

2021-2022

Civil and Architectural Engineering Department Newsletter



Issue 9

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Message from Head of the Department

Dr. Mohammed Hussein
BSc (Hons) PhD (Cantab) MIIAV PGCHE FHEA



It is my pleasure to introduce the newsletter of the academic year 2021-2022 of the Department of Civil and Architectural Engineering at the College of Engineering in Qatar University. During this academic year, the Department continued its great effort in running and developing its underground and postgraduate programs, besides leading high-quality activities in interacting with the industry and serving the community.

During the year 2021-2022, the Department continued the effort to develop its programs and support its students. The Department went through a new Mock ABET review for the undergraduate program in Civil Engineering. It also went through a visit to renew the ISO-17025 certification of the lab testing in Construction Materials. The Department continued the effort to highlight the new program in Engineering Project Management besides submitting new programs in other areas in Civil Engineering. The Department also continued to arrange interactions for the students with the industry through invitation of industrial speakers in classes and organizing industrial workshops. The Department also continued its special attention to the topic of Engineering Education including implementation and publication in this field. The applications of two academics from the Department were approved to be affiliated with the Technology Innovation and Engineering Education (TIEE) unit.

The major highlight in research was the listing of Civil Engineering at Qatar University in QS subject ranking in the position 151-200 beside maintaining the position of 151-200 in the Civil Engineering subject in Shanghai subject ranking. Three academics were listed again in the top 2% highly cited researchers. The Department continued to publish high quality publications in top journals beside attracting research grants. A number of students were recognized at different ceremonies in the university for their exceptional research effort and achievements.

The Department continued its strong effort in interacting with the industry. The Department continued its industrial workshops with great student, staff, and industrial audience. One key interaction is the collaboration with the Public Works Authority (Ashghal). During this academic year, the Department developed new collaborations with Ashghal including the establishment of a new Chair position funded by Ashghal in the area of recycled materials, the development of new certificate in Lean for infrastructure construction, and collaboration in laboratories and testing including the involvement of department in Ashghal's inter-lab exercise as conducted by the Quality and Safety Department of Ashghal.

For the outreach activities, the Department with the support of College of Engineering and in collaboration with the National Service Academy, launched the Program of Engineer of the Future for students at the National Service Academy at the beginning of 2022. The Department also organized the Bridge Competition for high school students and supported other activities for outreach for students invited to visit Qatar University as well as by visiting schools in Qatar.

I hope the newsletter gives you a good idea about the Department's activities and news, and I hope you enjoy reading it.

DEPARTMENT NEWS

Program of Engineer of the Future for Students at the National Service Academy

The Department of Civil and Architectural Engineering with strong support from the College of Engineering at Qatar University collaborated with the National Service Academy in the organization of the Program of Engineer of the Future. The program was supported by Qatar Society of Engineers. The aim of the program was to give the students at pre-university stage an idea about Engineering in general and Civil Engineering in particular to encourage them to consider such fields for their future careers. The program was delivered for 30 students at the National Service Academy for a week starting from the 30th of January 2022. The program included hands-on fun activities on Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Surveying, Management and Virtual Reality applications. The program included engagement of the students with one selected successful engineer on every day of the program to have exposure and have idea about the potential future jobs and possible progression in career. The final ceremony was attended by QU President and the President of the academy along with the top management from QU, the Academy, and Qatar Society of Engineers.



Industrial workshops



In the academic year 2021-2022, the CAE Department organized a number of workshops for students, academics and professional engineers from the industry.

Risk Identification and Management process 24-08

Eng. Suhaib Amer, Risk Manager in Roads Program Management in (Ashghal Projects), delivered an online workshop on “Risk Identification and Management process” on August 24, 2021.



Eng. Suhaib Amer
Risk Manager - Roads Program Management
(Ashghal Projects)

Eng. Suhaib Amer has rich experience in Construction projects and Oil & Gas projects. He started work in construction from 2005, and in Oil & Gas projects in Qatar from 2006 as site engineer with one of international companies in Ras Laffan City.

From 2012, he worked on roads & infrastructure projects with the same international contractor, then in 2019, he joined Ashghal as Risk manager and now with one of leading consultants in Qatar as Risk Manager in Roads Program management.

Eng. Suhaib holds RMP (Risk Management Professional) and PMP (Project Management Professional) certificates from PMI and member since 2014, in addition to the CCP certificate from American Association of Cost Engineers.

