

2018학년도 1학기 교수계획표

| | | | | | |
|------------------|--|-----------------|---------|----------|-----------------|
| 교과목명 | 선체저항 | 교과목번호 | N025008 | 분반 | 001 |
| 개설학과 | 조선·해양공학과 | 개설학년 | 3 | 학점-이론-실습 | 3.0 - 3.0 - 0.0 |
| 강의시간 및 강의실 | 화 09:00(75) 206-11205, 목 09:00(75) 206-11205 | | | | |
| 담당교수 | 이인원 | 연구실 (상담가능장소) | | 상담시간 | |
| | | 연락처 | | 이메일 | |
| 수업방식 | 강의 100% | | | | |
| 평가방법 | 중간고사 15%, 기말고사 15%, 보고서 40%, 발표 25%, 출석태도 2%, 퀴즈 3% * 장애학생의 경우 시험시간의 연장이 가능하며, 대필이나 컴퓨터를 활용하여 시험에 응할 수 있습니다. | | | | |
| 선수과목 및 지식 | | | | | |
| 교수목표 | 1.Understanding the physics and basic theory of ship resistance 2.Analysis of wave making resistance, knowledge of relationship between hull form design and resistance together with hull form optimisation 3.Understanding the full scale ship power and speed prediction from model ship test 4.Understanding the frictional resistance and mechanism of drag(frictional) reduction 5.Understanding the type of high speed ships together with hull form characteristics | | | | |
| 강의개요 | Based on the understanding the physics and basic theory of ship resistance, teach the knowledge of wave making resistance, relationship between hull form design and resistance together with hull form optimisation, the full scale ship power and speed prediction from model ship test, the frictional resistance and mechanism of drag(frictional) reduction and finally the type of high speed ships together with hull form characteristics. * 장애학생의 경우 장애학습지원센터와 강의 및 과제에 대한 사전 협의가 가능합니다. | | | | |
| 교재 및 참고자료 | | | | | |
| 주교재 | 선박의 저항과 추진 (전호환, 김문찬, 이인원 공역), 텍스트북스 | | | | |
| 참고자료 | 부교재1:선체저항, 전호환 저 부교재2:Ship Resistance and Propulsion, Molland 외 공저, Cambridge University Press 부교재3:강의노트 : 사이버강의실 (http://linkus.pusan.ac.kr/) 관련웹: http://mhcl.naoe.pusan.ac.kr/ | | | | |

| 주별 강의계획 | | |
|---------|--|---|
| 주차 | 강의 및 실험 실기 내용 | 과제 및 기타 참고사항 |
| 제1주 | [표절, 시험 부정행위 예방교육 및 실험·실습 안전교육 실시] Introduction | Home study for Fortran programming, Matlab, Excel |
| 제2주 | Text Ch. 2 Propulsive Power Text Ch. 3 Components of Hull Resistance | Preliminary study for Term project I |
| 제3주 | Text Ch. 3 Components of Hull Resistance | Preliminary study for Term project I |
| 제4주 | Text Ch. 4 Model-Ship Correlation | Term Project I Full scale resistance estimation from the model test data for a 990ton training ship by 4 methods |
| 제5주 | Ref. Ch. 3 Frictional Resistance and Viscous Resistance | Term Project I Full scale resistance estimation from the model test data for a 990ton training ship by 4 methods |
| 제6주 | Ref. Ch. 3 Frictional Resistance and Viscous Resistance | Term Project I Full scale resistance estimation from the model test data for a 990ton training ship by 4 methods |
| 제7주 | Ref. Ch. 3 Frictional Drag Reduction by Turbulence Control | Preliminary study on Matlab preparing for Term project II |
| 제8주 | Mid term examination | Preliminary study on Matlab preparing for Term project II |
| 제9주 | Ref. Ch. 4 Wave-making Resistance | Preliminary study on Matlab preparing for Term project II |
| 제10주 | Ref. Ch. 4 Wave-making Resistance | Term Project II Lines drawings by computer for 7 Wigley Hulls by L, B and D variation and wave-making resistance calculation |
| 제11주 | Ref. Ch. 6 Regression Estimation Text. Ch. 5-6 Speed Trial & Restricted Water Depth | Term Project II Lines drawings by computer for 7 Wigley Hulls by L, B and D variation and wave-making resistance calculation |
| 제12주 | Text Ch. 10 Resistance Design Data | Term Project II Lines drawings by computer for 7 Wigley Hulls by L, B and D variation and wave-making resistance calculation |
| 제13주 | Text Ch. 10 Resistance Design Data | Term Project III Estimation of full scale resistance and power for 48k Bulk Carrier by a regression analysis |
| 제14주 | Text Ch. 14 Hull Form Design | Term Project III Estimation of full scale resistance and power for 48k Bulk Carrier by a regression analysis |
| 제15주 | Ref. Ch. 8 High speed ship | Term Project III Estimation of full scale resistance and power for 48k Bulk Carrier by a regression analysis |
| 제16주 | Final Exam | |

첨부파일