

	2025		1		DISU412		01
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	DISPLAY						
	(14:00 15:15) -						
E-Mail	CHOISS@POSTECH.AC.KR			Homepage	HTTPS://CSSPOSTECH.WIXSITE.COM/CSS1		
					054-279-2228		
Office Hours	Tudesday 2PM 5PM, Wendday 10AM 5PM, Thruday 2PM 5PM, Friday 9 AM 10AM						

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OLED, Flexible Display							
Transistor , , ,							
가 .#							
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Thin Film Transistor, Organic Light Emitting							
, TV OLED	, Flexible	Plastic OLED	, Touch	Sensor	LCD	Switching	
Mode	Display	Non Display	.				
	, TFT, OLED, Flexible						
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Recent display field, which is so called the window of informatization, is rapidly evolving in technologies in terms of OLED and flexible displays, thin film transistor (TFT) technology related to semiconductor technology, Touch device and sensors. Also, display is convergently maipulated in machine learning technology in terms of picture quality enhancement. From this p oint of view, it is crucially important to understand the technical evolving trend in display and core technical field in di splayu device , process ,driving, interface and materials. #							
In realtion with syster course of display engineering 1 which coversrs the display overview and optical aspects, this couse i s amined to understand key technical areas of practical current displays in terms of thin film transistors and organic light ing, organic light emitting priciples, TV OLED device and process, flexible and plastic OLED technology, touch technology, se nsor technology,LCD mode technolgi for wide viewing angle and fast optical switching and non-display application of display							

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convergence. From this course, studentns are supposed to understand key technical fields of display such as TFT, OLED, Flexib le and Touch technologies in terms of device, process, materials and as results student can apply display technology and con vergent technical points.							
/							
N/A, Recommend Display Engineering 1. # 1 (Not Mendatory)# (1 가)							
가							
1. (Mid Term Report) 20%# # 2. (Term Work & Discussion) 20%# # 3. (Final Exam) 40%# # 4. (Attendance) 10%# # 5. (Attitude, Activity in Class) 10%							
						ISBN	
1. Flat Panel Display Manufacturing (WILEY)# Jun Souk, Shinji Morozumi, Fang-Chen Luo, Ion Bitu (Eds.)# # 2. Flexible Flat Panel Displays (WILEY)# Gregory Crawford (Ed.)#							

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3. / / #							
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4. OLED Display : Fundamentals and Applications by Hoboken, N.J : Wiley 2012							
Week 1: Introduction of Course / Recent Display Trends#							
Week 2: Display Quality Factors #							
Week 3: Liquid Crystal Basics / Term-Report Discussion #							
Week 4: LCD Basics#							
Week 5 :TFT Basics#							
Week 6: TFT Process#							
Week 7: Organic Light Emission Basics#							
Week 8 : Mid-Term Report #							
Week 9: Organic Light Emission Basics#							
Week 10: OLED Device Process Basic #							
Week 11: Flexible Display#							
Week 12: Emerging Display#							
Week 13: Term Presentation & Discussion (1)#							
Week 14: Term Presentation & Discussion (2)#							
Week 15: Term Presentation & Discussion (3)#							
Week 16: Final Exam & Summary Lecture							
(Therotical Lecture and introduction of updated practical appliations) #							
(Group work with Term PJTs and Discussion with presentations)							
(, , ,) 가 #							

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Display is covnegent technogy and this course is recommended not only for students in electronics but also for students in m

aterial sceince, chemical enginenering, physics and chemistry.#

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For ther better understandings of students additional korean explanaitons can be used