



**Message from Head of Department Rosana Barkawi:**

Welcome to the first issue of Engineering Diploma News. This publication will serve to inform and highlight some of the academic events that engineering students and instructor gets engaged in outside the normal classroom activities. This newsletter will cover events and news happening during each semester. I would like to encourage students to participate in this publication by sending articles that may be of interest to the rest of the college. For any questions and/or suggestions please contact Ghadeer Mourtaja and Jonathan Stegen.

### Internship at Jaber Al-Ahmed Hospital Project

**Written by Brian Paiva, Sammy Najjarine, Omar Taha, Ziad Abu Hamdieh:**

Interning at a highly respected construction project is the best experience a civil engineering student could ask for. We were given this opportunity by ACK at the Jaber Al Sabah Hospital Project. Our internship commenced on the 6th of Feb. And from day one, the owner's representative and Project Manager, Engineer Ali Nadom advised us to be unhesitant whenever we wanted to learn anything. We were assigned various tasks during the course of the internship. Also, what's interesting was that we were able to see in person what actually was being taught in our textbooks. It was a month wisely and effectively spent.



Words cannot express our gratitude enough. We have been very privileged to have got this work experience.

It has changed our perspective on the field of civil engineering. A big thank you to the Engineering Department of ACK for having made this experience possible.

### Guest Lecturer – Engineer Ahmed Al-Hussaini

**Written by Lama Shehabeddin**

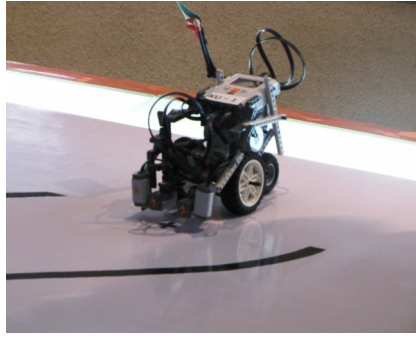
As part of enhancing learning for ACK students. It is beneficial to have speakers for specific topics of the Engineering Diploma Curriculum. Therefore, Engineer Lama Shehabeddine, an Engineering Instructor, invited a lecturer from Al Jazeera Consultancy Engineer Ahmed Al Hussaini (Project Manager) as a guest lecturer for the basic construction material to talk about certain topics in his field

of experience such as the relevant standards, codes and regulations required for the design and construction of low-rise buildings in Kuwait. He also spoke about the relevant government authorities involved in the approval of buildings and services and the structural components, their elements and functions. The visit was very beneficial to the students.



## Robot Competition by John Florescu

Three teams from ACK participated in the First National Robotics Competition of Kuwait Colleges and Universities. The objective of the competition was to build a LEGO robot that could navigate an obstacle course in the quickest time. The team from Diploma who consisted of Hussain Al-Hassan and Abdulrahman Alawadi did exceptionally well. They managed to come first in the preliminary rounds eliminating the other teams but unfortunately they had to retire from the competition due to mechanical



failure. The rules of the competition disallowed repairing of robots during the competition. Hussain Al-Hassan is to be especially congratulated for excellent work on programming and building the robot.

## O&G Work Shop By Sana'a Al-Yaqoub

On Thursday 2nd June, Semester 4 Oil & Gas held an open workshop representing different projects and concepts to the college. There were five projects in all, ranging from the history of Oil in Kuwait to Off-shore Drilling and Seismic Exploration. The presentations showed the depth and knowledge of ACK students. It was a very successful workshop with many students and lecturers attending.



## Project Based Learning at ACK

This semester ACK Engineering has for the first time introduced Project Based Learning (PBL) within the Mechanical Engineering curriculum. Semester 3 Mechanical students have been designing and building go-karts which they will hopefully be racing at the end of semester 4. The concept behind Project Based Learning is to incorporate many subjects taught within Diploma engineering into one large project. For semester 3 students they will learn the theory of engineering design, teamwork, project management and how to create a budget for a project. For semester 4, students will have to assemble the engine, clutch system, brakes, tires and roll cage. Students, within teams, have to design, document and build a racing go-kart from scratch. Eventually the teams will race their go-carts against each other to see whose is the fastest and most reliable. This Project Based Learning was organised and implemented by Instructors Danie de Bruin, Robin Killner and Jonathan Stegen.



## Accomplishment for Engineering Diploma Academic Year 2010-2011

- September 2010, Engineering staff attended a Basic OH&S course conducted by 'The Induction Center'
- ACK Open Day on Nov 30, 2010. High School students visited engineering facilities.
- Instructors Danie de Bruin and Jan Grobbelaar and their students volunteered to build go-karts in support of the REUSE event.
- Instructors Susan Barakat and Yaser Al-Omari visited the KNPC Kuwait National Petroleum Co. with S3 Oil & Gas.



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