THE DEPARTMENT OF CIVIL AND ARCHITECTURAL ENGINEERING INVITES YOU TO ATTEND THE INDUSTRIAL WORKSHOP ENTITLED

Risk Identification and Management process

DAY & DATE: Tuesday, 24 August 2021

VENUE: Online (link will be sent to those with confirmed registration).
Registration: [Please click here](#) (or scan the QR code)

SCHEDULE OF WORKSHOP:

6:30pm: Start of workshop
7:15pm: Q&A session
7:30pm: End



ABSTRACT

The presentation will start about the definition of risk management and why it is important. It will then provide information about proactivity in risk thinking, improved project control through risk management, then will speak about risk and issue differences, with some examples. The presentation will provide a summary about approach to implement risk management in projects; including the risk register and type of risks with the classification. The process of risk management as globally applied, then showing the P/I matrix and how to classify the risks. The presentation will focus at the end on different methods of how to mitigate the risks showing the methods applied in projects. The presentation will be concluded by providing a summary about one system currently used to implement the risk management.

For enquiries, please email chul@qu.edu.qa

Constructing the Future Entertainment Destination in Qatar.

The Civil & Architectural Engineering Department in the College of Engineering at Qatar University in collaboration with Qetaifan Projects, Engineering Australia and Qatar Society of Engineers held a workshop titled: “Constructing the Future Entertainment Destination in Qatar” on December 14, 2021.

Presenter:



Eng. Mustafa El Chenawi
Assistant Construction Manager
Qetaifan Projects

Eng. Mustafa is chartered professional civil engineer with Engineers Australia (EA) and Institution of Civil Engineers (ICE-UK). He holds a Diploma of Science & Engineering with distinction from UTS/RESEARCH, a Bachelor of Civil Engineering with Honors from the University of Technology Sydney (UTS), and a Master of Civil Engineering from the University of Sydney (USYD). Moreover, he is registered engineer in Doha and Beirut.

Mustafa has more than 9 years of experience in the construction field in Australia and Qatar. Mustafa has been working on different multi-billion megaprojects in Doha. Currently he is an assistant construction manager at Qetaifan Projects, working on a prestigious mega development. Moreover, Mustafa worked with AECOM on the Doha Qada 7:00 hotel tower, shopping mall and amusement theme park.

Mustafa is a valued member of the community, he is a recipient of the Elizabeth Hasting memorial award for community contribution from UTS, previous nominee for best international student in NSW Award. Finalist for the young professional engineer of the year 2020 award (Australia), winner of the 2018 UTS/RESEARCH alumni award. He is the past president and a valued member of Engineers Australia Qatar Chapter (EAQC) 2019-2020.



The Department of Civil & Architectural Engineering at the College of Engineering in Qatar University in collaboration with Qetaifan Projects, Engineering Australia and Qatar Society of Engineers cordially invite you to the workshop:

Constructing the Future Entertainment Destination in Qatar

DAY & DATE: Tuesday, December 14, 2021

VENUE: Online (Event link will be shared upon registration).

REGISTRATION: [Please click here](#)

SCHEDULE OF WORKSHOP:

6:30pm: Start of workshop
7:15pm: Q&A session
7:30pm: End

ABSTRACT

Off the coast of Qatar's Lusail City is Qetaifan Island North, an under-construction state of art mixed-used project aimed to become Qatar's next iconic attraction, spans over 1.3 million m2. A prestigious project that features hotel, retail plaza, festival plaza, beach club, canal, mosque, linearpark and a waterpark that includes an "Icon Tower" the tallest water slide in the world on a reclaimed man-made island.

The presentation will give an overview about the project components, packages, phases and its construction aspects and challenges. It will overview the construction methodologies, challenges, logistic, interface, safety, environment, traffic, stakeholders etc.

For enquiries, please email civil@qu.edu.qa

Accounting for Health and Safety in Temporary Works Design Management

Eng. Umar Puthukkudi HSE Manager-Highway Projects Department, Ashghal, Eng. Ryan Palpal Latoc Geronimo Safety Engineer-Highway Projects Department, Ashghal and Eng. Noushad Moideenkutty Safety Engineer-Highway Projects Department, Ashghal, delivered a presentation on "Accounting for Health and Safety in Temporary Works Design Management." on November 8, 2021.



Overview of Site Development Plans Requirements

Dr. Mohammad Shareef Ghanim, Transportation Engineering Expert, from Ministry of Transport-Land Transport Planning Department, Delivered a presentation entitled: Overview of Site Development Plans Requirements on April 25, 2022



Steel, From Idea to Reality presentation

Eng. Firas Haitham from Etihad Steel Factory delivered a presentation titled “Steel, From Idea to Reality” on November 24, 2021, in class of Design of Steel Structures.

Introduction to the Intelligent Transport Systems (ITS) presentation:

Eng. Motasem Meqdad from WSP Delivered a presentation titled “Introduction to the Intelligent Transport Systems (ITS)” The presentation was held on November 15, 2021 in class of Traffic Engineering.



