive communication concerning the status of your application within four weeks. Applicant qualification will be ranked based on the following preferences: Academic success including consistency, grades above the minimum requirements, and/or success at a post secondary level Requirements completed within the last five years Complete and up-to date academic records If you have specific questions about the departmental assessment for admission to Level 1 of the Civil Engineering Program, please email the Civil Engineering Admissions Coordinator. More information can be found on his LinkedIn profile. Faculty office locations and phone numbers are available from the BCIT Directory. One of Martin's areas of specialty is in the field of seismic/earthquake engineering. Competitive Entry: Two-step processAdmission is competitive and will be offered to the most qualified applicants.Step 1: Meet the following entrance requirements Read more about how to meet BCIT's entrance requirements Once Admissions confirms that you have met the entrance requirements, please continue to provide additional documentation to demonstrate your ongoing academic progress. Kian's diverse experience encompasses design of residential, commercial and industrial buildings and infrastructure with expertise in seismic design. The final two academic years each consist of two 15 week terms; one from September to December and another from January to the end of April. The Port Mann Main Water Supply Tunnel, Kinross Tasiast Mauritania Gold Mine and seismic upgrade of the Ruskin Dam are among the projects that Poureya was heavily involved with. A co-op work permit is required prior to starting the work component. In these projects Zaki has acted as Program Manager, Key Client Account Manager, Proposal Lead, Designer, Design Evaluator, and QAQC Manager. They are employed by engineering consulting companies, municipal and other levels of government, and in many other industries. Note that applications for re-admission into any level of the program following a break from academic study exceeding two years will be considered on a case-by-case basis.Questions? Apply Now Learn more about how to apply The Technology Entry (TE) program is a full-time, day school program which provides academic upgrading to students wishing to enroll in Computing, Engineering, Electronic, and Health Sciences programs at BCIT. His work portfolio includes a diverse array of projects ranging from treatment system design, construction supervision and management of different types of water/wastewater treatment processes, national level guideline development for water distribution systems, engineering testing capacity building, and the development of innovative sanitation systems initiated by Gates Foundation. You will still be required to complete civil-specific courses within the first-year curriculum; please apply to Level 1. Assemble a sequence of paragraphs to relate a coherent story. Contact the Student Coordinator by email or by phone at 604-451-6854.Ready to submit your application? If you are applying for re-admission to level 2, you must also demonstrate the potential to succeed in the program. More information can be found by viewing his LinkedIn profile and his list of publications. His current research interests include developing alternative cementitious materials, investigating different non-destructive test methods for masonry blocks, and looking into the development of testing standards for shotcrete. Use the sine and cosine laws to solve for unknown angles and sides of a triangle that is not right-angled. Research Topic: "Optimization of Technologies for Water and Wastewater Treatment Applications, With Particular Focus on Hydrodynamic Conditions in Membrane Technologies." MSc, Chemical Engineering, University of Alberta, 2001 BSc, Chemical Engineering, University of Alberta, 1999 Professional Registration P.Eng., British Columbia, 2011 Program Head and Admissions Coordinator, Civil Engineering School of Construction and the Environment pchong26@bcit.ca Work Experience Phyllis Chong is a structural engineer with over 12 years of experience in engineering consulting prior to joining the faculty in the department of Civil Engineering at BCIT. At least 300 of these hours must be completed before entering Level 5 and the remaining hours must be completed before entering Level 7. Education BSc, Civil Engineering, San Diego State University, 1975 Professional Registrations P.Eng, British Columbia, 1995 Coordinator- Civil Engineering Alternate Studies and Assistant Instructor, Civil Engineering School of Construction and the Environment Ken_Zeleschuk@bcit.ca Education Provincial Instructor Diploma, Vancouver Community College, 2004 DiplT, Civil & Structural Engineering Technology, British Columbia Institute of Technology, 1985 Professional Registration AScT, Science Technologists and Technicians of British Columbia Instructor, Civil Engineering School of Construction and the Environment qi_zhang@bcit.ca Work Experience Qi is a professional engineer registered in British Columbia and the State of Washington. This is calculated using grades obtained in your first attempt of all courses from Levels 2, 3, and 4, excluding CIVL 4024 and CIVL 4053, but including CHEM 6020 and MATH 6010. Bishnu has been working towards build-back-better reconstruction of Nepal joining team of government and other agencies through expert service, research and technology dissemination. As a student you will be able to securely connect through a web browser to a BCIT managed "virtual desktop" where computing applications for courses will be available. Tiefensee, PMO, MCPM, BCOMM, DiplT: Formula Contractors T. Civil engineers are, to a great extent, the designers, builders and custodians of society's built environment as well as stewards of the natural environment. We'll send you an e-mail when a new message is posted. The majority of students put in at least another 15 to 25 hours per week studying and working on assignments and projects. Education PhD, Civil Engineering, University of British Columbia, 2014 MASc, Civil Engineering, University of British Columbia, 2007 BASc (Honours), Civil Engineering, Bangladesh University of Engineering and Technology, 2003 Professional Registration Applying for P.Eng., British Columbia Instructor, Civil Engineering School of Construction and the Environment Michael_Baumert@bcit.ca Work Experience Michael Baumert has provided design consultation services for major horizontal directional drilling crossings since 2003. For specific direction on entry to Level 5, please see Continuation Requirements.Engineering Transfer StudentsIf you have completed equivalent engineering-related courses (e.g. within an engineering transfer program), you may be eligible to apply for transfer credit. Peddie, P.Eng., JJM Construction Ltd. Note: The September 2022 