

Code	440111020A			
Course Title	Scheduling Algorithms			
Lecturer	Shigeru Fujimura			
Day and Period	Tue. 6th period（18：55～20:35）， Watch the on-demand video before the starting time of this class			
Room	(S101)			
Field	Information Architecture Field / Advanced Subjects			
Semester	Spring			
Credits	2			
Language	E/J			
Description	For production management, the scheduling for product manufacturing is the most important work. The scheduling problem is to decide how to make products. The task to maximize corporate profit through production management is still a very difficult one. In this class, the basic scheduling algorithms and recent technologies are introduced, and using actual examples from factories, several kinds of approaches are discussed.			
	前半50分（18:55-19:45） S101	1st Section: 50 mins, S101	後半50分（オンデマンド）	2nd Section: on-demand
4/15 第 1 週	オリエンテーション	Orientation	① プランニング・スケジューリングとは	① Production Planning And Scheduling
4/22 第 2 週	①に対する質疑応答・演習の実施	① Q&A and exercise for on-demand class	② 生産管理	② Production Management
4/29 第 3 週	休講			
5/ 13 第 4 週	②に対する質疑応答・演習の実施	② Q&A and exercise for on-demand class	③スケジューリング問題をどのように解くか	③ How to Solve Scheduling Problems
5/20 第 5 週	③に対する質疑応答・演習の実施	③ Q&A and exercise for on-demand class	④ 生産計画アルゴリズム(1)	④ Production Planning Algorithm (1)
5/27 第 6 週	④に対する質疑応答・演習の実施	④ Q&A and exercise for on-demand class	⑤ 生産計画アルゴリズム(2)	⑤ Production Planning Algorithm (2)
6/ 3 第 7 週	⑤に対する質疑応答・演習の実施	⑤ Q&A and exercise for on-demand class	⑥生産計画アルゴリズム(3)	⑥ Production Planning Algorithm (3)
6/10 第 8 週	⑥に対する質疑応答・演習の実施	⑥ Q&A and exercise for on-demand class	⑦生産スケジューリングアルゴリズム(1)	⑦ Production Scheduling Algorithm (1)
6/17 第 9 週	⑦に対する質疑応答・演習の実施	⑦ Q&A and exercise for on-demand class	⑧生産スケジューリングアルゴリズム(2)	⑧ Production Scheduling Algorithm (2)
6/24 第 1 0 週	⑧に対する質疑応答・演習の実施	⑧ Q&A and exercise for on-demand class	⑨生産スケジューリングアルゴリズム(3)	⑨ Production Scheduling Algorithm (3)
7/ 1 第 1 1 週	⑨に対する質疑応答・演習の実施	⑨ Q&A and exercise for on-demand class		
7/ 8 第 1 2 週	商用生産管理システムとスケジューリングシステムの説明	Production Management and Scheduling System in Actual Production		
	課題の説明	Explanation of Exercise		
7/ 15 第 1 3 週	発表	Presentation		
7/22 第 1 4 週	試験	Examination		
Evaluation	Quiz in the class 10% Submitted reports 30% Attendance of the class 10% Presentations 10% Examination 40%			

<<How to conduct this course>>

The Interactive Session in this lecture will begin at 18:55 on Tuesday.

In the Interactive Session, you can ask some questions,  
and I will ask you a few questions and give you a quiz to test your understanding.

An on-demand video is provided in the previous class.

You have to watch the on-demand video before the class.

After watching the video, you will attend the Interactive Session.

Interactive Session will be finished about 19:45.