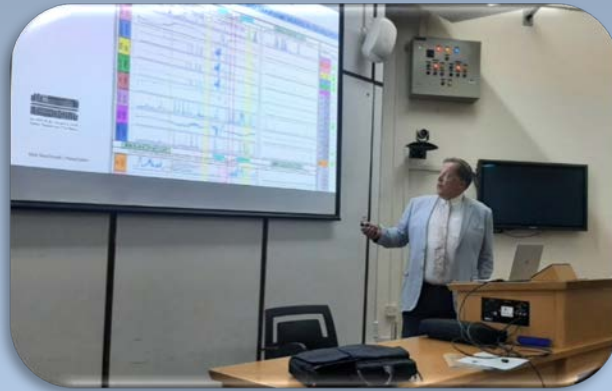
Dr. Dila Ersenkal from Mott Macdonald presenting to the students about Environmental Impact Assessments in class of Selected Topics in Environmental Engineering on April 5, 2022



Eng Rameshbabu Settypalli from Mott Macdonald Company presenting to the students about PPPs (Public Private Partnerships) on April 19, 2022



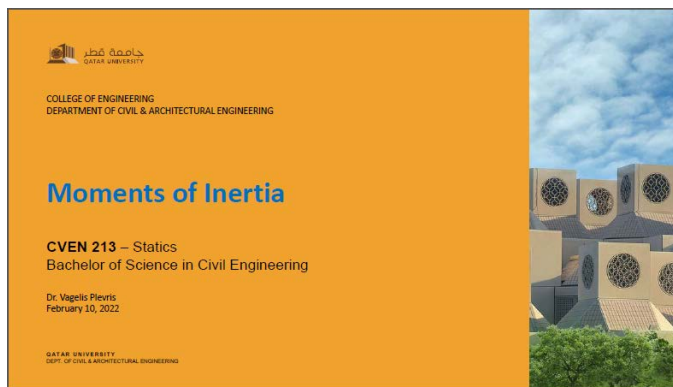
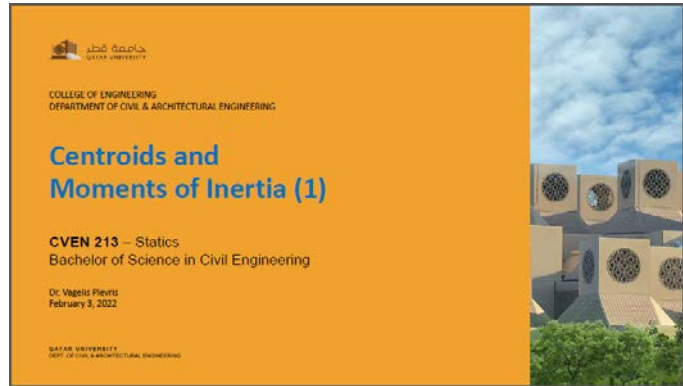
Mr. Gary Peach Delivered a presentation on Musameer Pumping Station and Outfall (MPSO) Project with an overview of all aspects for management on March 29, 2022



Eng. Michael Cowan from Qatar Rail Delivered a presentation titled "Railway Trackwork – A Client's Perspective" The presentation was held on November 17, 2021.



Three lectures on "Important topics in civil engineering", that took place on Tuesday Feb 1 titled: (friction), 2022, Feb 3 2022 titled (Centroids Moments of Inertia) and on Feb 10 2022 titled: (Moments of inertia), for course CVEN 213.



Environmental Engineering in Practice: Green Energy and Environmental Services Company Experience.

Eng. Amar El Awad from Green Energy and Environmental Services Delivered a presentation titled: "Environmental Engineering in Practice: Green Energy and Environmental Services Company Experience" The presentation was held on November 16, 2021 in class of Analysis and Design of Hydraulic Systems.



Construction Dewatering In Qatar- Current Practice and New Developments

The Civil & Architectural Engineering Department at Qatar University organized a workshop titled: “Construction Dewatering in Qatar- Current Practice and New Developments” on May 24, 2022.



CONSTRUCTION DEWATERING IN QATAR- CURRENT PRACTICE AND NEW DEVELOPMENTS

Day: Tuesday 24. May 2022 Time: 07:00pm - 09:00pm Venue: Qatar University Building H10 Auditorium

SPEAKERS



PROF. HISHAM EID
Professor of Civil Engineering,
Qatar University



DR. MOHAMMED ELSHAFIE
Associate Professor of Civil
Engineering
Qatar University



MR. BARRY O'SULLIVAN
Engineering Director of
HYDROSERV International
Doha, Qatar

ABSTRACT:

Construction dewatering is an essential activity required for many building and infrastructure projects in Qatar. The performance of such activity mainly depends on the suitability of the dewatering system to the existing hydrogeological conditions and the accuracy of estimating the permeability of the material to be dewatered. In case of rock masses, permeability is difficult to be identified from conventional site investigation works. Accordingly, the observation (trial and error) method is typically used for design of these systems. Such practice could have significant financial and environmental effects.

