

ASSIGNMENT
DACS 1232 – CHEMISTRY
SEMESTER 2 2016/2017

WALKING ROBOT



TASK

Develop a walking robot powered by 9V battery.
Min 2 legs, Max 6 legs (No wheel allowed). Must have on-off switch.
Make a short video (2 min \pm 5 sec) and post it on **YouTube**.
Format: MP4, min 720p (HD).

GROUP

6-7 students/group

MATERIALS

Robot must be made by using at least 80% of waste materials (Eg. plastic, paper, etc).
The design's concept is based on your own creativity.
All materials must be provided by students.

ROBOT SIZE (Main Body)

Length: min 10 cm to max 15 cm

Width: min 6 cm to max 10 cm

Height: min 15 cm to max 20 cm

MARKS

Product = 20%

Video = 20%

Race = 10%

PRODUCT

1	Idea & Functionality (Creative, original and function)	10 marks	20%
2	Materials (80% recycle materials)	10 marks	
3	Design (Follow specs and size, excellent product quality)	10 marks	

VIDEO

1	Content arrangement	10 marks	20%
2	Attractive idea, Interesting & Informative	10 marks	
3	Time management (2 min \pm 5 sec)	10 marks	

RACE (1 – 2 meters)

Rank	Marks
Champion	10
2	9
3-4	8
5-8	6
9-16	4

BONUS

Best Product: 2 marks

Best Video: 2 marks

Race Champion: 2 marks

YOUTUBE VIDEO TITLE

UTeM Walking Robot Project: Group Name
Eg. **UTeM Walking Robot Project: IMSYMO**

VIDEO CONTENT

Group Name

Methodology

Idea, Drawing, Materials used, Walking Mechanism,
Developing process, working product

Group Photo

Submit your YouTube link to:

imran@utem.edu.my

before **22.04.2017, 11.59 pm**

*Please double check your YouTube link
and make sure it's valid and can be watch directly
from YouTube Channel.