
2015 New Convergence Technology Camp & Enjoyable Design Project Competition

1 The Objectives of Program

1. Enhancing the ability of applying New Convergence Technology through intensive engineering design camp
2. Fostering creativity & convergence of Engineer through the convergence technology design project
3. Making Playful Engineering Ecosystem to experience the whole process of Engineering Design through maker movement and design thinking

2 Operation of Program

1. Lecture and practice of Arduino Digital & Analog input/output microprocessor
2. Internet Of Things, Design and Practice
3. Enhancing Creative Problem Solving Skills by Educating Engineers with Design Thinking / Arduino microprocessors
 - Team: About 10teams(Students work in teams of 6 members)
4. **Subject: Make an artifact which simulate the movement of animals such as Fish, Snake, Dog, Cockroach, Bird, and Control it with Smart-Phone (using MIT app inventor)**
 - 1day(12.28.): Lecture and practice of Arduino
 - 2day(12.29.): Lecture of Design Thinking, Prototyping, Concept Design Presentation and production
 - 3day(12.30.): Demonstration & Final presentation, Award
5. Managing Department
 - Auspice: Yeungnam University Hub Center for Engineering Education
 - Supported by: Ministry of Trade, Industry & Energy,
Korea Institute for Advancement of Technology

3 Promotion of a Program

1. Date: 2015. 12. 28.(Mon) ~ 12. 30.(Tue)
2. Place: Suite Hall, Suite Hotel, Gyeongju, Gyeongbuk, Korea
3. Participants: about 60 students (may be more with foreign students)
4. Program Schedule

Time table	12.28.(Mon)	12.29.(Tue)	12.30.(Wed)
07:50~08:50		Breakfast[b]	Breakfast[b] 08:50 & Turn in presentation material
09:00~10:00		09:00~11:00 Lecture of Design Thinking -Empathy /Define /Ideate /Prototype /Test- (quick & dirt prototype) (120min)[a]	09:00~10:40 Demonstration & Final presentation[a] (100min)
10:00~11:00			10:40~11:30 Evaluation/ Release the result of survey
11:00~12:00	11:00~12:00 Enrollment	11:00~12:00 Empathize, Define Problem, Prepare for Concept Design Presentation [a]	11:30~12:00 Award&Closing
12:00~13:00	12:00~13:30 Lunch[a*]	12:00~13:00 Lunch[b]	12:00~13:00 Lunch[b]
13:00~14:00	13:30~14:00 Opening & orientation	13:00~14:30 Ideate, Prototype, Prepare for Concept Design Presentation [a]	*[a] Suite hall 2B *[b] Laterras 1F
14:00~15:00	14:00 Lecture I (120min)[b*] (Subject: Arduino)	14:30~15:15 *Concept Design Presentation (45min)[a]	
15:00~16:00	16:00~16:15 Break time	15:15~15:30 Break time	
16:00~17:00	16:15~18:15 Lecture II (120min)[a] (Subject: Arduino)	15:30~18:30 Production by using Arduino I (180min)[a]	
17:00~18:00	18:15~18:30 Move to the restaurant		
18:00~19:00	18:30~19:30 Dinner[b]	18:30~19:30 Dinner[b]	
19:00~20:00			
20:00~21:00	19:30~21:30 Lecture III(120min)[a] (Subject: Arduino)	19:30~23:00 Production by using Arduino II (210min)[a]	
21:00~22:00			

22:00~23:00	22:00 Move to room & Go to bed		
23:00~		23:00 Move to the dormitory & Go to bed	

5 Notice to Participating Students

1. Preparation: personal notebook, digital camera(or smart phone), ballpen, other material for the camp, personal toiletries, and personal items

※ Following programs need to be downloaded before participation

Arduino download : <https://www.arduino.cc/en/Main/Software>

Processing Download: <https://www.processing.org/download/>

2. Do not possess expensive items, personal belongings need to be kept by himself, and individual action need to be refrained.

3. Team should behave responsibly centered with team leader.

4. Room: 4 mans in a hotel room

5. Participants need to prepare transportation by themselves except foreign participants.

※ However, there will be one shuttle bus from Yeungnam University to Suite Hotel.

2015.12.28.(momday) 09:00 departure

(announce it later)

6. Safety concerns

- Always be careful when you are using scissors, knives for making products
- Any activities not related with camp subject need to be refrained.
- Any explosives, burnable materials should not be used at any circumstance.
- If you experience any injuries during the camp, immediately report to administrative staffs.

6 위치 및 교통

가. 경상북도 경주시 보문로 280-12 스위트호텔 경주(드림센터 옆)



위치	경주 보문관광휴양지 내 위치 (한화리조트에서 현대호텔로 내려오는 길 가운데 우측편에 보문골프장 옆으로 위치)
주소	경상북도 경주시 보문로 280-12
교통편	승용차 이용 시 경주 IC - 서라벌대로 - 보문로 - 스위트호텔 경주(드림센터)
	버스 이용 시 구간 : 경주고속버스터미널 맞은편 승강장(시내버스 10번) - 보문단지(스위트호텔 경주/드림센터 하차) * 시내버스 10번, 16번, 700번(일일 56회 운행, 20분 소요)
	KTX 이용 시 신경주역 승강장 700번 버스 보문단지 스위트호텔 경주 하차 (일반 기차 이용 시 경주역 맞은편 승강장 10번, 16번, 18번, 700번 버스 보문단지 스위트 호텔 경주 하차)
문의	054)778-5300