This workshop presents the results of a recent investigation* that seized the unique opportunity of acquiring the most extensive data base ever available on the permeability of randomly fractured rock and the associated performance of dewatering systems. The data have been provided by two major international firms working in Qatar, and used by the presenters to develop a novel and efficient approach for estimating the permeability of randomly fractured rock masses. Consequently, a major modification is suggested for the guidelines currently used in practice for choosing and designing dewatering systems in rock.

*Funded through: NPRP 125-0314-190366

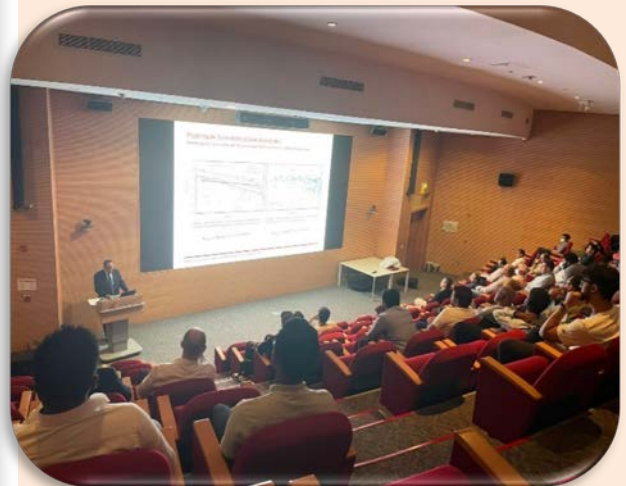
SESSION 1: CONSTRUCTION DEWATERING IN PRACTICE – QATAR EXPERIENCE
Speaker: Barry O'Sullivan

SESSION 2: A NOVEL DATA-DRIVEN APPROACH TO ESTIMATE ROCK PERMEABILITY AND DEVELOP GUIDELINES FOR DESIGN OF DEWATERING SYSTEMS
Speaker: Prof. Hisham Eid & Dr. Mohammed Elshafie



SCAN FOR REGISTRATION

NOTE: Confirmation emails along with location and parking details will be sent upon registration.



Events:

Karak and PM in 60 min or Less

“Karak and PM in 60 min or Less” event was held on October 26, 2021. The event hosted three speakers representing major organizations in Qatar, Ms. Shaikha Basahal Head of Training and Organizational Development in Public Works Authority (Ashghal) , Eng. Majed Al Shammari Senior Project Engineer Qatar General Electricity & Water Corporation (Kahramaa) and Ms. Dana Al-Kubaisi Talent Development Specialist in (Vodafone Qatar).



Sustainability of Reinforced Concrete Structures -Event

The Moderator Prof. Usama Ebead along with the speakers:

- Dr.Wael Alnahhal
- Dr.Mohammed Irshidat
- Dr.Sami Al-Ghamdi
- Mr. Sabir Khan
- Dr. Mohamed Mohsen

Delivered a presentation on “Sustainability of Reinforced Concrete Structures” on Sunday November 21 2021 in Research Complex Auditorium – Qatar University.

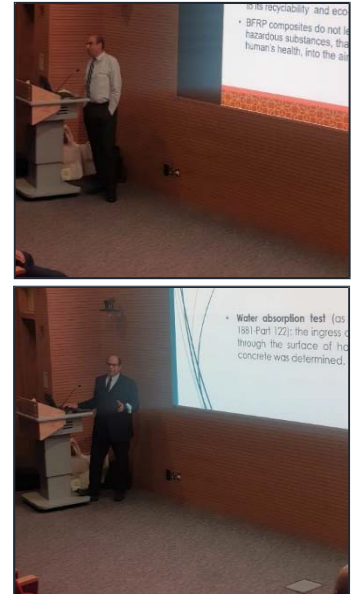
The Department of Civil & Architectural Engineering in the College of Engineering at Qatar University Cordially Invites you to the Workshop on:

"Sustainability of Reinforced Concrete Structures"

Day: Sunday, November 21, 2021 | Time: 6:00pm - 8:00pm | Location: Research Complex Auditorium, H-10, Qatar University

Moderator:
 Prof. Usama Ebead
 Professor, Civil and Architectural Engineering Department, Qatar University

Speakers:
 Dr. Wael Alnahhal, Associate Professor, Civil and Architectural Engineering Department, Qatar University
 Dr. Mohammed Irshidat, Associate Professor, Acting Director of Center of Advanced Materials (CAM), Qatar University
 Dr. Sami G. Al-Ghamdi, Associate Professor of Sustainable Built Environment, College of Science & Engineering, Imam Bin Khalifa University (IBKU)
 Dr. Mohamed Mohsen, General Manager, Alshabab Khasa Contracting (AKC)
 Mr. Sabir Khan, Technical Manager, Rodiyah Qair



Presentation to Foundation Students - Fall 2021

The Department of Civil and Architectural Engineering organized “Presentation to Foundation Students” event to introduce the field of Civil Engineering and to share some introductory materials about the field of Civil Engineering to the foundation students. The event was held on Monday 20 September 2021.