intake is now closed for new applications. Phyllis enjoys human interaction – in particular, attending professional conferences and building and fostering relationships. We recommend that you submit your application early. If the number of those seeking to enter Level 5 exceeds available seats, BCIT will select those deemed to have the best opportunity for success. Students who meet the continuation requirements and successfully complete a further two years of full-time study will earn a BEng in Civil Engineering. Tara, P.Eng.: Thurber Engineering Ltd. It's important to watch for these e-mails or regularly check your account online. Really successful students are more likely to put in an additional 30 to 40 hours per week. K. Competitive entry: if the number of applicants exceeds available seats, BCIT will accept those deemed to have the best opportunity for success. Visualize simple objects in three dimensions (do you have good spatial skills?). You'll significantly improve your chances of success in the Civil Engineering program if you come prepared. At a minimum, you should be able to: Write a simple, clear, coherent paragraph that contains few or no grammatical or spelling errors. P. You will also be able to clarify your academic and career goals before making elective decisions in years 3 and 4. What is practical work experience? Kennedy, P.Eng.: Fraser River Pile and Dredge C. The Civil Engineering program at BCIT leads sequentially to two credentials: a Diploma in Civil Engineering conferred after academic year two, and a Bachelor of Engineering in Civil Engineering conferred after academic year four. The program is supportive to those who require English-language training.Note: Only the January TE intake includes the Grade 12 equivalent courses required to meet the BCIT Civil Engineering entrance requirements. Determine areas and volumes of common geometric shapes. We will thoroughly investigate the theoretical foundations of civil engineering science and design topics. Alongside his teaching responsibilities at BCIT, he continues to work part-time as a Field Engineer with Metro Testing Laboratories in Burnaby, BC. Civil technologists are employed throughout the full spectrum of civil engineering related industries. Levels 1-4: You must obtain a final grade of at least 50% before proceeding to the next course, with the exception of the four Communications courses, one in each level, all of which have a passing grade of 65%. Fumagalli-Hui, P.Eng.: Hatch M. The BCIT student outcomes report presents summary findings from the annual survey of former students administered by BC Stats one to two years after graduation. Note: This section does not apply for entry to Level 5 of the program. Please note that such applications are considered based on: Complete applications: you must show proof that you have completed (or are registered in) all requirements to be considered. Convert any quantity from one unit system to another given the appropriate conversion factor. Phyllis has expertise and interest in the design of steel and concrete bridge structures, including various forms such as cable-stayed, suspension, arch, and girder bridges. As a full-time student, you'll learn by being immersed into a structured, highly demanding environment. He has acted as team lead with the Canadian Association of Earthquake Engineering Team for its post-earthquake reconnaissance study of the 2015 Nepal earthquake. If you have questions about continuation into Level 5, please contact the Student Coordinator by email or by phone at 604-451-6854. Application for re-admission into Level 5 of the program where the applicant has taken a break from academic study exceeding two years will be considered on a case-by-case basis. As a Diploma holders, you will be eligible to register as a Graduate Technologist with Applied Technologists and Technicians of British Columbia (ASTTBC) and may apply for registration as an Applied Science Technologist after completing a minimum of two years of relevant work experience. If you wish to return to Level 5 after more than 4 months' absence, you must apply for re-admission to the program. Civil engineers and technologists team together to plan, design, construct and maintain road and rail transportation systems, port and airport facilities, bridges, tunnels, dams, and buildings of all types; water, gas and oil pipelines; energy-generating facilities, water, air and waste treatment plants, to name but a few of their activities in an ever-expanding field of endeavour. Education PhD in Structural/Earthquake Engineering, University of British Columbia, 2013 MEng in Structural Engineering, University of Tokyo, 2002 BEng in Civil Engineering, Tribhuvan University, 1998 Professional Registrations P.Eng., British Columbia Earthquake Engineering Research Institute (EERI)-member Canadian Association for Earthquake Engineering (CAEE) – member Structural Engineers Association of BC (SEABC)- Executive committee member of CSI Instructor, Civil Engineering (On leave until January 2023) School of Construction and the Environment stalukdar1@bcit.ca Work Experience Sudip's interests and expertise are in the fields of construction materials and structural engineering. Burnaby Campus 3700 Willingdon Avenue Burnaby, BC Students exiting the Civil Engineering program after academic year two (Level 4) with a diploma may consider entering BCIT's Bachelor of Technology programs in Geographic Information Systems, Environmental Engineering, or Construction Management.

Definition. In 1961, the Conference of Engineering Societies of Western Europe and the United States of America defined "professional engineer" as follows: A professional engineer is competent by virtue of his/her fundamental education and training to apply the scientific method and outlook to the analysis and solution of engineering problems. Post-graduate courses in stormwater management, noise abatement, transportation and geotechnical are considered an asset; 3 years of experience in an engineering environment, with a preference for 5 years of combined experience in municipal and private engineering environment; Certified Engineering Technologist (C.E.T.) designation through O.A ... Geotechnical Engineering Practice in the Mycenaen Civilization (1600-1100 BC) by Dimitrios Zekkos, John Manousakis, Adda G. Athanasopoulos Reference: Zekkos, D., Manousakis, J., Athanasopoulos, A. (2005), "Geotechnical engineering practice in … Range of compression index C c (Naval Facilities Engineering Command Soil MechanicsDESIGN MANUAL 7.01) . A typical range of the compression index is from 0.1 to 10. Approximate values for homogeneous sand for the load range from 95 kPa to 3926 kPa attain the values from 0.05 to 0.06 for loose state and 0.02 to 0.03 for the dense state. For silts this value is 0.20.

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