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the bcit geomatics engineering technology diploma program is a two year course of study leading to a diploma in geomatics that is nationally accredited the geomatics engineering technology program offers practical skills and a comprehensive theoretical foundation in geomatics enabling you to master the collection analysis and application of spatial data geomatics engineering is a multidisciplinary field that uses different methods like mapping and surveying to collect and understand spatial data helping to solve complex problems related to land infrastructure and resources geomatics engineering is a rapidly developing engineering discipline which focuses on spatial information i e information that has a location the location is the primary factor used to integrate a very wide range of data for spatial analysis and visualization surveying and geomatics professionals measure and map the surface of the earth airspace waterways and establish official boundaries in land while using the latest software satellite sonar 3d scanning and drone technology geomatics is a new term incorporating cutting edge technology in image processing digital photogrammetry remote sensing satellite based global positioning geographic information systems drone based mapping laser scanning surveying and digital mapping btc s associate degree in geomatics includes training in gis autocad and gps skills as well as gain a working knowledge of washington laws and standards related to surveying boundaries and map preparation surveying and geospatial engineering technologists are the architects of the earth s landscape using specialized tools and techniques to map and measure features such as land water and infrastructure learn to read plans determine boundaries place buildings locate underground utilities and design and lay out roadways practise advanced measurement skills using the latest technologies such as autonomous airborne vehicles i e drones and lidar scanners geomatics technology our program is perfect for students interested in utilizing advanced equipment and software such as data collectors total stations global navigation satellite systems receivers 3d scanners unmanned aerial and hydrographic systems and computer aided drafting cad software apply now the geomatics technology program combines practical skills with the knowledge of land and construction surveying you will study both land and construction surveying digital mapping photogrammetry cartography remote sensing and global navigation satellite systems geomatics engineering technology provides education and training in the collection analysis storage distribution and application of spatial data used in land development geomatics engineering technology diploma students in this program acquire a solid background in applied math physics cartography photogrammetry plane surveying geodetic surveying and computer applications blend your knowledge of science and engineering with information technologies to solve complex real world issues such as tracking a vehicle s location within a city or determining land use from a satellite image learn about the geomatics engineering technology programs at bcit which offer a diploma and a bachelor s degree in geomatics explore the topics skills and opportunities in this field of measuring storing and presenting geospatial data ranging from space based measurements of the earth and other planets using radio waves down to micron level observations using lasers and optical techniques the geomatics section forms part of the larger department of civil environmental geomatic engineering geomechanics elucidation of mechanical behavior of ground supporting civil structures geomaterials support all of the civil structures and environments as a ground we would like to show you a description here but the site won t allow us maps 204 this class brings a bunch of subjects together which aren t otherwise taught in the first year courses map scales conversions dms radian etc computer algorithms map contours intro to dominion land survey topographic mappings map symbolism intro to coordinates magnetic declination intro to geoid and spheroid intro to pro the geomatics engineering technology program provides extensive practical skills and a broad theoretical background in land surveying remote sensing gis gps photogrammetry geography and digital mapping

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