تقديم عرض تقديمي لبرنامج الهندسة المدنية بجامعة قطر
المكان: [نقر هنا للانضمام الى العرض التقديمي](#)
الوقت: 1:30-12:30 يوم الإثنين 20 سبتمبر 2021

أهلاً طلابنا،
 السلام عليكم ورحمة الله وبركاته.
 نود أن نعلن عن تنظيم عرض تقديمي خاصاً بالتعرف على مجال الهندسة المدنية والتي نهدف من خلالها لتجميع الطلاب بين المجال الهندسي المثير.
 نود أيضاً من خلال التواصل معكم اليوم ونحن الفخورين أن نقدم لكم بعض المواد التوعوية عن مجال الهندسة المدنية. يمكنك التعرف أكثر على مجال الهندسة المدنية من خلال الفيديو التالي (انقر على الصورة أعلاه لمشاهدة الفيديو).

Dear Students,
 Greetings,
 We are pleased to invite you to attend a special event to introduce the field of civil engineering. We are also pleased to share with you some introductory materials about the field of civil engineering. You can learn more about civil engineering by clicking on the picture to watch the video below:

We are also pleased to offer you introductory videos with some civil engineering graduates to show the promising opportunities for graduates after completing their studies.

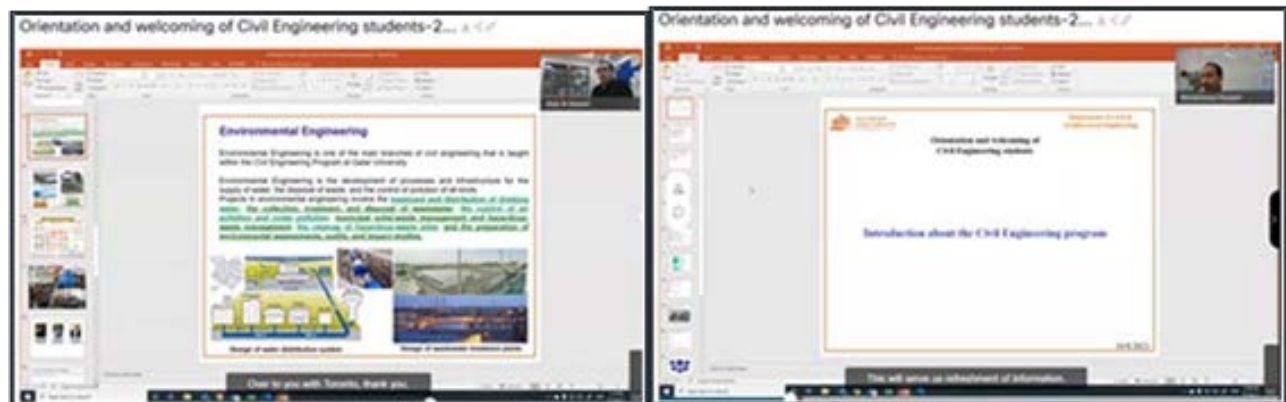
نود أيضاً أن نقدم لكم قوائم تعريفية مع بعض خريجي الهندسة المدنية بجامعة قطر للتعرف أكثر على المجال المثير والفرص الواعدة بعد تكميل الدراسة.

Orientation and Welcoming Event for Civil Engineering Students

The Orientation and Welcoming of Civil Engineering students was held Online on Monday 16 August 2021, It started with a welcome message by the Dean of the College of Engineering Dr. Khalid Kamal Naji, and then a video was projected about the Civil Engineering Program as described by Civil Engineering students, after the video The CAE Head of Department Dr. Mohammed Hussein presented an introduction about the Civil Engineering program, Followed by Information about topics within the Civil Engineering program:

- Structural Engineering, Dr. Wael Alnahhal
- Geotechnical Engineering, Dr. Hisham Eid
- Environmental and Water Engineering, Dr. Alaa Al-Hawari
- Construction Management, Dr. Murat Gunduz
- Pavement and Transportation Engineering, Dr. Okan Sirin

The orientation ended with Announcement of upcoming Activities, Promotional video for Civil Engineering and Honoring Students who Attended Civil Engineering Department Workshops.



CENG's Recognition and Networking Day

The recognition and networking event was organized by the College of Engineering on Tuesday, May 24, 2022.

