

## SKAA 1513 – Fluid Mechanics

### Preface

Fluid Mechanics is the study of fluids under conditions of rest and under motion. It usually offered as a basic requirement for civil and mechanical engineering program in most universities. In civil engineering, fluid mechanics is the basic or fundamental concept used to solve several water engineering problems such as water supply, flood control, irrigation, drainage, erosion, hydraulics of river flows, hydrology, hydro electric power production, study of wind impact on buildings and bridges, etc.

This lecture notes is presented in such a way to ease the students to refer the theoretical aspect of fluid mechanics. Besides this lecture notes, the students are advised to refer to other related textbooks to strengthen their knowledge in fluid mechanics. The content of this lecture notes will be updated from time to time. Therefore, the students are advised not to use the out of date edition. Ask the author about the latest edition.

The learning outcomes of each chapter are listed at the beginning of each chapter. Problem solving examples are not included in this lecture notes, but will be given and solved during the lecture hours. The students are expected to attend each single lecture hour so that they can understand the subject matter in depth. To strengthen the students' problem solving skill, several related problems are provided during the class sessions and the students are expected to solve all problems and check their calculations with the answers provided. However, if the students face any problem solving the exercises, they are advised to consult Mr. Amat Sairin Demun.

Hopefully this lecture notes will help the students to fully understand the subject of fluid mechanics and to guide them to be good practicing civil engineers. Yes.. Yahoo!

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