

Course Title	()	()	Data Structure and Lab
--------------	-----	-----	------------------------

() Lecturer	()	/ / (Course No. /)	009952/ /4
(/HP) Contact No.	02-6935-2671	/ (Class Hour/Venue)	Mon/Wed 13:30-15:00, Wed16:30-18:30
(Course Prerequisite)	C Programming and Lab, Advanced C Programming and Lab	(Target Student)	Undergraduate Students in School of Intelligent Mechatronics Engineering
E-mail (E-mail Address)	ykchoi@sejong.ac.kr	/Office Hour (Office/Office Hour)	(601) Please, email me.

(Objectives)	1) Understanding basic concepts of data structure 2) Learning how to design and implement data structure 3) Understanding various abstract data structure used in programming 4) Implementing data structure in C (programming practice)		
(Competencies related to this course)	<input checked="" type="checkbox"/> (Logical and Critical Thinking) <input type="checkbox"/> (Creative and Convergent Thinking) <input type="checkbox"/> (Self-management Competency) <input checked="" type="checkbox"/> (Problem Solving Competency) <input type="checkbox"/> (Communication Competency) <input type="checkbox"/> (Global Competency) <input type="checkbox"/> (Community Competency)		
CQI (Continuous Quality Improvement Plan)	- OJ		
(Text book)	Textbook: () , 21 Reference : C C C		
(Assignment book)	If you find it difficult to implement in the C programming, I encourage you to read reference books.		
(Assignment)	Programming Assignment (in C programming) Assignment 1: Recursion Assignment 2: Array Assignment 3: List Assignment 4: Stack or Queue Assignment 5: Tree		
가 (Course Grading)	[가] (%) : 30, (%) : 35, 가 (%) : 25, (%) : 10,		

(:)

(Week)	(Course Contents)	(Etc.)	
1	Introduction and C language Review	Lecture and Lab	
2	1. Algorithm Analysis	Lecture and Lab	
3	2. Recursion	Lecture and Lab	Assignment 1
4	3. Basic Data Structure	Lecture and Lab	
5	4. List (1)	Lecture and Lab	Assignment 2
6	4. List (2)	Lecture and Lab	
7	5. Set	Lecture and Lab	Assignment 3
8	Midterm Exam	Exam	

(:)

(Week)	(Course Contents)	(Etc.)	
9	6. Stack (1)	Lecture and Lab	
10	6. Stack (2)	Lecture and Lab	
11	7. Queue	Lecture and Lab	Assignment 4
12	8. Tree (1)	Lecture and Lab	
13	8. Tree (2)	Lecture and Lab	Assignment 5
14	8. Tree (3)	Lecture and Lab	
15	9. Disjoint Set	Lecture and Lab	
16	Final Exam	Exam	

<p>가 1 (Additional Guide1)</p>	<p>()</p> <p>Students who require special assistance (including special needs students) may contact their professors during the first week of the semester to discuss issues related to attendance, lectures, assignments and exams and request learning assistance.</p> <hr/> <p>0) Lecture sites - Do no use Blackboard - https://github.com/sejongresearch/2020.Spring.DataStructure</p> <p>1) Lesson method - Lecture (3 hours per week): lecture class focusing on textbook - Lab (2 hours per week): Implement data structure learned in the lecture class</p> <p>2) All lectures, exercises, and assignments are follow the contents of the main textbook.</p> <p>3) Exercises and assignments in C programming</p> <p>4) Assignment and examination - Assignment will be conducted 5 times by the university's guidelines - Exam will be written by handwriting and coding (practical)</p> <p>5) Attendance: If the attendance is 1/4 or more absent from the FA</p>
<p>가 2 (Additional Guide2)</p>	<p>1) I highly recommend reviewing C programming before opening class. - Array, pointer, structure, and function are essential for data structure</p> <p>2) Be sure to attend the opening class - I will explain the outline and direction of lecture, how to submit the assignment.</p>