The event contained a career fair for engineering students where they had excellent opportunity to interact with potential employers.





9th Wooden Bridge Competition

The Department of Civil and Architectural Engineering organized the 9th High School Wooden Bridge Competition (HSWBC) to motivate students to join the field of engineering in general and civil engineering in particular. Teams of high school students constructed bridge models using sticks and glue as per the instructions and guidelines provided by the faculty and staff during their visit to the school as part of the outreach program. The competition aims to equip secondary school students with the main skills of civil engineering and to enable them to test, design and build small bridges of different usages. On the final day of the competition, loads were applied at the center of each bridge to measure how much load each bridge can withstand. The team with the largest load Carrying Capacity Bridge would win the first place. **Twenty-one Independent High Schools** participated in the competition.



The Winner is!

SR.NO	School Name	Position
1	Qatar Banking Studies & Business Administration Secondary School	1 st Place
2	Ibn Taymiyyah Secondary School	2 nd Place
3	Mohammed bin Abdulaziz Al Mana Secondary School	3 rd Place



Senior Design Competitions



Senior Design Poster Competition Fall 2021:

The Senior Design –II Poster Competition Fall 2021 Contest was held on the 15th of Nov 2021. Students presented their projects to the jury members as well as to internal and external examiners. Here are the details of the winners:

Positions		Student ID	Students name	Supervisors	Project Title
1 st	1	201702950	Faisal Al-Qahtani	Dr. Arslan Ayari	Designing a Sustainable Student Activity Centre
	2	201702009	Abdelwahab Mohamed		
	3	201208469	Eisa Al-Mohannadi		
	4	201511407	Amr Kamar		
2 nd	1	201709100	Mohammed Abul Fahed	Dr. Usama Ebead	Analysis and Design of a 10-story Residential Building (Hotel)
	2	201707136	Abubakar Mohamud		
	3	201601422	Nooreldeen Abdelfattah		
	4	201707661	Al-Harith Umlai		
3 rd	1	201704656	Obadah Dahdal	Dr. Deepti Muley	Improvement of an Existing Intersection, Al- Matar Street/C-Ring Road Intersection
	2	201706148	Mohammad Abdulhameed Sakhid Shah		
	3	201703146	Ahmed Talal Al-hetmi		
	4	201401894	Saoud Alshamsi		

Senior Design –II Contest Fall 2021:

The Senior Design –II Fall 2021 Contest was held on the 18th of Nov 2021. Five groups participated in this competition. Students presented their projects to the jury members as well as to internal and external examiners. Here are the details of the winners:

Positions		Student ID	Students name	Supervisors	Project Title
1 st	1	201709100	Mohammed Abul Fahed	Dr. Usama Ebead	Analysis and Design of a 10-story Residential Building (Hotel)
	2	201707136	Abubakar Mohamud		
	3	201601422	Nooreldeen Abdelfattah		
	4	201707661	Al-Harith Umlai		
2 nd	1	199602666	Ahmad Mohammed Al-Hitmi	Dr. Riyadh Al-Raoush	Design of Water Distribution Networks
	2	199606351	Abdulaziz Alyafei		
	3	201512081	Omar Askar		
	4	201301422	Mohamed Elemam		
3 rd	1	201702950	Faisal Al-Qahtani	Dr. Arslan Ayari	Designing a Sustainable Student Activity Centre
	2	201702009	Abdelwahab Mohamed		
	3	201208469	Eisa Al-Mohannadi		
	4	201511407	Amr Kamar		

Senior Design-II Poster Competition - Spring 2022

The Senior Design –II spring 2022, Contest was held on the 18th of April 2022. Five groups participated in this competition. Students presented their projects to the jury members as well as to internal and external examiners. Here are the details of the winners:

Position	Student ID	Student Name	Primary Instructor	Project
1st	1	201704358	Dr. Mohammed Elshafie	Qatar University Auditorium
	2	201701803		
	3	201707933		
	4	201709557		
	5	201517621		
2nd	1	201704030	Dr. Riyadh Al-Raoush	Design of a Landfill for Municipal Waste generated from Umm Salal-Muhamed
	2	201701551		
	3	201802513		
	4	201517950		
3rd	1	201509936	Dr. Charitha Dias and Dr. Shahram Tahmasseby (QTTSC)	Last mile connectivity by Active and Micro-mobility Transportation Modes to Qatar University
	2	201707600		
	3	201609079		
	4	201105028		
	5	201403786		



Senior Design-II Poster Competition - spring 2022

Senior Design –II Contest Spring 2022:

The Senior Design –II Fall 2021 Contest was held on the 20th of April 2022. seven groups participated in this competition. Students presented their projects to the jury members as well as to internal and external examiners. Here are the details of the winners:

