COURSE OUTLINE

Course Code: CSE 464

Course Title: Computational Geometry Sessional

Level/Term: 4/II **Section: A/B**

Academic Session: 2016-17

Course Teacher:

Name:	Office/Room:	E-mail and Telephone:
Md. Ishat-E-Rabban (IER)	CSE – 216	ieranikg@gmail.com
Shareef Ahmed (SAT)	CSE – 214	shareef.tamal@gmail.com, +8801675406187

Course Outline:

Laboratory works based on CSE 463.

Learning Outcomes/Objectives:

After undergoing this course, students should be able to:

i. Implement the algorithms in the course

ii. Verify the correctness and theoretical complexity of the algorithms in the course through empirical analysis

iii. Increase their coding skill for implementing sophisticated algorithms

iv. Develop their own algorithms for solving computational geometric problems

v. Apply the problem solving and coding skill acquired in the course to solve real-world problems

Assessment

Lab Evaluation (Online):	20%-30%
Home Assignment (Offline):	35%-50%
Attendance:	0-5%
Lab Quiz:	20%-30%

Learning Resources:

a. Computational Geometry in C, 2nd Edition, Joseph O'Rourke

b. Computational Geometry: Algorithms and Applications, 3rd Edition, Mark de Berg, Otfried Cheong, Marc van Kreveld, Mark Overmars

c. Planar Graph Drawing, Takao Nishizeki, Md. Saidur Rahman

d. Computational Geometry Lecture Notes, David M. Mount

e. Data Science Tutorials, https://www.topcoder.com/community/data-science/data-science-tutorials/

Weekly schedule:

Week	Topics	Teacher's Initial
Week 1,2,3	Introduction	IER, SAT
Week 4,5	Evaluation of Assignment-1	IER, SAT
Week 6,7	Evaluation on Assignment-2	IER, SAT
Week 8	No Class	None
Week 9,10	Evaluation of Assignment-3	IER, SAT
Week 11,12	Evaluation of Assignment-4	IER, SAT
Week 13	Quiz	IER, SAT

Prepared by:	
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