Course Basic Information

Close

Year	2023	Term	2nd Semester	Course Code	ELEC0332-002	Course Title	Automatic Control
Credits	3-3-0	Department	College of IT Engineering School of Electronics Engineering	Course Categories	Major	Classroom Language	English
Instructor	벨루볼루칼리아나차크라바르띠	Class Time	Sat. 1A,1B,2A Sat. 2B,3A,3B	Classroom	IT대학1호관(공대10호관) 109		

Office& Office Hours	Friday 3 pm - 5 pm; Email for appointment.
Talent Model of department	• 실무에 뛰어난 전공분야 전문가 • 새로운 기술적 변화에 대처할 수 있는 창의적, 융합형 전문가 • 타인과 소통하고 협업하는 리더형 전문가
Educational objective of department	• 학습한 전자공학 지식을 적재적소에 적용할 수 있는 실무형 전문가 양성 • 빠르게 변화하고 발전하는 ICT 기술에 대처하고 새로운 방향을 제시할 수 있는 창의적, 융합형 전문가 양성 • 타인과 소통하고 협업하여 주어진 문제를 효율적으로 해결할 수 있는 리더형 전무가 양성

General Information	Core Competencies	Evaluation Methods	Support Available for Disabled Students	Course Content and Schedule	Course Evaluation

General Information

* Course Outline (1093/18000byte)	Analysis of linear control systems using transfer functions. Controller design and applications for linear systems. Applications will be taught in Matlab. This course is an introduction to analysis and design of feedback control systems, including classical control theory in the time and frequency domain. Modeling of physical, biological and information systems using linear and nonlinear differential equations. Stability and performance of interconnected systems, including use of block diagrams, Bode plots, Nyquist criterion. Homework and assigments are focused on analytical techniques for design and synthesis of control systems.
* Prerequisites (64/1000byte)	Good background in Engineering mathematics and Electric Circuits
Recommended Subsequent * Course (39/1000byte)	Circuit Theory, Engineering Mathematics

	Search Input	No	* Book Name	* Author	* Publishing Office	* Publishing Year	* ISBN	* Book Section
Textbook & Other * References				조회된 데이터가 없습니다.				
	Directly Input	(269/18000byte) 1)"Modern Control Systems" by R. C. Dorf, R. H. Bishop, Prentice Hall, 12th Edition, 2011 2) Automatic Control Systemsª Golnaraghi & Kuo, Prentice Hall, USA, 9e, 2010. References:					

Notice to * Students (228/18000byte)	This course is a basic level course and requires good attendance for understanding. If you are absent for more than 2 lectures consequetively it will effect your performance. Solving of exercises is compulsory for understanding