Rank	QU Number	NAME		Program
1st	201702990	Abdulrahman Doleh	Dr Vagelis Plevris	Analysis and Design of a large-scale civil engineering structure
	201704376	Tarik Abouselo		
	201701601	Tarek Sabahie		
	201708750	Anas Gavoci		
2nd	201703076	Mahmoud Mohammed	Dr. Wael Alnahhal	Alternative Design for the College of Engineering at Qatar University.
	201705105	Omar Elbehiry		
	201708369	Badran Mansour		
	201803048	Omar Ibrahim		
3rd	201704320	Karim Ibrahim	Dr. Mohammed Salem Al-Ansari	Analysis and Design of High Rise Building
	201603887	Hassan Aldaname		
	201800432	Firas abousido		
	201800848	Amr Elsherif		



Senior Design –II Fall 2021 Contest was held on the 20th of April 2022

Spaghetti-Marshmallow Tower Competition – 2022

“The Spaghetti - Marshmallow Tower Competition” organized by the Department of Civil and Architectural Engineering at Qatar University was held on Tuesday, March 22, 2022, at Ibn Khaldoun Hall. In this Competition, students need to build the highest possible tower using two bags of spaghetti and three bags of marshmallows during the 9th HSWBC 2022.



*And the
Winners
are...*



No.	Student names
1	Abdulrahman Doleh
2	Tarek Sabahie
3	Anas Gavoci

Outreach Activities

The Department of Civil and Architectural Engineering outreached for high school students. Visits to Al Wakra, Omar Bin Al-Khatab, Musaab Bin Omair, Hassan Bin Thabit high schools were organized during the academic year 2021. The visits aimed at giving detailed information about the Engineering Programs at Qatar University and to highlight the importance and roles of Civil Engineers in the society to high school students in Qatar.



Build Your House Exhibition

The Department of Civil and Architectural Engineering Participated in the Second Edition of “Build Your House Exhibition” on 20-22nd Sep 2021 at QNCC.



Field Trips:



Construction site visit to Al Mamoura Mosque on November 13, 2021, organized by ASCE.



Construction site visit to a warehouse building under construction on October 9, 2021.



Doha North Sewage Wastewater Treatment Plant site visit on March 24, 2022 and March 31, 2022.

Site visit to Ashghal PWA-RPD Enhanced Projects was on 30-31 March 2022



Media Publicity



Dr. Alaa AlHawari, guest in TV program, Qatar TV, 13 of Mar. 2022 to talk about the contribution of the department in Qatar International Agricultural and Environmental Exhibition 2022.



Dr. Al-Raoush, Alarab, 23 Aug 2021



Dr. Alnahhal, Al-Raya 4 Dec



Al-Watan, 12 April 2022



Dr. Alraoush, Alsharq 2021



Lusail- 16 March 2022



Alraya- 4 March 2022



Dr. Alraoush, Alarab, 23 Aug 2021



SUBJECT RANKING

The Civil & Structural Engineering at the Department of Civil and Architectural Engineering is moving up in the **QS World University Subject Ranking**, the Civil & Structural Engineering subject is ranked among the top **151-200** universities in the world.

QS WORLD UNIVERSITY RANKINGS	
Environmental Sciences	351-400
Medicine	301-350
Economics & Econometrics	401-450
Chemistry	401-450
Biological Sciences	401-450
Theology, Divinity & Religious Studies	101-130
Engineering - Civil & Structural	151-200
Materials Science	301-350
Mathematics	401-450
Law	201-250
Sports-related Subjects	101-130



The Department of Civil and Architectural Engineering is ranked among the top **151-200** universities in the world in the **Shanghai Ranking**.



Collaboration with the Public Works Authority (Ashghal)

The Department of Civil and Architectural Engineering with strong support from the College of Engineering continued the collaboration with Ashghal. The main highlights of the collaboration in the academic year 2021-2022 are:

- ✦ The establishment of **Ashghal Chair Position** in the area of use of recycled materials in infrastructure projects.
- ✦ The development of **new certificate** in the area of **Infrastructure Construction**.
- ✦ The collaboration in lab development including the support provided by the Quality and Safety Department in Ashghal to the Department of Civil and Architectural Engineering in the inter-lab exercise.
- ✦ The support of student training and industrial workshops for students and engineers in Qatar.
- ✦ The effort on student outreach and the participation of Qatar University Civil Engineering Alumni from Ashghal in various outreach activities including the development of video materials and the participation in events to talk to high school students.
- ✦ The joint work on organization of major conferences including the start of planning for the next version of the **International Conference on Civil Infrastructure and Construction**.



