

**BCC GEOSPATIAL COURSE ASSESSMENT GUIDELINES AND MODEL 2017-CURRENT. All instructors must complete the tables for their respective sections and hand them in for each semester (i.e. within 5 days of grading the class)**

<p><b>Exercise – Reading Ability:</b>  <b>(1)</b> Difficulty in reading the exercise and understanding it.</p>	<p><b>(2)</b> Is able to relate to some of the technical terms and concepts.</p>	<p><b>(3)</b> Is able to relate to most of the technical terms and concepts.</p>	<p><b>(4)</b> Is able to relate to all of the technical terms and understand concepts related to geospatial technology.</p>
<p><b>Software operating classes:</b>  <b>(1)</b> Difficulty in performing basic operations.</p>	<p><b>(2)</b> Is able to understand the different desktop environments of geospatial software – mapping, cataloging data, connecting remotely to data.</p>	<p><b>(3)</b> Is able to manage and add data, understand layers and formats, interpret data fields and attributes.</p>	<p><b>(4)</b> Has a good command of the G Based software functions and understanding of the software settings, some extensions and environment.</p>
<p><b>Analytical Skills:</b>  <b>(1)</b> Difficulty in understanding spatial concepts, terms and technology.</p>	<p><b>(2)</b> Has a basic understanding of spatial technology and is learning about spatial technology and terms.</p>	<p><b>(3)</b> Is able to perform basic analysis such as geo-processing, overlay and is able to understand changes to the attribute table.</p>	<p><b>(4)</b> Has a good command of different types of spatial analysis such as querying, using the field calculator. Has a good understanding and knowledge of spatial technology.</p>
<p><b>Map Making:</b>  <b>(1)</b> Difficulty in understanding the purpose and use of maps.</p>	<p><b>(2)</b> Has a good understanding of the need for maps but is not clear about map components and data frames.</p>	<p><b>(3)</b> Has a good understanding of map components and data frames.</p>	<p><b>(4)</b> Has an excellent understanding of all map components and data frames.</p>
<p><b>Writing Skills – Lab exercises:</b>  <b>(1)</b> Low level of language and grammar.</p>	<p><b>(2)</b> Is learning to write by using geospatial technical terms?</p>	<p><b>(3)</b> Has average-good command over technical writing using geospatial terms and concepts.</p>	<p><b>(4)</b> Has excellent command over technical writing using geospatial terms and concepts.</p>
<p><b>Quality of answers Lab Manual:</b>  <b>(1)</b> Answers are mostly incorrect and poor writing skills.</p>	<p><b>(2)</b> Answers with fewer mistakes but improved writing skills.</p>	<p><b>(3)</b> Answers are correct and writing skills are good.</p>	<p><b>(4)</b> Excellent answers that show a good understanding of spatial concepts, terminologies and data analytical skills.</p>

## ASSESSMENT GUIDELINES FOR GEOSPATIAL COURSES

**Currently two writing intensive pathway courses in geospatial technology are offered at BCC.**

1. GIS11 Introduction to Geographic Information Systems (GIS) 3credits; 4 hrs.
2. GIS12 Introduction to Remote Sensing (RS) 3credits; 4 hrs.

The courses are taught by a combination of lectures and computer based hands-on exercises (lab work). Students are assessed formally by the following items:-

- i. **Quiz – 20%**
- ii. **Lab Manual Answers – 10%**
- iii. **Final (closed book) written examination – 30%**
- iv. **Lab Report – 40%**

**The course assessment design will take into account all the above assessment indicators. The following sections are determined for assessment:-**

### **THEORETICAL COMPONENT**

**Conceptual Skills:** Students ability to grasp conceptual skills is determined by the answers they submit for quiz, short answer questions and answers on the lab manual. All students are required to submit answers for all the eight (8) Quizzes from week 1-8, and 3 parts on the finals i.e. multiple choice short answer and long answer questions. (**Assessment item/s – i, ii, iii and iv**)

### **PRACTICAL COMPONENT**

**Reading comprehension, ability to understand geospatial data and software operational skills:** Students are required to read the lab manual (exercises 1-14) and complete the hands-on exercises using different types of geospatial datasets and geospatial software. Their success in completing the lab component of the course is judged by submission of lab reports by week 13. (**Assessment item/s – ii, and iv**)

### **ANALYTICAL COMPONENT**

**Analytical Skills:** Students are required to apply analytical skills based on fundamental principles of spatial science. Their analytical skills are indicated by successful completion of hands-on exercises (?---?) which focus on spatial analyses. (**Assessment item/s – ii, and iv**)

### **WRITING COMPONENT**

**Writing Skills:** Technical writing is an important part of this writing intensive course. All students are required to demonstrate their ability to interpret the findings of each lab exercise and succinctly outline that in their lab reports each week. The lab reports must be written without grammatical errors and capture the essence of the goals of each hands-on exercise. It must follow the prescribed **lab format** given out in week 1 to each student via Blackboard.