**Course CheatSheet**

**Mailing List / Group / Discussion Forum:**

Step 1: Follow instructions from http://annajiat.googlepages.com/group

Step 2: Apply for membership at https://groups.google.com/**d/forum**/bucse110fall2018

**Group Email:** bucse110fall2018@googlegroups.com

**Your username and password:** Collect from lab system engineer

**Temporary common username for lab:** fall2018

**password:** fall2018

**Academic Calendar: Regularly follow http://www.bracu.ac.bd/calendar/month/academic-calendar**

**Teacher/Student Resources (TSR):** Start Menu, Run, Type **\\TSR\Fall-2018\CSE\Annajiat** and click OK

To seek help in joining group or in using TSR, ask Lab System Engineer (formerly known as LTO) in any Computer lab or lab teacher.

### Note for students: Join the mailing list / google group in or before your first lab class.

### Course Summary: This course would be an introduction to the foundations of computation and purpose of mechanized computation. Emphasis will be placed on techniques of problem analysis and the development of algorithms and programs. It is 3 credits, so 3 hours of theory classes per week. Topics will include working with computer programs using a Computer Programming Language called “Java”. Students are expected to do a lot of self-practice / homework / assignments in problem solving and program design to reinforce the lecture material.

### Suggested Texts

**Program Design using Pseudo-code and Flowchart:**

1. *More are available at http://library.bracu.ac.bd:9292/cgi-bin/koha/opac-shelves.pl?op=view&shelfnumber=34*

**Programming in Java**

1. *More are available at http://library.bracu.ac.bd:9292/cgi-bin/koha/opac-shelves.pl?op=view&shelfnumber=35*

### How to choose your book

You need to follow two books, one for learning Program Design (Problem Solving), another for Programming in Java to test implementation of problem solving strategies. For the design part, you should start reading “How to Solve It by Computer“ as soon as possible. For programming, I prefer Deitel's book but any book that seems easy to understand for you, is fine. The point is to find a book that is suitable for you and complete it (Usually only one-third of the book is needed for your course). Whatever book you choose to buy, read first few chapters. Bring the book and a list of problems you faced, so that I can help. Ideally, the book should teach JDK 8 (1.8.x) or JDK 9 (1.9.x). A very easy way to understand is, the book should have been published in 2015 or later. Please check BRACU Library (4thfloor, http://library.bracu.ac.bd), New Market, and Nilkhet for books.

**How to get help (or Secrets of doing better than others in your course will do):** Besides my office hours, you will have access to your lab teacher who teaches CSE110 lab. Feel free to meet your lab teacher and ask for appointments for solving all problems that you face in theory / lab / in books / practice materials from TSR. An additional source of help will be available from next month, a Teaching Assistant (TA) also known as “Student Tutor” (ST). The quickest way to get help from your classmates/ ST / theory teacher is to send an email to the email address of your course group. Always try to follow up and communicate with your lab teacher, take note of his/her weekly class schedule/free times and regularly meet the lab teachers and TA for all of your problems.

**Policies:**

* You are allowed to study in groups (preparing solution in groups is NOT allowed) but do not share your work / solutions with others.
* Copying of exams will carry zero or negative mark irrespective of the copier or supplier. This might affect your current, past and future exams as well.
* There will be quizzes after covering a topic. ***Some of them will be sudden quizzes (unannounced).***
* If you lose mark in any quiz/midterm, try to learn that as soon as possible because future ones will require comprehensive knowledge.
* **Unfair means:** I believe in a zero tolerance policy, and students found to be adopting unfair means of any kind will be severely dealt with.

**Important Dates:**

Check Academic Calendar from

http://www.bracu.ac.bd/calendar/academic-calendar

**Some Quizzes**

**Week 6:** Mid-term exam on nearby Fridays/Saturdays and Review, 26 October

**Some Quizzes**

**Week 13:** Dec 12, WED, Classes of the semester end

List of reading materials for Deitel's Java, How to program, 9th Edition book (Early objects version).Try to do exercises. Skip topics marked Optional in the table of contents. Do not skip the Wrap-Ups. If you would like to use a different book (or 10th edition of Deitel), please feel free to see me with your book so that I can suggest what to read and what to skip. For CSE110 syllabus read:

* 1.5 to 1.6, 1.9 to 1.10, 1.13 to 1.14
* 2.1 to 7.13
* 8.1 to 8.13
* 16.1 to 16.3
* 17.1 to 17.4
* 18.1 to 18.6
* 19.1 to 19.2.1, 19.3 to 19.3.2
* Appendix A to E
* Use of printf, Appendix G
* Appendix M, O

Good Luck with the course! ☺