STUDENT SUCCESS STORIES



The Civil Engineering PhD student, Tadesse Wakjira supervised by Prof. Usama Ebead won Qatar University Research Poster Award in Information & Communication Technologies – Graduate students, his main contribution was developing machine learning based predictive models for Qatar Metro ridership considering built environment, and he developed a web-based application based on the optimized machine-learning model. The honoring ceremony was held on October 20, 2021.

Mohamed Amin Babiker Ibrahim, a Ph.D. candidate from the Department of Civil and Architectural Engineering supervised by Prof. Usama Ebead, was sponsored by the American Concrete Institute (ACI) Foundation to attend the convention and participate in an international competition at the Spring ACI Concrete Convention in Orlando, Florida USA, which took place from March 27-30, 2022. He ranked among the top two candidates for the ACI Foundation Middle East & North Africa Fellowship Award.



The civil engineering students Ahmad Zara and Mustafa Ibrahim won the English debate held at Qatar University on April 6 2022.



Honoring civil students who won in Senior Design contest in CENG's Recognition and Networking Day event, the event was held on May 24, 2022.



External and Internal Grants

<i>Project Number</i>	<i>Project Title</i>	<i>LPI/PI</i>
<i>MME01-0906-190024</i>	Sustainable Agriculture in Arid Climate	Dr. Alaa Al Hawari
<i>NPRP14S-0317-210064</i>	Multi-layered hierarchically porous membranes for high-quality wastewater treatment for irrigation purposes	Dr. Alaa Al Hawari
<i>UREP28-242-2-066</i>	Mechanical and durability properties of sustainable concrete incorporating recycled aggregates, fly ash, and basalt fibers	Dr. Wael Alnahhal
<i>QUCG-CENG-22/23-561</i>	Sustainable concrete using locally discarded Materials and Treated Domestic wastewater: Mechanical, Durability and Applications in RC	Dr. Wael Alnahhal
<i>QUCG-CENG-22/23-492</i>	Developing Magnetic nanoparticles draw solution for the reclamation of municipal wastewater using forward osmosis for irrigation of food crops	Dr. Alaa Al Hawari
<i>QUEX-CENG-QR-21/22-1</i>	Control of Ground-borne Noise and Vibration from Doha Metro	Dr. Mohammed Hussein
<i>QUHI-CENG-2022-517</i>	Pore scale investigation of the dynamics of contact angles for geological carbon sequestration	Dr. Riyadh Alraoush

FACULTY NEWS AND ACHIEVEMENTS

- ✚ Dr. Mohamed Ayari has been promoted to Associate Professor in Civil Engineering.
- ✚ Eng. Anas Alsharo has been promoted as Teaching Assistant from grade G to grade F
- ✚ Dr. Usama Ebead and Dr. Mohamed Ayari are currently jointly affiliated with Technology Innovation and Engineering Education (TIEE) unit.
- ✚ New industrial members have joined the Industrial Advisory Board of the department: Eng. Salem Mohd Al-Marri, Public Works Authority (Ashghal); Eng. Ibrahim Abbas Hassan, Ministry of Municipality; Eng. Khalid AlHitmi, Barwa Real Estate Group, Eng. Hassan Ahmed Al-Marwani, Qatar Rail
- ✚ Thanks to industrial members who left the Industrial Advisory Board of the department: Dr. Ammar Thannon Al Nuaimi, the Private Engineering Office; Dr.Khaled Al-Akhras, the Ministry of Municipality and Environment; Dr. Nourddin I.Daas, Qatar General Organization for Standardization.

DEPARTING MEMBERS

The Department of Civil and Architectural Engineering would like to thank two of its Faculty members, namely Prof. Mohammed Al-Ansari and Eng. Muhammad Shekaib Afzal and one of its Staff members Mrs. Aisha Alkuwari for their hard work and efforts in the department. The Department wishes them best of luck in their future endeavors.



Prof. Mohammed Al-Ansari



Eng. Muhammad Shekaib Afzal

Squash Tournament 2022

The Qatar University (QU) Squash Tournament 2022 took place on 29 and 30 March 2022. This event was held at QU Sports Complex (A-07). Both students and faculty from QU participated in the event. There were 12 participants in total. Eng. Shekaib from Civil and Architectural Engineering Department won first place.



-Eng. Shekaib in squash Tournament 2022

Football Tournament 2022

The First Civil Engineering Football Tournament was organized on March 31, 2022, at the Sports Complex by the ASCE (American Society of Civil Engineers) and ICE (Institution of Civil Engineers) student chapters at Qatar University. The tournament featured eight teams comprised of students and faculty members from the Civil and Architectural Engineering department. The tournament ended with presenting the medals and the cup to the winning team named "Trusses" including Moumen Sarikozal, Mohammed Al Lulu, Amr Elsherif, Firas Abousido, Mohamed Elemam, and Karim Ibrahim.



Football Tournament 31, Mar2022